

lower edge of side arm plate, and is a broad rounded scale like those on the marginal border. No tentacle scales. Colour in alcohol, pale brown.

Station 171.—July 15, 1874; lat. 28° 33' S., long. 177° 50' W.; 600 fathoms (young). Station 174.—August 3, 1874; lat. 19° 10' S., long. 178° 10' E.; 210 to 610 fathoms; globigerina ooze.

Ophiotrochus.

Ophiotrochus, Lym., Bull. Mus. Comp. Zool., vol. v., part 7, 1878.

Disk flat and round, covered with thin, more or less granulated scales, and naked radial shields. Arms slender, tubular, each joint constricted at its base; side arm plates meeting widely above and below; upper arm plates rudimentary. Scale of second pair of mouth tentacles lying between side mouth shield and outer mouth papillæ. There are teeth and mouth papillæ; no tooth papillæ. Smooth arm spines on outer edges of side arm plates.

Ophiotrochus panniculus, Lym. (Pl. IX. figs. 12–14).

Ophiotrochus panniculus, Lym. Bull. Mus. Comp. Zool., vol. v., part 7, p. 129, pl. vi. figs. 158–160, 1878.

First arm joint, outside of disk, much wider than those beyond, and bearing four slender spines; the others have only two. A sparse granulation on the lower inter-brachial space.

(Type specimen from Station 218.) Diameter of disk 6 mm. Length of arm 26 mm. Width of arm without spines .8 mm. Two wide, very short, close-set mouth papillæ, occupying the whole of each side of an angle; and at the apex three more, very small, short, and spiniform. Mouth shields three-sided, with a long angle inward, and outer corners slightly rounded; length to breadth 1.3:1. Side mouth shields much longer than broad, swelled without like a knob, long and very narrow within, where they nearly or quite meet; they usually bear a few grains. First under arm plate small and rounded, with a slight peak inward; the rest are somewhat broader than long, pentagonal, with an angle inward, the outer edge rounded, and re-entering curves on the lateral sides. Side arm plates making together a tubular figure, flaring outward, meeting broadly below and above. Upper arm plates very minute, and almost disappearing towards middle of arm, situated at the outer junction of the side arm plates, three-sided, and with a peak within. Disk flat and round, covered with thin delicate scales; six rounded primary plates, separated by a line of scales, may be distinguished in the centre; the rest are more or less angular, and irregularly disposed. Radial shields broader than long, of irregular shape, with rounded angles, narrowly separated by a single line of scales. Interbrachial