

ART. VII.—*Additions to the Catalogue of the Marine Shells of Victoria.*

BY

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AND

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[Read 12th June, 1913].

In this paper we have made 69 additions to the catalogue, including 8 new genera, namely, *Euthria*, *Leucosyrinx*, *Eglisia*, *Phenacolepas*, *Cuspidaria*, *Ectorisma*, *Thyasira*, and *Cyrella*; 3 new species and 2 new varieties described in the preceding paper, and the total number of mollusks catalogued is 1031.

In our generic nomenclature we have used the names adopted in the earlier portions of the catalogue. There have been changes made since, and some of the alterations have not been generally adopted, we purpose dealing with this matter in a future paper.

It will interest palaeontologists to note the inclusion of *Eglisia triplicata*, hitherto only recorded as a Tertiary fossil.

TROPHON RECURVATUS, Verco.

1909. *Trophon recurvatus*, Verco. T.R.S., S.A., vol. xxxiii. p. 336, pl. 24, f. 7, 8.

1911. *Trophon recurvatus*, Verco. May, P.R.S., Tas., for 1910, p. 307.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Length, 6.7; breadth, 3 mm.

TROPHON SIMPLEX, Hedley.

1903. *Trophon simplex*, Hedley. Mem. Aust. Mus., vol. iv., p. 380, f. 93.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Length, 8; breadth, 3.8 mm.

CYMATIUM KAMPYLUM, Watson.

1883. *Nassaria kampyla*, Watson. J.L.S., Lond., vol. xvi., p. 594.

1886. *Nassaria campyla*, Watson. Chall. Zool., vol. xv., p. 405, pl. 14, f. 12.

1900. *Lampusia nodocostata*, Tate and May. T.R.S., S.A., vol. xxiv., p. 90.
1901. *Lampusia nodocostata*, Tate and May. P.L.S., N.S.W., vol. xxvi., p. 355, pl. 23, f. 2.
1902. *Lotorium nodocostatum*, Tate and May. Kesteven, Id., vol. xxvii., pp. 463, 479; f. 1 and 4.
1906. *Cymatium kampyla*, Watson. Hedley Rec. Aust. Mus., vol., vi., p. 219.

Hab.—Same as last-named species.

Obs.—Size of type: Length, 1.67; breadth, 0.8 inches.

CYMATIUM COLUMNARIUM, Hedley and May.

1908. *Cymatium columnarium*, Hedley and May. Rec. Aust. Mus., vol vii., p. 119, pl. 23, f. 15.
1908. *Cymatium columnarium*, Hedley and May, Verco, T.R.S., S.A., vol. xxxii., p. 343.

Hab.—Bass's Strait, Commonwealth trawler "Endeavour."

Obs.—Size of type: Length, 21; breadth, 8.5 mm. The identification has been confirmed by Mr. W. L. May, and we have since compared the shell with the type.

FASCIOLARIA AUSTRALASIA, Perry; var. **BAKERI**, Gatliff and Gabriel.

1912. *Fasciolaria australasia*, Perry. Var. *bakeri*, Gatliff and Gabriel. V.N., pp. 46-48, pl. 3 and 4, f. 1-7.

Hab.—Of type, Anderson's Inlet (Baker). Cape Howe, Commonwealth trawler "Endeavour"; Lakes Entrance; Port Albert (T. Worcester).

Obs.—Size of type of variety: Length, 93; breadth, 41 mm.

Genus **Euthria**, Gray, 1850.

EUTHRIA TABIDA, Hedley.

1904. *Phos tabidus*, Hedley. P.L.S., N.S.W., vol. xxix., p. 191, pl. 8, f. 18.
1907. *Euthria tabida*, Hedley. Rec. Aust. Mus., vol. vi., p. 286.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Length, 12; breadth, 5 mm.

VOLUTA PAPILLOSA, Swainson; var. **KENYONIANA**, Brazier.

1897. *Voluta kenyoniana*, Brazier. P.L.S., N.S.W., vol. xxii., p. 779.

1906. *Voluta papillosa*, Swainson. Var. *kenyoniana*, Brazier. E. A. Smith, P. Mal. Soc. Lond., vol. vii., p. 6.

1912. *Voluta papillosa* Swainson. Var. *kenyoniana*, Brazier. Verco, T.R.S., S.A., vol. xxxvi., p. 228, pl. 14, f. 2, 3.

Hab.—Cape Everard; Lakes Entrance.

