

Spicules.—(a) *Megasclera*; stout, smooth, fusiform oxea (Pl. XXIX. fig. 7), bent at more or less of an angle in the middle, sharply and gradually pointed, size about 0.45 by 0.04 mm. (a few small, slender styli were also observed, but as these are almost certainly foreign we shall say nothing further about them). (b) *Microsclera*; of one kind only; viz., very abundant isochelæ (Pl. XXIX. fig. 7a), with well-developed front palms, giving off each a distinct, stout, backward process. The lateral palms are united with the shaft up to their ends (*i.e.*, up to a level with the end of the front palm), but the middle portion of the shaft is not fimbriated as in *Desmacidon* (*Homæodictya*) *kerquelenensis*; they are large, handsome spicules about 0.063 mm. long; not infrequently there is an irregular swelling in the central portion of the shaft.

This species differs from *Desmacidon* (*Homæodictya*) *kerquelenensis*, nobis, in the arrangement of the skeleton, in the larger size of both megasclera (which are here much stouter) and microsclera, in the non-fibriation of the shaft of the latter, and very markedly in external form. In the arrangement of the skeleton it agrees exactly with *Desmacidon conulosa*, nobis (*vide* p. 106), and this gives to the two a very similar look; the two species differ, however, externally, in the arrangement of the oscula and, microscopically, in the form of the isochelate spicules; yet we think the two come very near together, and in general appearance they are much more like one another than are *Desmacidon* (*Homæodictya*) *grandis* and *Desmacidon* (*Homæodictya*) *kerquelenensis* (*cf.* Pl. XXII. fig. 1, with Pl. XXIV. figs. 2 and 3).

Locality.—Simon's Bay, Cape of Good Hope, November, 1873; 10 to 20 fathoms. One specimen.

Genus *Artemisina*, Vosmaer.

? 1885. *Artemisina*, Vosmaer, Sponges of the "Willem Barents" Expedition, 1880 and 1881, p. 25.

Body compact, texture like that of Suberitidæ. Megasclera monactinal; styli or subtylostyli. Microsclera isochelæ and spined toxa.

Vosmaer's original diagnosis runs as follows:—"Body covered with a thin dermis forming here and there thin oscular tubes. Sponge-mass rather compact, about as Suberites. Generic spicules tr. ac | Λ sp. | anc². | "

The only species which we include in the genus is the original type, *Artemisina suberitoides*.

Artemisina suberitoides, Vosmaer.

? 1885. *Artemisina suberitoides*, Vosmaer, Sponges of the "Willem Barents" Expedition, 1880 and 1881, p. 25, pl. i. fig. 16; pl. iv. figs. 11-14; pl. v. figs. 51-55.

As the species has already been fairly fully described and figured, we can dismiss it very briefly. It is extremely unfortunate that Dr. Vosmaer gives no spicular measure-