



THE
PROCEEDINGS
OF THE
LINNEAN SOCIETY
OF
NEW SOUTH WALES.
VOL. III.

[WITH TWENTY-SEVEN PLATES].

Sydney:

PRINTED & PUBLISHED FOR THE SOCIETY

BY FOSTER AND FAIRFAX, 14 BARRACK STREET,

AND SOLD BY THE SOCIETY.

1879.

polyps. There is simply a fleshy tube with a mouth at the top, and a few small rounded prominences in place of tentacles, four of them sometimes the largest.

ARACHNOPORA. New Genus.

Zoothome parasitic spreading like a small thin web over other corals.

ARACHNOPORA ARGENTEA. n. s.

Zoothome spreading in a small extremely thin web, silvery white, and in parts quite transparent, which are sparsely covered with small silvery granules. The calices are all small very slightly raised, rounded, on which septa protrude as three or six broadly triangular teeth; calices irregular, but with a tendency to a quincuncial arrangement. Length of zoothome 7, breadth 3 mil. Calices like minute dots, barely discernable to the unassisted eye.

In this species the substance of the zoothome seems a quite transparent membrane, on which there is generally a very close arrangement of small silvery granules. It occurs parasitic on corals, filling up half of the calice and spreading from opposite septa just like a spider's web. It also spreads over the sides of the costæ, where it appears just like a snail's track on which some very fine white dust had been sparsely scattered. There are no calices on the outside.

ON A NEW SPECIES OF PSAMMOSERIS.

By the Rev. J. E. TENISON-WOODS, F.G.S., F.L.S., Corr. Mem.
Linn. Soc. N. S. W.

Plate I.

In 1848, Messrs. M. Edwards and J. Haime published in the *Annales des Sciences Naturelles* a definition of a new genus named *Heterocyathus*, which was referred to the second section of the Turbinolian family of corals. The genus thus established was meant to include simple cylindrical corals with a broad attachment always to shells which the base often enclosed, with

conspicuous ribs, circular calice, an essential columella, exert thick granular septa, and lobed pali. There were only two species in this genus, and one dependant upon a single specimen. They were always fixed upon a trochoid shell, which the tissue of the coral almost completely closed round in the course of its growth, and the only sign of its presence was the circular aperture which was always left for the mollusc thus imprisoned. Subsequently Mons. M. Edwards discovered that one of the species, in spite of its pali and sub-entire septa which closely resembled the type of the genus in which it was placed, possessed synapticalæ, and should be separated, and placed in a distant family, the *Fungidæ*. Here, however, it was also out of place, because no other genus of the family possesses pali. But the pali themselves are doubtful. They are lobed, and so are the septa, and indeed hardly distinguishable from them. In 1850 Mr. J. E. Gray added what he considered a third species to the genus. This was *Heterocyathus hemisphericus*, described in the *Annals of Nat. Hist* for 1850 (Second Series, Vol. 5, p. 410.) It was brought from the China Seas, and was thus described:—Corallum extremely short, four complete cycles; septa unequal, primaries very thick, especially near the columella, the next in extent are the fourth order, then the secondaries, then the fifth order, then the tertiaries, which are smaller than all the others, all very close, but little raised, and the border feebly arched. The two latter species have been erected into two genera. One *Psammoseris*, which is thus characterised: Corallum of trifling height, fixed on a shell which it completely encloses, except at the peristome; wall thick, bare, strongly granular, and scarcely striate beneath; columella papillary, septa scarcely prominent, thickly covered with very projecting granules, penultimate cycle more developed than the last, and approaching each other before the last. I confess that this description does not appear very clear. The words in French are as follows:—“*Celles (cloisons) de l'avant dernier cycle beaucoup plus développées que celles du dernier et rapprochées entre elles au-devant de ces dernières.*” It would seem as if the third cycle was larger than

the fourth, but this is exactly contrary to the description of the type species, Gray's *Heterocyathus hemisphericus*, of which it is especially stated that the tertiaries are the smallest. If the orders were meant the description would be still more obscure.

The species I have to bring before the notice of the Society appears to me to be one that should be referred to *Psammoseris*. It is, however, very peculiarly distinguished by having the union of the fourth and fifth orders in front of the third, and the thickened lobate mass thus resulting unites again on each side in front of the secondaries. It also has pseudo-pali in the lobes, which spring from the septa, but they are many in number, and in fact the septa alone would incline one to refer the species to the *Astrangiaceæ*. The union between the septa is effected by small processes like synapticulæ, but the granules themselves on the faces of the septa never seem to unite. The mode of junction and the inclination of the septa recalls *Eupsammideæ*, but the wall is quite imperforate. There does not appear to be any other resemblance except the junction of the septa. There is the greatest difference between the various specimens in the thickness and granulation of the septa. Some are so thick and close that the granules almost touch, making the calicular fossa seem like a regularly paved cavity; others are thin, wavy, and scarcely granular, having the rough fossa very conspicuously uneven from the lobes of the septa.

PSAMMOSERIS CYLICIOIDES. n. s.