Obs.—The variety is longitudinally irregularly costate, and the costae vary in number and development on different specimens. The size of the type of the variety is—length, 137; breadth, 46; altitude, 37 mm. The National Museum exhibits a specimen obtained in 70 fathoms 70 miles N.E. of the West Sisters Islands, Bass's Strait.

MITRA STADIALIS, Hedley.

1911. *Mitra stadialis*, Hedley. Zool., Commonwealth trawler "Endeavour," part I., p. 112, pl. 20, f. 37.

Hab.—Bass's Strait, Commonwealth trawler "Endeavour."

Obs.—Size of type: Length, 8.5; breadth, 3 mm.

MARGINELLA GATLIFFI, May.

1911. *Marginella gatliffi*, May. P.R.S., Tas., for 1910, p. 385, pl. 13, f. 8.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Length, 3.3; breadth, 2.5 mm. The author remarks upon its resemblance to *M. ochracea*, Angas, and states, "but is a very much broader shell, with a shorter spire." Colour, yellowish white.

MARGINELLA GABRIELI, May.

1911. *Marginella gabrieli*, May. Id., p. 386, pl. 13, f. 9.

Hab.—Dredged off Wilson's Promontory.

Obs.—Size of type: Length, 4; breadth, 2 mm. A biconical shell; white, with four orange bands. Our single specimen is slightly smaller.

DRILLIA SCHOUTANICA May.

1911. *Drillia schoutanica*, May. P.R.S., Tas., for 1910, p. 391, pl. 14, f. 17.

Hab.—Bass's Strait, Commonwealth trawler "Endeavour."

Obs.—Size of type: Length, 12.5; breadth, 5 mm.

DRILLIA SAXEA, Sowerby.

1896. *Drillia saxea*, Sowerby. P. Mal. Soc., Lond., vol. ii.,
p. 25, pl. 3, f. 4.

1909. *Drillia saxea*, Sowerby. Verco, T.R.S., S.A., vol.
xxxiii., p. 304.

1911. *Drillia saxea*, Sowerby. May, P.R.S., Tas., for 1910,
p. 308.

Hab.—Dredged off Wilson's Promontory.

Obs.—Size of type: Length, 7; breadth, 3 mm. Our single worn
and bleached specimen is rather larger.

DRILLIA LACTEOLA, Verco.

1909. *Drillia lacteola*, Verco. T.R.S., S.A., vol. xxxiii.,
p. 304, pl. 26, f. 5.

1911. *Drillia lacteola*, Verco. May, P.R.S., Tas., for 1910,
p. 308.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Length, 4.8; breadth, 2.1 mm.

DRILLIA NENIA, Hedley.

1903. *Drillia nenia*, Hedley. Mem. Aust. Mus., vol. iv.,
p. 387, f. 101.

1909. *Drillia nenia*, Hedley. Verco, T.R.S., S.R., vol.
xxxiii., p. 300.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Length, 6.6; breadth, 2.5 mm. Compared
by us with the type.

Genus *Leucosyrinx*, Dall, 1889.*LEUCOSYRINX RECTA*, Hedley.

1903. *Leucosyrinx recta*, Hedley. Mem. Aust. Mus., vol.
iv., p. 386, f. 99.

1911. *Leucosyrinx recta*, Hedley. May, P.R.S., Tas., for
1910, p. 308.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Length, 6; breadth, 2.5 mm.

DAPHNELLA TRISERIATA, Verco.

1909. *Daphnella triseriata*, Verco. T.R.S., S.A., vol.
xxxiii., p. 325, pl. 28, f. 8.

Hab.—Same as the preceding species.

Obs.—Size of type. Length, 4.6; breadth, 2.4 mm. The shell has seven unequal spiral lirae encircling the penultimate whorl, the intervening spaces being crowded with very fine axial striae, which ascend obliquely inclined to the right. Our identification has been kindly confirmed by Dr. Verco by comparison with his type.

NATICA SCHOUTANICA May.

1912. *Natica schoutanica*, May. P.R.S., Tas., p. 45, pl. 2, f. 3.

Hab.—Bass's Strait, Commonwealth trawler "Endeavour."

Obs.—Size of type: Diameter, major, 5.5, minor 4.5; height, 5 mm.

TURRITELLA MICROSCOPICA, May.

1911. *Turritella microscopica*, May. P.R.S., Tas., for 1910, p. 395, pl. 15, f. 23.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Length, 3.5; breadth, 1 mm.

