

end. It does not completely traverse the mesogloea, but leaves free on either side a homogeneous layer, which in its turn is bounded by a stripe reaching to the commencement of the oral disc, and carrying the usual hard deposits."

*Sphenopus arenaceus*, R. Hertwig.

*Habitat*.—Station 187, Torres Strait, Australia, September 9, 1874; 6 fathoms. Two specimens.

*Sphenopus marsupialis*, Steenstrup.

*Habitat*.—(a) Station 188, in the Arafura Sea, September 10, 1874; 28 fathoms. One specimen. (b) Station 208, Philippine Islands, January 17, 1875; 18 fathoms. One specimen.

In the Challenger material I have found four further examples of the genus *Sphenopus*; two of these I have determined as *Sphenopus arenaceus* on account of their rusty red tint, and other two as *Sphenopus marsupialis*, in consequence of the earthy-grey colour and the absence of a stalk. It seems to me, however, desirable that, with an opportunity of more abundant and fresh material, a renewed study should be undertaken to decide whether the received specific characters are variable, and whether all three species should not be united in the single *Sphenopus marsupialis*.

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## APPENDIX TO THE ZOANTHÆ.

### Genus *Stephanidium*, n. gen.

Among the Zoanthæ I include with some reserve a genus which is represented by a single species, and has thus been insufficiently investigated. It differs from the characteristic forms of Zoanthæ in the absence of incrustations, and the non-formation of a colony. Both characteristics, however, may be absent in true Zoanthæ, e.g. the soft-skinned *Zoanthus* and the solitary Sphenopidæ. Of more importance is the fact that, in spite of careful study, I have not yet been so fortunate as to demonstrate beyond all doubt the decisive characteristic of Zoanthæ, namely, the regular distribution of micro- and macro-mesenteries. I consequently omit to give separate diagnoses of the species and genus.

*Stephanidium schulzii*, n. sp. (Pl. I. fig. 14; Pl. III. figs. 1, 7).

*Habitat*.—Station 209, off Zebu, Philippine Islands, January 22, 1875; 95 fathoms.

*Dimensions*.—Breadth, 1.5–2.2 mm.; height, about 1.0 mm.

Some Actiniæ were forwarded to me by Prof. F. E. Schulze, found among the Hexactinellidæ entrusted to him for description; they were mainly small, insufficiently characterised forms, which I did not care to investigate; but among them occurred five