

end. Outside the mouth shield and between the genital scales are two large semicircular plates, whose outer edges reach the margin of the disk. Three arm spines, tapering, very delicate, situated half-way up on the side arm plate, near base of arm; they are about half as long as a joint. Tentacle scales minute and semicircular, two on either side of first two pores; at the third, two on the outer and one on the inner side; for the rest only one. Colour in alcohol, grey.

Station 232.—May 12, 1875; off Enosima; lat.  $35^{\circ} 11' N.$ , long.  $139^{\circ} 28' E.$ ; 340 fathoms; sandy mud.

*Ophioglypha lymani*, Ljn. (Pl. XXXVIII. figs. 10–13).

*Ophioglypha lymani*, Ljn., Om tvänne nya arter. Öf. Kong Akad., p. 472, 1870; Bull. Mus. Comp. Zool., vol. 7, p. 100.

Station 304.—December 31, 1875; lat.  $46^{\circ} 53' S.$ , long.  $75^{\circ} 11' W.$ ; 45 fathoms; sand. Station 305.—January 1, 1876; lat.  $47^{\circ} 48' S.$ , long.  $74^{\circ} 48' W.$ ; 120 fathoms; mud. Station 307.—January 4, 1876; lat.  $49^{\circ} 24' S.$ , long.  $74^{\circ} 23' W.$ ; 140 fathoms; mud. Station 308.—January 5, 1876; lat.  $50^{\circ} 10' S.$ , long.  $74^{\circ} 42' W.$ ; 175 fathoms; mud. Station 309.—January 8, 1876; lat.  $50^{\circ} 56' S.$ , long.  $74^{\circ} 15' W.$ ; 40 to 140 fathoms; mud. Station 311.—January 11, 1876; lat.  $52^{\circ} 50' S.$ , long.  $73^{\circ} 53' W.$ ; 245 fathoms; mud. Station 313.—January 20, 1876, lat.  $52^{\circ} 20' S.$ , long.  $68^{\circ} 0' W.$ ; 50 fathoms; sand.

*Ophioglypha irrorata*, Lym. (Pl. V. figs. 7–9).

*Ophioglypha irrorata*, Lym., Bull. Mus. Comp. Zool., vol. v., part 7, p. 73, pl. iv. figs. 106–108, 1878.

Three very short, small, sharp arm spines, low down. Mouth shield wider than long, with a point within. Radial shields long and separated. Papillæ of arm comb close set, flat, and with rounded ends.

(Type specimen from Station 143.) Diameter of disk 8.5 mm. Width of arm close to disk, without spines, 1.7 mm. Six square, close-set mouth papillæ on each side, and one large diamond-shaped at apex of jaw. Mouth shield much broader than long, with outer edge much rounded, and an obtuse angle inward; length to breadth 1.7:2. Side mouth shields long and narrow, just meeting within and with a swelling at the outer end. First under arm plate triangular, transverse oval, or wide rounded hexagonal; second plate pentagonal, with inner angle truncated, outer edge rounded and wider than inner one, lateral sides re-enteringly curved; beyond this they are rounded triangular, with a broad curve without, and a peak inward. Side arm plates wide, flat, even; meeting broadly below, beyond third plate separated above by the upper arm plates, which are four-sided, with inner side shorter than outer, which is curved. Disk flat and thin, covered with fine, closely overlapping scales; there are six large round primary plates, one in the centre and one to each brachial space, widely separated by the disk scales; on the surface of the disk are a few scattered, very minute spines. Radial shields irregular