CAPULUS DEVOTUS, Hedley.

1904. *Capulus devotus*, Hedley. P.L.S., N.S.W., vol. xxix., p. 190, pl. 8, f. 15, 16.

Hab.—Same as the preceding species.

Obs.—Size attaining to: Height, 7; base, diameter, 7 mm.

CYCLOSTREMA HOMALON, Verco.

1907. *Cyclostrema homalon*, Verco. T.R.S., S.A., vol. xxxi., p. 305, pl. 29, f. 3, 4.

Hab.—Dredged off Wilson's Promontory.

Obs.—Size of type: Largest, diam., 2.7; smallest, 2; height, 1 mm.

CROSSEA NATICOIDES, Hedley.

1907. *Crossea naticoides*, Hedley. Rec. Aust. Mus., vol. vi., p. 290, pl. 54, f. 6, 7.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Height, 2.35; width, 3 mm. Shell smooth. "Umbilicus deep and narrow, its margin a faint basal funicle. Aperture entire, circular."

CROSSEA CARINATA, Hedley.

1903. *Crossea carinata*, Hedley. Mem. Aust. Mus., vol. iv., p. 345, f. 71.

Hab.—Same as the preceding species.

Obs.—Size of type: Height, 1.7; width, 1.8 mm. “Shell smooth and glossy. . . . Aperture subcircular.”

Genus *Eglisia*, Gray, 1840.

EGLISIA TRIPLICATA, Tate.

1890. *Scalaria* (*Eglisia*) *triplicata*, Tate. T.R.S., S.A., vol. xiii., p. 231.

1892. *Scalaria triplicata*, Tate. Id. supp., pl. 9, f. 2.

1897. *Eglisia triplicata*, Tate. Harris, Cat. Tertiary Moll., B.M., part I. Australasian Tertiary Moll., p. 270.

Hab.—Port Albert (T. Worcester).

Obs.—Size of type: Length, 28; breadth, 7 mm. About one-half of our single specimen, being the earlier portion, is missing, the size of the remainder is: Length, 15; breadth, 6.5 mm. We have compared it with fossil specimens in the National Museum, obtained from Muddy Creek (Miocene), and consider it to be the same species. The palaeontologist, Mr. F. Chapman, concurs in this decision.

CINGULINA INSIGNIS, May.

1911. *Cingulina insignis*, May. P.R.S., Tas., for 1910, p. 396, pl. 15, f. 24, 24a.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Length, 11.5; breadth, 2.8 mm.

TURBONILLA TIARA, May.

1911. *Turbonilla tiara*, May. Id., f. 25, 25a, 25b.

Hab.—Same as last-named species.

Obs.—Size of type: Length, 9; breadth, 2 mm.

ODOSTOMIA NUGATORIA, Hedley.

1903. *Odontostomia nugatoria*, Hedley. Mem. Aust. Mus., vol. iv., p. 363, f. 87.

Hab.—Same as last-named species.

Obs.—Size of type: Length, 2.2; breadth, 1 mm.

RISSEA IRAVADIOIDES, Gatliff and Gabriel.

1913. *Rissoa iravadioides*, Gatliff and Gabriel. Antea page 67.

Hab.—Dredged off Wilson's Promontory; also in 8 to 10 fathoms Western Port.

RISSOA JANJUCENSIS, Gatliff and Gabriel.

1913. *Rissoa janjucensis*, Gatliff and Gabriel. Antea page 67.

Hab.—Jan Juc, Puebla coast in shell sand; also dredged in 8 to 10 fathoms, Western Port.

RISSOA VERCONIS, Tate; var. APICILATA, Gatliff and Gabriel.

1913. *Rissoa verconis*, Tate var. *apiculata*, Gatliff and Gabriel. Antea page

Hab.—Dredged in 6 to 8 fathoms, Western Port; Port Albert (T. Worcester).

RISSOA WILSONENSIS, Gatliff and Gabriel.

1913. *Rissoa wilsonensis*, Gatliff and Gabriel. Antea page 68.

RISSOA RUBICUNDA, Tate and May.

1900. *Rissoia (Cingula) rubicunda*, Tate and May. T.R.S., S.A., p. 100.

1901. *Rissoia rubicunda*, Tate and May. P.L.S., N.S.W., vol. xxvi., p. 393.

1902. *Rissoia rubicunda*, Tate and May. May, P.R.S., Tas., p. 114, f. 13.

