

THE LOWER MARINE FORMS OF *MYONIA*,  
WITH NOTES ON A PROPOSED NEW  
GENUS, *PACHYMYONIA*.

By

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(Plates li-iii.)

As will be seen by reference to the figures on Plates li and lii, the *Myonia* of the Lower Marine of New South Wales differs markedly from the species so common in the Upper Marine. The former as a whole are characterized by smaller size and a tendency to develop thicker valves as compared with the Upper Marine types. This was due probably to the fact that the larger thin-valved types described in the first part lived in shallower and smoother waters, in some cases probably sub-estuarine. The same remarks apply equally to the members of the *Chænomya* group occurring in the Upper and Lower Marines. The affinities of *Myonia* have been discussed by Mr. H. O. Fletcher.<sup>1</sup>

It has been considered advisable to make a new genus, *Pachymyonia*, for Etheridge's *Mæonia morrisii*.<sup>2</sup>

***Pachymyonia*, gen. nov.**

Genotype *Mæonia morrisii* Eth. fil.

The new genus is proposed for the form described by R. Etheridge, Junr., as *Mæonia morrisii*,<sup>3</sup> of which he says: "A very remarkable variety of *Mæonia carinata*, or a quite new form." In my opinion this form should be regarded as distinct from *Myonia* as interpreted from Dana's and allied species.

Since description, several additional specimens from Allandale and Harper's Hill have been added to the collections, some testiferous.

*Pachymyonia* may be regarded as a *Myonia* in which the shell is relatively short, very inflated, equivalve, umbones almost touching, ligament heavy and posterior, shell relatively thick, with well-marked concentric ridges. Well-marked cinctural depression posterior to the carina. Very prominent rounded carina, posterior scar below the termination of the hinge margin, anterior scar marginal. The hinge line is not seen in any specimen examined, but will probably show a tooth mass.

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<sup>1</sup> Fletcher.—RECORDS OF AUSTR. MUSEUM, xix, 1932, p.

<sup>2</sup> Etheridge.—RECORDS AUSTR. MUSEUM, xii, 9, 1919, p. 186, pl. xxviii, figs. 7-8.

<sup>3</sup> Etheridge.—*Loc. cit.*