

arm plates pentagonal, with a strongly curved outer side, and lateral and inner lateral sides re-enteringly curved; length to breadth (third plate)  $\cdot 8 : 1$ . Upper arm plates broad transverse diamond-shape, widely separated. Side arm plates stout and prominent, meeting freely above and below. Disk densely set with coarse stumps, which bear a crown of strong thorns and are also usually thorny on their sides. Radial shields and scaling hidden, except the outer tips of the former. Seven or eight slender, feebly thorny arm spines; the upper one longest (3 mm.), the three lowest about equal. Tentacle scales long, large, and pointed. Colour in alcohol, grey.

Station 3.—February 18, 1873; lat.  $25^{\circ} 45' N.$ , long.  $20^{\circ} 12' W.$ ; 1525 fathoms.

The only specimen was a disk with the bases of the arms and a few arm spines. The characters were, however, distinct.

*Ophiacantha cornuta*, Lym. (Pl. XV. figs. 3–5).

*Ophiacantha cornuta*, Lym., Bull. Mus. Comp. Zool., vol. v., part 7, p. 145, pl. x. fig. 266, 1878.

Disk scales distinct and rather large, closely beset with small stumps, having a slender trunk bearing a crown of six or eight minute thorns. Lowest arm spine thickened and curved.

(Type specimen from Station 171.) Diameter of disk 5·5 mm. Width of arm without spines 2 mm. Seven mouth papillæ to each angle, of which the three innermost are long, cylindrical, and pointed; the odd one at angle of jaw being largest. Mouth shields much wider than long, with a curve without and an obtuse angle within; length to breadth,  $\cdot 6 : 1\cdot 2$ . Side mouth shields wide and stout, broadly joined within. Under arm plates much wider than long, slightly curved without, having a little peak within, and the very short lateral sides re-enteringly curved; length to breadth,  $\cdot 6 : 1\cdot 2$ . Upper arm plates small, much wider than long, almost of a transverse diamond shape, and lower than the ridge of the side arm plates, which are large, meeting broadly above and below, and having an unusually narrow projecting spine ridge continuous over the top of the arm. Disk, including radial shields, covered by distinct imbricated scales, two or three in the length of a millimetre, closely beset and partly obscured by little stumps consisting of a slender trunk bearing a crown of six or eight minute thorns. Eight translucent arm spines, all sharp and strongly thorny, except the lowest, which is thickened, curved, and slightly rough. Towards end of arm this spine is more curved and proportionately larger, and stands below three very slender arm spines. Tentacle scale flat, stout, pointed. Colour in alcohol, white.

This specimen was plainly not fully grown, and was imperfect by loss of some arm-spines, &c., but the adult does not probably differ much, while the hooked lowest arm spine and character of disk mark it well as a species. A young individual (Fiji Islands),