

(Type specimen from Station 192.) Diameter of disk 11 mm. Length of arm 50 mm. Width of arm near disk 3 mm. Twelve mouth papillæ to each angle; of these the outermost one on either side is wide, like a short spatula, and is plainly the scale of the mouth tentacle; the next four papillæ are sharp and peg-like, the pair at apex of angle are thickened and conical. Five flat teeth, a little longer than wide, with a curved cutting edge. Mouth shields long heart-shaped, or broad spearhead-shaped; length to breadth, 1.5 : 1.2. Side mouth shields large and three-sided, wide without, tapering inward, where they nearly or quite meet. First under arm plate small and wider than long; plates beyond, wide pentagonal, with outer side gently curved, laterals re-enteringly curved, and inner angle so obtuse and rounded as to be almost a gentle curve. Side arm plates barely meeting below, separated above, rising in a thick abrupt spine ridge. Upper arm plates small, thick, and fan-shaped, with the angle inward. Disk thick and puffed, covered above by an even granulation, nine or ten grains in the length of 1 mm. On removing these, there is disclosed a smooth coat of very thin scales, about five in the length of 1 mm., which cover the radial shields, except their outer ends; interbrachial spaces below without grains, and covered with scales still finer than those above. Seven slender, much flattened arm spines, slightly rough on the edges; the uppermost one extremely long, sometimes equal to five arm joints, diminishing to the lowest, which is longer than one joint. Two large, oblong, slightly pointed tentacle scales. Colour in alcohol, pale brown above, much lighter below.

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

*Ophiacantha rosea*, Lym. (Pl. XXV. figs. 10–12).

*Ophiacantha rosea*, Lym., Bull. Mus. Comp. Zool., vol. v., part 7, p. 139, pl. x. figs. 267, 268, 1878.

Disk scales and radial shields hidden by a thick skin, which is closely beset with very short, stout spines, which sometimes are no higher than grains. Eleven arm spines, slightly rough under microscope.

(Type specimen from Station 308.) Diameter of disk 17 mm. Length of arm, 68 mm. Width of arms without spines 4.5 mm. Mouth papillæ irregular; there are usually five on the inner part of the angle, flattened and blunt; and outside these, near end of mouth slit, a group of from three to six irregular papillæ, short and flattened. Eight or nine teeth, shaped like blunt spear heads. Mouth shields and side mouth shields closely joined and covered with thick skin, so that their outlines are not clear. Under arm plates shield shaped, with an angle within, a curve without, and re-entering curves on the lateral sides opposite the large tentacle scales. Upper arm plates with distinct outlines, broad fan shaped, with a rounded or very obtuse angle inward. Side arm plates, near base of arm, barely meeting above and below, and having a narrow