

(Type specimen from Station 241.) Diameter of disk 12 mm. Length of arm 30 mm. Width of arm close to disk, without spines, 3 mm. Mouth papillæ small, conical, four to six on each side, and three larger at angle of jaw. Mouth shield large, much longer than wide, five-sided, with an angle inward, and outer edge, which is wider than inner, much curved; length to breadth 4 : 3·5. Side mouth shields short, wider within than without, meeting broadly and occupying only the inner angle of the mouth shield. First under arm plate three-sided, with truncated angles; beyond they are nearly square, with truncated corners and their lateral sides re-enteringly curved; those farther out are octagonal, and afterwards hexagonal. Side arm plates thick, swollen, meeting neither above nor below, except at end of arm. Upper arm plates much broader than long, hexagonal, arched. Disk thick, covered above by a few stout plates. Radial shields angular, pear-seed shape, somewhat sunken, joined without but diverging inward, where they are separated by a thick wedge-like scale; length to breadth 3 : 2. In the interbrachial spaces are five large plates, two on margin of disk, connecting the outer ends of the genital scales; one quadrangular, connecting the radial shields; and two smaller, which lie between inner ends of radial shields. The central space is covered by six regular, stout primary plates, elevated above the rest, the central one pentagonal, the others hexagonal. The genital scales fill the lower interbrachial space between mouth shield and arm, and bear on their free edge a close row of square papillæ, which become peg-like on the arm comb. Beyond the mouth shield is a row of three small rounded marginal plates. Three short, delicate, tapering arm spines, equally spaced. Tentacle pores within the disk have two or three scales on the inner side, and one or more on the outer. Colour in alcohol, yellowish-grey.

Station 241.—June 23, 1875; lat. 35° 41' N., long. 157° 42' E.; 2300 fathoms; (young); red clay. Station 246.—July 2, 1875; lat. 36° 10' N., long. 178° 0' E.; 2050 fathoms; grey ooze. Station 346.—April 6, 1876; lat. 2° 42' S., long. 14° 41' W.; 2350 fathoms; globigerina ooze.

*Ophioglypha sculptilis*, Lym. (Pl. VI. figs. 16–18).

*Ophioglypha sculptilis*, Lym., Bull. Mus. Comp. Zool., vol. v., part 7, p. 84, pl. iv. figs. 115, 116, 1878.

Six minute arm spines. First under arm plate broader than long; those beyond longer than broad. Radial shields separated within by a cluster of large scales. Disk high. Basal under arm plates about as long as broad. Arms high and rounded.

(Type specimen from Station 237.) Diameter of disk 12·5 mm. Width of arm close to disk 3 mm. Mouth papillæ five on each side, broader than long, shaped like blunt saw-teeth, with two blunt pointed papillæ at apex of jaw. Mouth shield much rounded, pentagonal, with an angle inward, and two outer angles almost blended in a wide curve; length to