1911. *Amphithalamus rubicundus*, Tate and May. Hedley, Zool., Commonwealth trawler "Endeavour," part I., p. 107.

Hab.—Western Port (T. Worcester).

Obs.—Size of type: Length, 2.5; breadth, 1 mm.

RISSOA PYRAMIDATA, Hedley.

1903. *Scrobs pyramidatus*, Hedley. Mem. Aust. Mus., vol. iv., p. 354, f. 77.

1911. *Amphithalamus pyramidatus*, Hedley. Zool. Commonwealth trawler "Endeavour," part I., p. 107.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Length, 2.1; breadth, 1.4 mm.

RISSOA SCHOUTANICA, May.

1912. *Rissoa schoutanica*, May. P.R.S., Tas., p. 47, pl. 2, f. 6.

Hab.—Same as the last named.

Obs.—Size of type: Length, 2.5; breadth, 1.5 mm. Yellowish white. Body whorl encircled with three keels.

RISSEA FILOCINCTA, Hedley and Petterd.

1906. *Rissoa filocincta*, Hedley and Petterd. Rec. Aus. Mus., vol. vi., p. 217, pl. 37, f. 2.

1911. *Rissoa filocincta*, Hedley and Petterd. May, P.R.S., Tas., for 1911, p. 309.

Hab.—Same as the last named.

Obs.—Size of type: Length, 3; breadth, 1.7 mm. A very ornate species.

RISSEA AUSTRALIAE, Frauenfeld.

1867. *Rissoa australiae*, Frauenfeld. Novara, p. 14, pl. 2, f. 23.

1887. *Rissoia australiae*, Frauenfeld. Tryon, Man. Conch., vol., ix., p. 344, pl. 71, f. 81.

Hab.—Kilcunda.

RISSEA COLUMNARIA, Hedley and May.

1908. *Rissoa columnaria*, Hedley and May. Rec. Aust. Mus., vol. vii., p. 117, pl. 22, f. 9.

Hab.—Dredged off Wilson's Promontory.

Obs.—Size of type: Length, 2.6; breadth, 1.1 mm. Our examples only attain to about half this size, and the close longitudinal hair lines are less numerous.

Genus **Phenacolepas**, Pilsbry, 1891.**PHENACOLEPAS CALVA**, Verco.

1906. *Scutellina calva*, Verco. T.R.S., S.A., vol. xxx., p. 217, pl. 8, f. 9, 10.

1912. *Phenacolepas calva*, Verco. Id., vol. xxxvi., pp. 185 and 199.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Height, 2; major diam., 2.8; minor diam., 1.8 mm.

LEPIDOPLEURUS COLUMNARIUS, Hedley and May.

1908. *Lepidopleurus columnarius*, Hedley and May. Rec. Aust. Mus., vol. vii., p. 123, pl. 24, f. 27, 28.

Hab.—Bass's Strait, Commonwealth trawler "Endeavour."

Obs.—Size of type: Length, 8; breadth, 3 mm. We have only the posterior and median valves, but the longitudinal radiating

rows of minute grains are so characteristic that the identification is readily made, and has been confirmed by us by comparison with the type.

ACANTHOCHITES KIMBERI, Torr.

1912. *Acanthochites kimberi*, Torr. T.R.S., S.A., vol. xxxvi., p. 167, pl. 6, f. 5a-f.

Hab.—Torquay.

Obs.—Size of type: Length, 10; breadth, 4 mm. We have compared our specimen with the type, which was kindly brought for examination by Dr. Torr, when he recently visited Melbourne. He concurred in our identification. The figure is correct in showing four tufts round the head plate, the description erroneously states that there are five. Our specimen has eight plates, but we can only see seven in the figure.

ACANTHOCHITES EXILIS, Torr and Ashby.

1898. *Acanthochites exilis*, Torr and Ashby. T.R.S., S.A., p. 218, pl. 7, f. 6.

Hab.—Dredged, Western Port.

Obs.—Size of type: Length, 3; breadth, 1mm. Dr. Torr has confirmed our identification, and states that "The whole shell is much more deeply coloured than the South Australian type, which is porcelain-white. The Victorian specimen is flesh-coloured (pinkish yellow), and the dorsal area of the third valve is not so brightly coloured as ours, yet it gives evidence of a deeper stain than the rest of the valves." Our single specimen measures 7×3 mm.

BULLINELLA PROTUMIDA, Hedley.

