

Phyllophorus holothurioides, Ludwig, 1875.

Tentacles eighteen, thirteen exterior, two ventral of which are much smaller, and five small interior. Deposits—tables consisting of an irregular, perforated disk with uneven, spinous margin, and a spire reduced to four or six spines. Calcareous ring of ten simple pieces, the radial ones larger and provided with two slender posterior prolongations, each divided into joints.

Habitat.—(?).

II. Ambulacral appendages of two kinds: smaller cylindrical pedicels only on the middle of the ventral surface, and larger conical granular papillæ or warts with pedicels on the rest of the body.

Phyllophorus granulatus (*Psolus*), Grube, 1840; Sars, 1857. *Hemicrepis granulatus*, Müller, 1853.

Tentacles twelve to thirteen in the exterior crown, and six smaller in the interior. Deposits—nearly absent on the middle portion of the ventral surface, but very closely crowded on the rest of the body, especially in the papillæ; they consist of irregular, perforated smooth plates and large, round, very thick reticulate scale-like ones. Calcareous ring of ten simple pieces, the radial with two slender undivided posterior prolongations.

Habitat.—Mediterranean Sea (Grube, Sars, Ludwig, &c.).

The following two species are incompletely known and need to be re-examined:—

Phyllophorus tenuis, Haacke, 1880; Ludwig, 1883.

Habitat.—Mauritius (Haacke, Ludwig).

Ludwig having seen the type-specimen, states that it is too defective to be re-examined. He does not seem to be sure whether it is a *Phyllophorus*.

Phyllophorus fusus (*Holothuria*), Delle Chiaje, 1828 and 1841.

Habitat.—Mediterranean Sea (Delle Chiaje).

Family IV. RHOPALODINIDÆ.¹

Dorsal interradial space or bivium highly abbreviated and reduced, ventral surface enormously enlarged, consequently the body has a bottle-like appearance with mouth and anus placed close together in the same narrow proboscis-like pole

¹ Semper referred this peculiar Holothurid to a new class among the Echinodermata, which he called "*Diplostomidea*."