

2.5 : 2.5. Side mouth shields rather short and wide, meeting within, where they are broader than without. First under arm plate long, wedge-shape, with outer edge curved; the rest axe-shaped, with outer edge curved, and lateral sides re-enteringly curved. Side arm plates regular and scarcely swollen. Upper arm plates large, broader than long, hexagonal, with outer angles much rounded; length to breadth 1 : 1.3. Farther out they become nearly semi-circular, with the curve inward. Disk covered with rounded, flat, thin, closely-joined plates, among which may be seen a central rosette of primaries, and two larger plates in each interbrachial space. Radial shields short, wide, rudely semi-circular, touching along part of their length, separated within by small wedge-like scales. The interbrachial space on the under surface is nearly covered by the large mouth shield. The genital scales are broad and slightly curved, and bear rather stout tooth-like papillæ. Outside the mouth shield are two rows of small thin semicircular scales. The papillæ of the arm comb are flat, squarish, and separated, and are borne by a semicircular plate about as broad as long. Three minute arm spines, pointed and standing well up on the outer edge of the side arm plate. Tentacle scales of the innermost pair of pores small, semicircular, usually two on either side. The rest of the tentacle pores have usually one large on the outer side, and three or four smaller on the inner side. Colour in alcohol, nearly white.

Station 160.—March 13, 1874; lat. 42° 42' S., long. 134° 10' E.; 2600 fathoms; red clay. Station 299.—December 14, 1875; lat. 33° 31' S., long. 74° 43' W.; 2160 fathoms; grey mud.

*Ophioglypha lienosa*, Lym. (Pl. VI. figs. 7–9).

*Ophioglypha lienosa*, Lym., Bull. Mus. Comp. Zool., vol. v., part 7, p. 88, pl. iii. figs. 80–82, 1878.

Three minute arm spines. Disk covered by small, irregular, ill defined, scales, small separated radial shields, and very large mouth shields. Disk high and flat. Basal under arm plates about as long as broad. Arms high and rounded.

(Type specimen from Station 157.) Diameter of disk 15 mm. Length of arm about 37 mm. Width of arm, without spines, close to disk 3.5 mm. Mouth papillæ small, conical, widely spaced, diminishing in size from within outward; about five on each side and a group of three larger ones at apex of jaw. Mouth shields very long, pentagonal, with an obtuse angle inward, lateral sides re-enteringly curved, and outer edge rounded; length to breadth 3.5 : 3. Side mouth shields short, meeting broadly within, where they are wider than without; occupying only the inner end of the mouth shields. First under arm plate triangular, with an angle inward, and outer edge curved; beyond, the plates are four-sided, thick, with outer and inner edges nearly straight, and lateral sides re-enteringly curved; beyond the disk they become hexagonal; their surface has a minutely crystalline