1903. *Cylichna protumida*, Hedley. Mem. Aust. Mus., vol. iv., p. 396, f. 112.

Hab.—Dredged off Wilson's Promontory.

Obs.—Size of type: Length 5.4; breadth, 2.3 mm. May be distinguished readily from our other species by its being "inflated rather suddenly at the anterior third, rounded anteriorly, obliquely truncated at the vertex."

BULLINELLA PYGMAEA, A. Adams; var. *SCULPTA*, Gatliff and Gabriel.

1913. *Bullinella pygmaea*, A. Adams, var. *sculpta*, Gatliff and Gabriel. Antea page 69.

Hab.—Same as preceding species.

DENTALIUM VIRGULA, Hedley.

1903. *Dentalium virgula*, Hedley. Mem. Aust. Mus., vol. iv., p. 328, f. 62.

1911. *Dentalium virgula*, Hedley. Verco, T.R.S., S.A., vol. xxxv., p. 209.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Length, 10.5; breadth at aperture, 1.1., at apex 0.62; diameter of tube, 0.2 mm. Identification confirmed by us by comparison with the type.

CADULUS GIBBOSUS, Verco.

1911. *Cadulus (Polyschides) gibbosus*, Verco. T.R.S., S.A., vol. xxxv., p. 213, pl. 26, f. 6.

Hab.—Same as preceding species.

Obs.—Size of type: Length, 9.7; greatest diameter 1.8; diam. of the posterior end, .45; of the anterior end, 1.1 mm. Our specimens are immature, but the identification has been confirmed by Dr. Verco.

CADULUS SPRETUS, Tate and May.

1900. *Cadulus (Gadilia) spretus*, Tate and May. T.R.S., S.A., vol. xxiv., p. 102.

1901. *Cadulus spretus*, Tate and May. P.L.S., N.S.W., vol. xxvi., p. 420, pl. 25, f. 52.

1903. *Cadulus spretus*, Tate and May. Hedley, Mem. Aust. Mus., vol. iv., p. 328.

1908. *Cadulus spretus*, Tate and May. Suter, Trans., New Zealand Inst., vol. xl., for 1907, p. 353.

1911. *Cadulus spretus*, Tate and May. Verco, T.R.S., S.A., vol. xxxv., p. 212.

Hab.—Same as preceding species.

Obs.—Size of type: Length, 5.5; diam. of larger aperture, .7; diam. of the smaller aperture, .3 mm. The type is in the Hobart Museum.

CADULUS ANGUSTIOR, Verco.

1911. *Cadulus angustior*, Verco. T.R.S., S.A., vol. xxxv., pp. 211 and 218, pl. 26, f. 5, 5a, 5b.

Hab.—Port Albert (T. Worcester).

Obs.—Size of type: Length, 4.6; breadth, .6 mm. The author has kindly confirmed our identification. Narrower and more cylindrical than our other species.

Genus **Cuspidaria**, Nardo, 1840.

CUSPIDARIA BRAZIERI, E. A. Smith.

1867. *Neaera* (*Rhinomya*) *rugata*, Angas. P.Z.S., Lond., p. 914 (non A. Adams).

1885. *Neaera brazieri*, E. A. Smith. Chall. Zool., vol. xiii., p. 51, pl. 9, f. 3.

1902. *Cuspidaria brazieri*, E. A. Smith. Hedley, Mem. Aust. Mus., vol. iv., p. 312.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size: Length, 6; height, 3.66; diameter, 2 mm.

CUSPIDARIA ALTA, Verco.

1908. *Cuspidaria alta*, Verco. T.R.S., S.A., vol. xxxii., p. 198, pl. 13, f. 8-11.

1912. *Cuspidaria alta*, Verco. May, P.R.S., Tas., p. 43.

Hab.—Same as last-named species.

Obs.—Size of type: Antero-posterior diam., 6.8; umbo-ventral, 4 mm.

Genus **Ectorisma**, Tate, 1892.

ECTORISMA GRANULATA, Tate.

1892. *Ectorisma granulata*, Tate. T.R.S., S.A., vol. xv., p. 127, pl. 1, f. 3, 3a.

1906. *Ectorisma granulata*, Tate. Hedley, P.L.S., N.S.W., vol. xxx., p. 539.

1907. *Ectorisma granulata*, Tate. Hedley, Rec. Aust. Mus., vol. vi., p. 302.

