

small radial shields are set with short spines. Upper arm plates transverse diamond-shaped, with lateral angles sharp.

(Type specimen from Port Jackson.) Diameter of disk 7 mm. Length of arm 28 mm. Width of arm near disk 1.5. The vertical oval has about sixteen stout, blunt, nearly equal tooth papillæ, whereof four or five are on the median line, and nearly as large as those on the margin. Four rather thin, squarish teeth, with a cutting edge making an obtuse angle. Mouth shields small, closely joined to surrounding parts, broader than long, of a transverse, rounded oval shape, having a curve without and a very blunt, obtuse angle within. Side mouth shields narrow, wider without than within, where they meet. Under arm plates with ill-marked outlines of a rude, transverse oval form, with a curve without, lateral sides a little indented and the inner side vaguely angular. Side arm plates with a low spine ridge. Upper arm plates much wider than long, transverse diamond-shape, with lateral angles sharp and the outer one rounded; length to breadth, .5 : 1.1. Disk thick, and puffed in the interbrachial spaces, thickly set near the margin with short, stout stump-like spines rough at ends and sides, the longest .5 mm. in length. Towards the centre the spines grow fewer, and the middle region has scarcely any, so that the rounded overlapping scaling is conspicuous; next the mouth shields, also, there are no spines. Radial shields small and triangular, much obscured by the short spines. Nine short, translucent, rather stout, blunt, flattened arm spines, bearing pretty strong thorns on their edges; lengths to that of an under arm plate, .8, 1.5, 1.8, 1.7, 1.3, 1.1, .9, .7, .4 : .5. One minute tentacle scale at angle of under and side arm plates. Colour in alcohol, above, disk faint greenish; arms banded with lighter and darker yellowish-brown.

Station, Port Jackson; 2 to 10 fathoms.

In its disk this species resembles *Ophiothrix triglochis*, but the arm spines are much flatter and more toothed, and the upper arm plates of a different shape.

*Ophiothrix angulata*, Ayres, Proc. Bos. Soc. Nat. Hist., vol. iv. p. 249, 1852; Lym., Ill. Cat. Mus. Comp. Zool., No. i. p. 162, pl. ii. figs. 1-3.

*Stella marina minor echinata purpurea* (?), Sloane, Voyage to Jamaica, p. 272, pl. ccxliv. figs. 8, 9, 1725.

*Stella scolopendroides; Jamaicensis purpurea* (?), Linck, De Stell. Mar., p. 51, 1733.

*Ophiura angulata*, Say, Journ. Phil. Acad., vol. v. p. 145, 1825.

*Ophiothrix violacea*, Müll. & Tr., Syst. Ast., p. 115, 1842; Lym., Ill. Cat. Mus. Comp. Zool., No. i. p. 164; Ltk., Addit. ad Hist., part 2, p. 150, pl. iv. fig. 1.

*Ophiura hispida*, Ayres, Proc. Bost. Soc. Nat. Hist., vol. iv. p. 249.

*Ophiothrix caribæa*, Ltk., Vid. Meddel., p. 14, Jan. 1856.

*Ophiothrix Krøyeri*, Ltk., Vid. Meddel., p. 15, Jan. 1856.

Station 36.—April 23, 1873; off Bermudas; 32 fathoms. Off Bahia; 7 to 20 fathoms (young); var. Fernando Noronha; shallow water; mud.