

ART. VI.—*On Some New Species and Varieties of Victorian Marine Mollusca.*

BY

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AND

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(With Plate VIII.).

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This paper contains descriptions of three new species of *Rissoa*, one variety, and a new variety of *Bullinella pygmaea*, A. Adams; also remarks on and figures of *Rissoa bicolor*, Petterd.

***Rissoa iravadioides*, sp. nov.** (Plate VIII., Fig. 1).

Shell minute, cylindrical, of four and a-half slightly convex lirate whorls; exclusive of the embryonic whorl, which is smooth; the following whorls are each encircled by about six flatly-rounded spiral lirae, equally spaced, the intervening grooves are concavely rounded, and of the same width as the lirae, the upper portion of the whorl is slightly tabulate below the suture, which is incised. The obliquely pyriform aperture is in the plane of the axis, and is laterally extended to the right, beyond the body of the shell, periphery rounded. Colour, cream-white.

Dimensions.—Length, 1.55; breadth, .55 mm.

Locality.—Dredged off Wilson's Promontory (type), also in 8 to 10 fathoms, Western Port.

Obs.—In general appearance somewhat resembling shells of the genus *Iravadia*.

Type in Mr. J. H. Gatliff's collection.

***Rissoa janjucensis*, sp. nov.** (Plate VIII., Fig. 2).

Shell minute, sub-cylindrical, smooth, of five and a-half whorls, including the embryonic whorl, which is small; sutures linear, well defined; whorls flatly convex. Aperture in the plane of the axis, roundly pyriform, laterally extended to the right, peristome complete. Colour, pale yellow.

Dimensions.—Length, 1.5; breadth, .5 mm.

Locality.—Jan Juc, Puebla coast (type), in shell sand; also dredged in 8 to 10 fathoms Western Port.

Obs.—Another specimen is of reddish-brown colour, with the exception of the base and peristome, which gradually become pale yellow.

Type in Mr. J. H. Gatliff's collection.

***Rissoa verconis*, Tate; var. *apiculata*, var. nov.**

(Plate VIII., Fig. 3).

The species was originally named by Petterd *Rissoa badia*,¹ and the following is his description:—"Shell small, narrowly oblong, smooth; whorls 6, aperture small, labrum thick; apical whorls inflated. Long., 1.75; lat., .50 mm."

The name being pre-occupied by A. Adams in 1861, was changed by Tate to *R. verconis*,² and the shell was figured by Tate and May.³ It has a rounded dome-shaped apex.

In the variety the apical whorl is oblique, and of a somewhat peculiar formation, the nucleus is not situated at the highest point, but drops down to the left. Colour, brown.

Dimensions.—Length, 2; breadth, .53mm.

Locality.—Type of variety, dredged in 6 to 8 fathoms Western Port; Port Albert (T. Worcester).

***Rissoa wilsonensis*, sp. nov. (Plate VIII, Fig. 4).**

Shell minute, turreted, white, shining, semi-transparent. Whorls four, including a prominent dome-shaped protoconch. Whorls furnished with four elevated, rounded, spiral keels, the interstices being about twice the width. The body-whorl, with its eight carinae occupying slightly more than half the length of shell. Sutures deeply impressed. A microscopic examination of the interstices discloses a minute sculpture of numerous, slightly undulating spiral threads, crossed by threads of feebler strength. The protoconch is well defined, and ornamented with spiral lirae. Aperture, through which the spiral sculpture may be seen, ovate; labrum thin; inner lip slightly patulous.

Dimensions of Type.—Length, 1.5; breadth, .75 mm.

Locality.—Dredged off Wilson's Promontory.

¹ Jour. of Conch., 1884, vol. iv., p. 138.

² Trans. Roy. Soc. S. Aust., 1899, vol. xxiii., p. 233.

³ Proc. Linn. Soc. N.S.W., 1901, vol. xxvi., p. 392, pl. 27, fig. 86.

Obs.—At present three specimens represent the species, one, possessing an extra whorl, attaining the dimensions of 2 mm. It has an ally in *R. layardi*, Petterd, which species possesses closer spirals and is more acuminate in form.

Type in Mr. C. J. Gabriel's collection.

Rissoa bicolor, Petterd. (Plate VIII., Figs. 5 and 6).

This species was described as being "without sculpture."¹ This is correct as far as concerns the body whorls, but a microscopic examination shows that the two-whorled protoconch is minutely granulated, these granules being symmetrically arranged in about twelve spiral rows, which are more clearly defined on the second whorl. The species also varies in size and outline, some being elongately pyramidal, as figured by Tate and May,² and others are smaller and more tumid in the whorls, we therefore give a figure of one of these, and a magnification of the embryo showing the feature above described.

Bullinella pygmaea, A. Adams; var. **sculpta**, var. nov.

(Plate VIII., Fig. 7).

Shell thin, small, white, semi-translucent, sub-cylindrical, truncated at the top. Sculpture—the whole surface is scored with numerous, irregular, somewhat remote spiral furrows, and with longitudinals of a similar character, but more frequent. The top is narrower and margined with a slightly thickened radiatingly-marked rim, within which is an infundibuliform perforation. Aperture the full length of the shell, narrower above, and almost half the width of the shell at the anterior end. Outer lip, thin, sharp, nearly straight. A narrow, elongated, oblique pillar-lip appears, behind which is an umbilical chink, into which the sculpture is clearly traced.

Dimensions of Type.—Length, 1.25; breadth, .75 mm.

Locality.—Dredged off Wilson's Promontory.

Obs.—In the series of the variety studied variation existed. A general consistency in contour prevailed which warranted a variety being made, but with not sufficient distinction to rank it as more than a variety of the variable *B. pygmaea*, A. Ad.

Type in Mr. C. J. Gabriel's collection.

1 Jour. of Conch., 1884, vol. iv., page 137.

2 Proc. Linn. Soc. N.S.W., 1901, vol. xxvi., page 391, pl. 26, fig. 63.

EXPLANATION OF PLATE VIII.

- Fig. 1.—*Rissoa iravadioides*, sp. nov.
 Fig. 2.—*Rissoa janjucensis*, sp. nov.
 Fig. 3.—*Rissoa verconis*, Tate var. *apiculata*, var. nov.
 Fig. 4.—*Rissoa wilsonensis*, sp. nov.
 Fig. 5.—*Rissoa bicolor*, Petterd.
 Fig. 6.—*Rissoa bicolor*, protoconch enlarged.
 Fig. 7.—*Bullinella pygmaea*, A. Adams, var. *sculpta*, var. nov.

All the figures are variously magnified.



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