1911. *Ectorisma granulata*, Tate. May, P.R.S., Tas., for 1910, p. 311.

Hab.—Same as last-named species.

Obs.—Size of type: Antero-posterior diam., 15; umbo-ventral, 11 mm.

GARI MENKEANA, Reeve.

1856. *Psammobia menkeana*, Reeve. Conch. Icon., vol. x., pl. 6, f. 43.

Hab.—Portsea, Port Phillip.

Obs.—A small species, size of our largest example being: Antero-posterior diam., 19; umbo-ventral, 10 mm.

TELLINA DILUTA, Smith.

1885. *Tellina diluta*, Smith. Chall. Zool., vol. xiii., p. 108, pl. 4, f. 7-7b.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Length, 8; height, 5; diam., 2.5 mm. A white shell, concentric striae extending continuously from end to end.

CHIONE MESODESMA, Quoy and Gaimard.

1835. *Venus mesodesma*, Quoy and Gaimard, *Astrolabe*, vol. iii., part 2, p. 532, pl. 84, f. 17, 18.

1835. *Venus spurca*, Sowerby. *Thes. Conch.*, vol. ii., p. 719, pl. 156, f. 92-98.

1880. *Chione mesodesma*, Quoy and Gaimard. Hutton, *Man.*, New Zealand Moll, p. 148.

1885. *Venus (Chamelaea) mesodesma*, Quoy and Gaimard. Smith, Chall. Zool., vol. xiii., p. 131.

1905. *Chione mesodesma*, Quoy and Gaimard. Suter, *P. Mal. Soc.*, Lond., vol. vi., p. 204.

1911. *Chione mesodesma*, Quoy and Gaimard. Hedley, *Zool.*, Commonwealth trawler "Endeavour," part I., p. 100.

1912. *Chione mesodesma*, Quoy and Gaimard. May, *P.R.S.*, Tas., p. 44.

Hab.—Dredged off Wilson's Promontory.

Obs.—Similar in appearance to *C. gallinula*, Lamarck, which has fine radial sculpture upon and between the concentric lamellae, a feature absent in the above-named species.

MERETRIX REGULARIS, Smith.

1885. *Cytherea (Caryatis) regularis*, Smith. Chall. Zool., vol. xiii., p. 140, pl. 1, f. 8-8b.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—It is variable in size, ranging from: Length, 5.5; height, 5; diameter, 4 mm., to length 10; height, 9 mm.

Genus *Thyasira*, Leach, in Lamarck, 1818.

THYASIRA FLEXUOSA, Montagu.

1801. *Venus sinuosa*, Donovan (non Pennant, 1777). *British shells*, vol. ii., pl. 42, f. 2.

1803. *Tellina flexuosa*, Montagu. *Test.* Brit., p. 72.

1815. *Tellina flexuosa*, Montagu. Wood, General Conch., vol. i., p. 188, pl. 47, f. 7, 8.
1818. *Amphidesma flexuosa*, Montagu. Lamarck, A.S.V., p. 492, who also quotes as a synonym *Thyasira flexuosa*, a name communicated to him by Leach.
1825. *Tellina flexuosa*, Montagu. Wood, Index Test., p. 22, pl. 4, f. 78.
1842. *Thyatira flexuosa*, Montagu. Sowerby, Conch. Man., 2nd ed., p. 274.
1857. *Cryptodon flexuosus*, Montagu. H. and A. Adams, Gen. Recent Moll., vol. ii., p. 469, pl. 114, f. 2, 2a.
1862. *Crypton flexuosus*, Montagu. Chenu, Man. Conch., vol. ii., p. 121, f. 583.
1875. *Lucina (Cryptodon) flexuosa*, Montagu. Woodward, Man. Moll., p. 456, pl. 19, f. 7.
1875. *Axinus flexuosus*, Montagu. Tate, Appendix Id., p. 72.
1884. *Cryptodon flexuosus*, Monft. (?). Tryon, Struct. and Syst., Conch., vol. iii., p. 211, pl. 119, f. 48.
1885. *Cryptodon flexuosus*, Montagu. Smith, Chall., vol. xiii., p. 192.
1895. *Cryptodon flexuosus*, Montagu. Brazier, P.L.S., N.S.W., vol. ix., for 1894, p. 725.
1895. *Axinus flexuosus*, Montagu. Pilsbry, Cat. Marine Moll. of Japan, p. 133.
1901. *Thyasira flexuosus*, Montagu. Dall, Proc. U.S. Nat. Mus., vol. xxiii., p. 784.
1901. *Cryptodon flexuosum*, Montagu. Tate and May, P.L.S., N.S.W., vol. xxvi., p. 431.
1902. *Axinus flexuosus*, Montagu. Hedley, Mem. Aust. Mus., vol. iv., p. 320.
1903. *Thyasira flexuosa*, Montagu. Dall, Trans. Wagner Free Inst., Phil., vol. iii., p. 1339.
1905. *Cryptodon flexuosum*, Montagu. Murdoch, Trans. New Zealand Inst., vol. xxvii., for 1904, p. 232.
1911. *Thyasira flexuosa*, Montagu. Dautzenberg and Fischer, Jour. de Conch., vol. lix., p. 42-47.
1912. *Thyasira flexuosa*, Montagu. Lamy, Bulletin du Mus. d'Hist. nat., Paris, No. 3, p. 5.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—In size the shell attains to about 9 x 9 mm. Our specimens are smaller, as also are others from Stewart Island, kindly sent to us by Mr. H. Suter, named *Thyasira flexuosa*, Montagu. The area of distribution of this species is very wide; it occurs in European, West Indian, Japanese and Australasian seas. Fossil in European Neocene and Pleistocene; and Tertiary, Florida, U.S.A.

