strongly bent.

spicules, mainly arranged perpendicularly to the walls of the smaller canals. The latter spicules are mostly slender, slightly curved oxea; sometimes they become blunted; average maximum size, 0.23 by 0.009 mm.

Spicules.—Oxeote to strongylote, size variable (vide supra).

We were at first inclined to refer this sponge to Rhizochalina singaporensis, Carter,

the two forms approach one another. Thus in *Rhizochalina pedunculata*, the dermal membrane contains a number of cylindrical spicules, some of which attain great size (vide measurements), but which are, however, nearly or quite straight, while the deeper spicules sometimes show a strong tendency to become blunted. In Carter's species there are a great number of cylindrical spicules, but they are mostly very short, stout, and

but closer examination shows certain well-marked differences, although in some respects

regarded as characteristic, although, as there is only one specimen, it is impossible to say whether it is a constant feature.

It is perhaps noteworthy that a great number of the oxeote spicules of this species

The presence of a distinct peduncle (whence the specific name) may possibly be

show a tendency to become slightly rough and jagged at the points, suggesting the idea that they have begun to undergo absorption (that is to say, as a vital process, not the absorption occurring in dead spicules, which these are not).

Locality.—Api, New Hebrides, 60 to 70 fathoms.

Genus Oceanapia, Norman (Pl. IX.).

1869. Oceanapia, Norman, Brit. Assoc. Rep. for 1868, p. 334.

Microsclera (viz., sigmata) present.

Oceanapia robusta, Bowerbank, sp. (Pl. IX. fig. 3).

1866. Isodictya robusta, Bowerbank, Mon. Brit. Spong., vol. ii. p. 304.

1866. Desmacidon Jeffreysii, Bowerbank, Mon. Brit. Spong., vol. ii. p. 347.

1867. Gellius robustus, Gray, Proc. Zool. Soc. Lond., p. 538.

1867. ? Biemna jeffreysii, Gray, Proc. Zool. Soc. Lond., p. 539.

1869. Oceanapia Jeffreysii, Norman, Last Rep. Dredging Shetland Isles, Brit. Assoc. Rep. for 1868, p. 334.

Sponge more or less globular, solid, with a number of tubular processes or fistulæ coming off abruptly from all parts of the surface. Colour in spirit yellowish to nearly

white. Size (of the body) very variable. Fistulæ 75 to 100 mm. long by 6 mm. wide, closed at the ends, where they exhibit an irregular branching into four or five or more short, finger-like processes, resembling the tubes of Rhizochalina oleracea, figured by Schmidt (Spong. Atlant. Gebiet., pl. iv. fig. 1). Texture in well-preserved specimens

Schmidt (Spong. Atlant. Gebiet., pl. iv. fig. 1). Texture in well-preserved specimens firm and compact throughout. Surface smooth.