Corallum in general fastened to the mouth of a turriculate shell (*Mitra amanda*, Reeve, *M. hebes* &c., an unknown *Terebra*, and some shells, which are quite covered except at the aperture), base wider than calice, and more or less constricted between, and all the exterior irregularly covered with fine granules; calice irregularly circular, fossa deep and wide; septa exsert, in six systems of four cycles; primaries with the two fourth orders and secondaries with the two fifth projecting above the edge in closely adpressed sets of three septa, the higher orders diverge from the first and second to meet before the third, and the

resulting tissue unites at once to the second, which forms thence a confused mass, sending up almost perpendicular lobes like pali, which are very granular; columella only a few inconspicuous papillæ at the base of the fossa; laminæ of nearly equal thickness, the primaries being free throughout, and only slightly thicker; costæ conspicuous and distinct, corresponding to the septa, and about equal for the three first orders, the fourth and fifth being equal, small, and in some specimens only represented by a line of granules; intercostal spaces about equal, rather deep and smooth.

Alt. 5, diam. 7. Princess Charlotte's Bay.

There is a remarkable peculiarity in these corals, which is, that the granulations which cover the ribs sometimes extend a long way upon the spire of the shell on which they grow even far beyond other traces of the basal tissue.

EXPLANATION OF PLATE I.

- Fig. 1. Corallum attached to shell, magnified 2 diameters.
- „ 2. Corallum covering attached shell, magnified 2 diam.
- „ 3. Calicæ of fig. 1; 3 diam.
- „ 4. One system of costæ; 4 diam.
- „ 5. One system of septa; 4 diam.

EXHIBITS.

E. P. Ramsay, Esq., exhibited a very fine specimen of *Osteoglossum Leichardtii* (Barramundi), from the Dawson River, Queensland.

MONDAY, 25TH MARCH, 1878.

W. J. STEPHENS, Esq., M.A., President, in the Chair.

The Chairman introduced Captain Hutton, of the Otago Museum, New Zealand, to the meeting.

MEMBERS ELECTED.

E. Meyrick, Esq.; and C. Lentzner, Esq.

EXHIBITS.

Mr. Macleay exhibited a beautiful coloured drawing by Mr. Murray, of a species of *Medusa*, which had been lately abundant in Port Jackson. He stated that he had never seen the animal before, and that none of the fishermen of the port remembered having seen it; but that he had no doubt that it was the *Pelagia panopyra* of Lesson, a species abundant in the tropical Atlantic. He also remarked that the eight filaments attached to the outer rim of the umbrella were annulose, like an annelid, and capable of great extension and contraction. For some weeks they had been very numerous in all parts of the harbour, but had completely disappeared after the storm on the first and second of this month. Mr. Macleay also exhibited a specimen of *Argonauta argo* with the animal, caught in Port Jackson; also drawings of *Trilobites* by Mr. C. Jenkins, from the Upper Silurian beds of Yass; also coloured drawings of an *Aplysia* and two species of *Monacanthus* from Port Jackson.

Mr. Ramsay exhibited a few rare birds collected by the Museum Collector (Mr. Alexander Morton) who accompanied Mr. Goldie's expedition to the south coast of New Guinea; also some birds which he had lately received from the north-west coast of New Guinea, including the following species:—*Parotia serpens*, *Paradisica raggiana*, *Loris hypenochrous*, (var.), *Janthænas Rawlinsoni*, *Ptilopus perlata*, *Ptilopus cornulatus*, *Tanysiptera Galatea*, *T. Carolinæ*, *Pitta mackloti*, *Pitta Novæ-Hibernicæ*, *Pitta Novæ-Guinææ*, *Campephaga melas*, *Pachycephala fuliginata*, *Pachycephala collaris*, also a new species of tortoise and some birds, believed to be new, from Mr. Goldie's collection, which will be described hereafter.

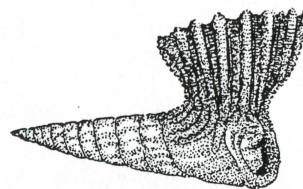


Fig. 1 + 2

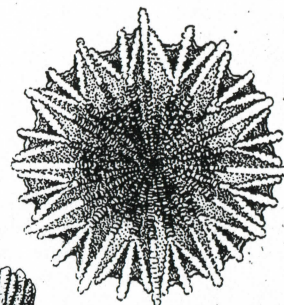


Fig. 3 + 4

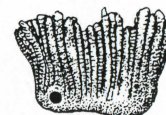


Fig. 2 + 2

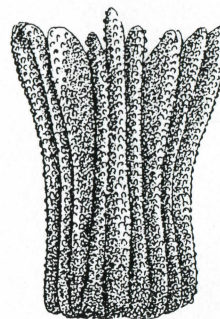


Fig. 4 + 8

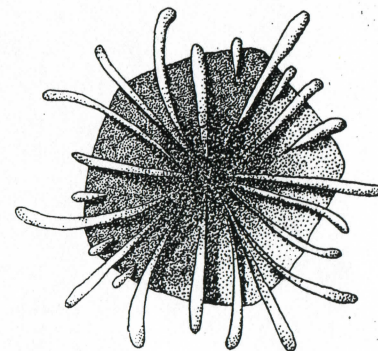


Fig. 7 + 4

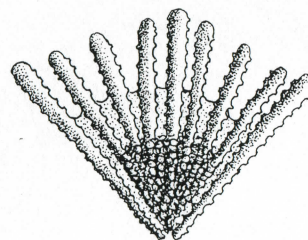


Fig. 5 + 10.

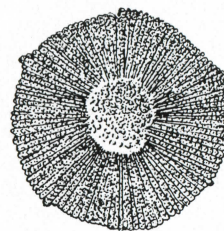


Fig. 8 + 4

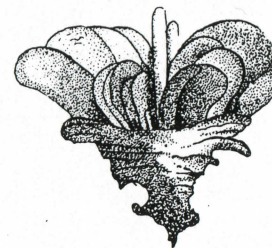


Fig. 6 + 3