

(Type specimen from Station 192.) Diameter of disk 14 mm. Width of arm 3.5 mm. Mouth papillæ six or seven on each side, and one, diamond-shaped, at angle of jaw. Mouth shields ovoid, slightly pointed within; length to breadth 2 : 1.3. Side mouth shields long, narrow, having curved sides, wider without than within, where they nearly or quite meet; length 2.3 mm. Genital scales very long and narrow, extending from mouth shield to margin of disk, and bearing on their free edge an irregular row of close-set oblong papillæ. Under arm plates triangular, with an angle inward; in the first two plates the angle is blunt, becoming more acute in those beyond; outer edge somewhat curved. Tentacle scales only on the first three plates; they are minute, circular, two in number, set close together and situated very near the inner angle. Side arm plates thick, swollen, barely meeting above and below at the inner angle of the upper and under arm plates. Upper arm plates near base of arm quadrangular, wider than long; length to breadth 1.3 : 2; towards end of arm they are three-sided. Disk covered in centre with fine delicate scales, among which appear six larger rounded primary plates, which are widely separated, one in the centre, and one in each brachial space. Radial shields oval, swollen, a little wider without than within, separated from each other throughout their entire length by two or three long oval scales mingled with finer. Interbrachial spaces on upper surface occupied by two or three rounded scales, bordered by smaller, of which the largest is on the margin of disk. Under interbrachial space covered by about a dozen thick, rounded, swollen scales, almost concealing the genital scale; the three largest stand on or near the margin. Four minute peg-shaped arm spines; three standing together, low on the edge of the plate; the fourth placed much above them. Colour in alcohol, white.

Station 192.—September 26, 1874; lat. 5° 42' S., long. 132° 25' E.; 129 fathoms; mud.

*Ophiomusium lütkeni*, Lym. (Pl. I. figs. 16–18).

*Ophiomusium Lütkeni*, Lym., Bull. Mus. Comp. Zool., vol. v., part 7, p. 114, pl. v. figs. 138–140, 1878.

Disk covered by large, angular, smooth, swollen plates, of which the interbrachial marginal is largest. Arms wide and thick, with side arm plates much swollen and rounded, and bearing a spine on their upper surface.

(Type specimen from Station 192.) Diameter of disk 13 mm. Length of arm about 45 mm. Width of arm close to disk, without spines, 2.5 mm. Four or five large square mouth papillæ on each side, with one, small and slender, at apex of jaw, all closely joined, those without being deeper than those within. Mouth shields rudely three-sided, having a blunt angle within and a curved outer edge broken by angles. Length to breadth 2.5 : 2.7. Side mouth shields longer than