

A REVISION OF THE GENUS *MYONIA*,¹ WITH NOTES
ON ALLIED GENERA FROM THE PERMO-
CARBONIFEROUS OF NEW
SOUTH WALES.

By

HAROLD O. FLETCHER,
Assistant Palæontologist, The Australian Museum.

(Plates xlvii-l.)

INTRODUCTION.

A great deal of confusion exists over the status of many of our eastern Australian Permo-Carboniferous genera of Pelecypoda. This chaotic state is particularly pronounced in the genera described by J. D. Dana in 1847,² mainly *Cleobis*, *Cypricardia*, *Pyramus*, and *Myonia*, as well as other closely allied genera. Many of these forms were described from small series of not exceptionally well preserved specimens, and it is only to be expected that errors in synonymy, in a doubtful genus, will occur as time proceeds.

The Australian Museum collection of Permo-Carboniferous Pelecypoda has lately been augmented by the purchase of several large palæontological collections, consisting for the most part of the Varney Parkes and the John Mitchell collections, and these have considerably enhanced the working value of the collection on which this paper is based. This series, together with material and advice from Mr. W. S. Dun, Government Palæontologist of New South Wales and Lecturer in Palæontology at the University of Sydney, has enabled me to attempt to unravel these dubious genera. The plaster casts or replicas of Dana's type specimens obtained by the Australian Museum from the United States National Museum, Washington, have also been of material assistance in the compilation of this work.

The genus *Mæonia*, changed from *Myonia* by the author in 1849, will have to revert to the original name given to it in 1847. Dana does not give any reason why this change in nomenclature was made, and as there appears to be no valid reason why the name should be changed, the genus must be known as *Myonia*.

The present paper deals with the various Upper Marine species of the genus *Myonia* (as laid down in this paper), but it has been found necessary to bring into the discussion many allied genera, previously placed as synonyms of *Myonia* or *vice versa*. These genera I hope to deal with as time permits and at no distant date. Mr. W. S. Dun for some considerable time past has devoted a good deal

¹ J. D. Dana.—Amer. Journ. Arts and Sciences (2), iv, Nov., 1847, p. 158.

² J. D. Dana.—*Loc. cit.*, pp. 151-160.