

*Ophioglypha palliata*, Lym. (Pl. IV. figs. 4-6).

*Ophioglypha palliata*, Lym., Bull. Mus. Comp. Zool., vol. v., part 7, p. 69, pl. iv. figs. 98-100.

Disk scales thin and smooth. Under arm plates, within disk, large, and touching each other. Arm comb of sharp needle-like papillæ, with a well-marked under comb on the arm itself.

(Type specimen from Station 164a). Diameter of disk 10.5 mm. Width of arm close to disk 2.5 mm. Five or six small mouth papillæ on each side, the two outermost being short and blunt, the next three or four sharply pointed, while the one at the apex of the jaw is large and rounded at the end. Mouth shield pentagonal with a blunt angle inward, and outer corners rounded. Length to breadth 2.5:2. Side mouth shields long and narrow, meeting within; broadest at their outer end, where they join the side arm plates. First under arm plates irregular, transverse oval; the second similar, but larger; those immediately beyond are transverse diamond shaped, with much rounded angles. Side arm plates broad and thin, not meeting below till beyond the disk, widely separated above by the upper arm plates, of which the first one is small and triangular, the second quadrangular, with the outer edge widest and curved, and inner edge straight. Upper surface of disk, which is smooth and even, covered with thin, fine, ill-defined curved scales; the radial shields are longer than wide, with edge much rounded, separated their entire length by small scales. Under surface covered by rows of scales somewhat larger than those above. Genital scales wholly covered by the scaling, except above, where they support an arm comb of sharp, slender papillæ; their free edge below carries a row of small conical papillæ. Three tapering arm spines, upper one longest, second and third about equal. Three or four small rounded tentacle scales on each side of the mouth tentacles, second and third pores having three on each side; those just beyond with four short sharp scales on the inner side. Colour in alcohol, grey.

Station 164a.—June 13, 1874; lat. 34° 13' S., 34° 19' S., long. 151° 38' E., 151° 31' E.; 400 fathoms; blue mud.

*Ophioglypha lepida*, Lym. (Pl. IV. figs. 1-3).

*Ophioglypha lepida*, Lym., Bull. Mus. Comp. Zool., vol. v., part 7, p. 70, pl. iii. figs. 71-73.

Four arm spines; one long and high up, three short and low down. Radial shields touching without; disk scales angular. Disk thin, with rather delicate scales. Arms slender.

(Type specimen from Station 46.) Diameter of disk 9 mm. Width of arm close to disk 1.5 mm. Mouth papillæ, three to four on each side, short and square, with a larger pointed one at apex of jaw. Mouth shield wide pentagonal, with an obtuse angle inward, outer edge slightly curved, and outer corners rounded; length to breadth 1:1. Side mouth shields long narrow, wider without, tapering inward where they meet. First under arm plate broad triangular, those beyond pentagonal, with obtuse angle inward, lateral sides re-enteringly curved and outer edge slightly curved; beyond the disk they gradually