

the two kinds of radiating striæ, the one visible in certain positions to the naked eye, the other microscopic. I know of but one or two other species so finely sculptured.

Dosinia anus, Philippi, and *Dosinia subrosea*, Gray, both likewise from New Zealand, are more strongly lirata, the former being the most coarsely sculptured of all. In *Dosinia anus* the pallial sinus points below or at the lower end of the anterior scar, in *Dosinia subrosea* at the middle of the scar, and in *Dosinia lambata* it is directed still more upward. The great difference in the sculpture at once distinguishes Philippi's species from the present, and *Dosinia subrosea*, besides being rather more strongly lirata, is different in form. It is a broader shell with the beaks less prominent above, and has a more distinct posterior dorsal angle. All three species have a microscopic radiating sculpture, but that of *Dosinia lambata* is the finest.

Dosinia histrio (Gmelin), var.

Dosinia histrio (Gmelin), Römer, Monog. *Dosinia*, p. 33, pl. vi. figs. 2, 3.

Habitat.—Station 187, near Cape York, in 6 fathoms; also Flinders Passage, in 7 fathoms; and at Station 189, Arafura Sea, in 25 to 29 fathoms.

The specimens from the first of the above localities are entirely white, and very closely and delicately concentrically lirata. They are perhaps a trifle higher in proportion to the length than is usual. The following are the measurements of two specimens.

Length $33\frac{1}{2}$ mm., height $33\frac{1}{2}$, diameter 19.

Length 30 mm., height 30, diameter 18.

This species has received several names from various authors. It is the *Venus australis* of Quoy and Gaimard, the *Artemis variegata* of Reeve, *Artemis lirata* and *lenticularis* of Sowerby, and perhaps the *Artemis scabra* of Philippi.

The specimens from Station 187 and Flinders Passage resemble the variety *Artemis lirata*.

Dosinia mira, n. sp. (Pl. I. figs. 3–3e).

Testa alba, cretacea, tenuis, parum inæquilateralis, transversim rotunde ovata, medio-criter convexa, concentrice dense lirata et lamellata, lamellis tenuissimis, angustis, irregulariter plus minusve interruptis vel abruptis, interstitiis radiatim substriatis. Lunula cordata, modice profunda, in medio prominens, tenuiter lamellato-lirata. Umbones valde incurvati, mediocriter prominentes, paulo ante medium siti, apicibus nitidis, striatis. Margo dorsi anterior valde obliquus, vix curvatus, posticus rectiusculus, minus descendens. Ventris margo late regulariterque rotundatus. Area dorsalis inconspicua, angusta, haud excavata, in medio prominens, utrinque sulco haud profundo, inconspicuo.