

fourth under plate. Genital opening bounded by small close-set papillæ. Disk thick. Side mouth shields and under arm plates much swollen. Outer mouth papillæ much larger than inner. Genital papillæ large and bead-like. Six or seven small arm spines.

(Type specimen from Station 224.) Diameter of disk 12 mm. Width of arm, without spines, close to disk 2 mm. Mouth papillæ seven on each side, three basal ones considerably largest; all forming a close line. Mouth shields small, triangular, with acute angle inward, and outer edge much rounded. Side mouth shields large, much longer than broad, wider without, meeting within; length to breadth 1·7 : 1. Under arm plates from the second to the fourth or fifth furnished with tentacles; they are axe-shaped, with an angle inward, lateral sides re-enteringly curved, and outer side curved; beyond, the plates are rudimentary and diamond-shaped. Side arm plates thick, meeting above and below beyond the disk. Upper arm plates diamond-shaped, with an angle without and within; length to breadth 7 : 7. Genital scales long and narrow, bearing a row of papillæ on the free edge. Lower interbrachial space covered by thin curved plates, of which five form a transverse row along the disk margin; upper surface of disk pentagonal. Radial shields triangular, separated their entire length by a row of small plates, and there is a similar row in each interbrachial space; the central space within the radial shields is covered by six circular primary plates, separated by small ones. Arm spines six or seven in number, very short and blunt, situated on the outer edge of the side arm plate. No scales beyond the fourth or fifth under arm plate; they are large, oval, and situated near the inner angle of the plate, one to each pore. Colour in alcohol, grey.

Station 224.—March 21, 1875; lat. 7° 45' N., long. 144° 20' E.; 1850 fathoms; globigerina ooze.

*Ophiomusium cancellatum*, Lym. (Pl. II. figs. 16–18).

*Ophiomusium cancellatum*, Lym., Bull. Mus. Comp. Zool., vol. v., part 7, p. 111, pl. i. figs. 17, 18, 1878.

Arms rather slender and tapering, cylindrical, or but slightly wavy. Upper and under arm plates persisting nearly to end of arm, but no tentacles beyond third or fourth under plate. Genital openings bounded by small close-set papillæ. Disk flat, covered with small imbricated scales, which are nearly equal, except the marginal, which are larger. Upper arm plates large; the basal ones long hexagonal.

(Type specimen from Station 236.) Diameter of disk 8·5 mm. Width of arm, without spines, 1·5 mm. Length of arm 28 mm. Mouth papillæ forming a close line, six on each side, with one, diamond-shaped, at angle of jaw. Mouth shields triangular, with an angle inward, sides equal and curved; length to breadth 1 : 1. Side mouth