Very many more references to the species could be cited; those given indicate the difficulty that is found in classifying these small shells, and the difficulty is enhanced when, as in this species, individual specimens vary considerably in form and size.

It may be questionable as to whether the name *Thyasira*, communicated by Leach to Lamarck, and attached to a named and well-known shell, his generic name apparently not having been previously published, is sufficient to establish the genus. Lamarck does not adopt it, but classes it in his genus *Amphidesma*, where it is misplaced.

CUNA EDENTATA Verco.

1908. *Cuna edentata*, Verco. T.R.S., S.A., vol. xxxii., p. 357, pl., 14, f. 1-3.

Hab.—Same as preceding species.

Obs.—Size of type: Antero-posterior, diam., 1.6; umbo-ventral, 1.9 mm. The shell much resembles *C. concentrica*, Hedley, but that species has the inner ventral margin crenulated; in the above species it is smooth.

CUNA COMMA, Verco.

1908. *Cuna comma*, Verco. T.R.S., S.A., vol. xxxii., p. 357, pl. 17, f. 29-31.

Hab.—Same as last-named species.

Obs.—Size of type: Antero-posterior, diam., 2.6; umbo-ventral, 3.2 mm. Obliquely pyriform. Concentrically ribbed. Inner ventral margin smooth.

CUNA CONCENTRICA, Hedley.

1902. *Cuna concentrica*, Hedley. Mem. Aust. Mus., vol. iv., p. 315, f. 55.

1908. *Cuna concentrica*, Hedley. Verco, T.R.S., S.A., vol. xxxii., p. 357.

1909. *Cuna concentrica*, Hedley. May, P.R.S., Tas., for 1908. p. 54.

Hab.—Torquay.

Obs.—Size of type: Height, 2; length, 1.85 mm. “Without radial sculpture, but with about forty concentric ribs.” Sides triangular, ventral margin rounded. Equilateral.

CUNA ATKINSONI, T. Woods.

1877. *Kellia atkinsoni*, T. Woods. P.R.S., Tas., for 1876, p. 158.

1901. *Carditella atkinsoni*, T. Woods. Tate and May, P.L.S., N.S.W., vol. xxvi., p. 435, pl. 27, f. 107.

1902. *Cuna atkinsoni*, T. Woods. Hedley, Mem. Aust. Mus., vol. iv., p. 315.

1908. *Cuna atkinsoni*, T. Woods. Verco, T.R.S., S.A., vol. xxxii., p. 354.

1911. *Cuna atkinsoni*, T. Woods. Hedley, Zool., Commonwealth trawler “Endeavour,” part I., p. 91.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Height, 3; width, 2 mm. A smooth shell.

CUNA PARTICULA, Hedley.

1902. *Cuna particula*, Hedley. Mem. Aust. Mus., vol. iv., p. 316, f. 56.

Hab.—Same as last-named species.

Obs.—Size of type: Height, 2; width, 2.3 mm. Concentrically sculptured; an oblique form. Inner ventral margin crenulated. Compared by us with the type. Our specimens attain to twice the size.

CARDITA CAVATICA, Hedley.

1902. *Cardita cavatica*, Hedley. Mem. Aust. Mus., vol. iv., p. 318, f. 58.

Hab.—Same as last-named species.

Obs.—Size of type: Length, 17; height, 14; depth of single valve, 6 mm. We have compared our single valve with the type.

CARDITA DELICATA, Verco.

1908.—*Venericardia delicata*, Verco. T.R.S., S.A., vol. xxxii., p. 351, pl. 16, f. 18, 19.

Hab.—Same as last-named species.

Obs.—Size of type: Antero-posterior, diam., 8.5; umbo-ventral, 7.2 mm.

NUCULA BEACHPORTENSIS, Verco.

1907. *Nucula beachportensis*, Verco. T.R.S., S.A., vol. xxxi., p. 216, pl. 27, f. 3.

Hab.—In about 40 fathoms, off Ninety Mile Beach.

Obs.—Size of type: Umbo-ventral, diam., 4.6; antero-posterior, 4.9 mm. "Is truncated or straight from the end of the hinge to the ventral border." Inner ventral margin minutely crenulate.

LEDA FORTIS, Hedley.

1907. *Leda fortis*, Hedley. Rec. Aust. Mus., vol. vi., p. 362, pl. 66, f. 2, 3.

Hab.—Same as last-named species.

Obs.—Size of type: Height, 3.7; length, 4.2; depth of single valve, 1.45 mm. "Solid, smooth, nearly equilateral, sub-triangular, rather inflated."

LEDA MILIACEA, Hedley.

1902. *Leda miliacea*, Hedley. Mem. Aust. Mus., vol. iv., p. 295, f. 43.

1907. *Leda miliacea*, Hedley. Verco, T.R.S., S.A., vol. xxxi., p. 217.

1911. *Leda miliacea*, Hedley. May, P.R.S., Tas., for 1910, p. 312.

Hab.—Same as last-named species.

Obs.—Size of type: Length, 2.25; height, 1.5 mm. A minute ovate species. Our examples have been compared by us with the type.

Genus *Cyrilla*, A. Adams, 1862.*CYRILLA DALLI*, Hedley.

1902. *Cyrilla dalli*, Hedley. Mem. Aust. Mus., vol. iv., p. 296, f. 44.

Hab.—Same as last-named species.

Obs.—Size of type: Length, 1.2; height, 1.05; depth of single valve, 0.35 mm. Compared by us with the type.

MODIOLA LINEA, Hedley.

1907. *Modiola linea*, Hedley. Rec. Aust. Mus., vol. vi., p. 300, pl. 56, f. 23-25.

1911. *Modiola linea*, Hedley. May, P.R.S., Tas., for 1910, p. 313.

Hab.—Same as last-named species.

Obs.—Size of type: Length, 5.75; height, 2.5; depth of single valve, 0.9 mm. Compared by us with the type.

ARCOPERNA RECENS, Tate.

1897. *Arcoperna recens*, Tate. P. Mal. Soc., Lond., vol. ii., p. 181, three figures.

1900. *Arcoperna recens*, Tate. Hedley, P.L.S., N.S.W., vol. xxv., p. 496.

1901. *Arcoperna recens*, Tate. Tate and May, P.L.S., N.S.W., vol xxxvi., p. 439.

Hab.—Same as last-named species.

Obs.—Size of type: Transverse diameter of closed valves, 15; umbo-post-ventral, 19; antero-posterior, 17; umbo-ventral, 14 mm.

PHILOBRYA PECTINATA, Hedley.

1902. *Philobrya pectinata*, Hedley. Mem. Aust. Mus., vol. iv., p. 300, f. 46.

1911. *Philobrya pectinata*, Hedley. May, P.R.S., Tas., for 1910, p. 313.

Hab.—Same as last-named species; also in shell sand, Kilcunda.

Obs.—Size of type: Length, 2; height, 2.5 mm.

LIMA MURRAYI, Smith.

1891. *Lima murrayi*, Smith. P.Z.S., Lond., p. 444, pl. 35, f. 26.

1905. *Limea acclinis*, Hedley. Rec. Aust. Mus., vol. vi., p. 47, f. 10.

1906. *Limea murrayi*, Smith. Hedley, Id., p. 223.

1907. *Limaea murrayi*, Smith. Verco, T.R.S., S.A., vol. xxxi., p. 315.

Hab.—Same as last-named species.

Obs.—Size of type: Length, 8; height, 12; diameter, 6 mm.



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