

*Astroschema rubrum*, Lym. (Pl. XXXIII. figs. 1-4).

*Astroschema rubrum*, Lym., Bull. Mus. Comp. Zool., vol. vi., part 2, p. 68, pl. xvii. figs. 454-457, 1879.

Arms, at bases, not cleanly arched, but somewhat angular. Mouth angles puffed so as to nearly close the slits. Granulation fine, smooth, and close-set, six or seven in 1 mm. long. Tentacle scales short and scarcely club-ended.

(Type specimen from Station 310.) Diameter of disk 12 mm. Length of arm 160 mm. Width of arm near disk 3.5 mm. Height of arm 3.5 mm. Mouth angles so swollen as nearly to close the slits, and covered by a smooth granulation much obscured by skin; at the apex are small wide teeth. Arms near base as high as wide and not cleanly rounded, but inclined to be angular, and showing distinctly the outlines of arm joints; tapering uniformly; near their ends higher than wide; covered by a close-set, smooth, fine granulation, which, at bases of arms and on disk, has six or seven grains in the length of 1 mm. Disk thick, but flat on top, and rising but little above arms, covered by a thin skin, which is finely, closely, and evenly granulated. The radial shields are faintly indicated by flat ridges running to the centre. Mouth tentacles enclosed in tubes; the next have no scale; the next three or four have but one; those beyond, two, which at first are small and spiniform, and are nowhere long, the lower one attaining a maximum length of 1.4 mm. with a cylindrical form, and a rough, scarcely swollen end. Colour in alcohol, brownish-red, approaching flesh colour.

Station 310.—January 10, 1876; lat. 51° 30' S., long. 74° 3' W.; 400 fathoms; mud; on a Gorgonian near *Brandella*.

By its colour and smooth surface *Astroschema rubrum* may easily be mistaken for an *Ophiocreas*.

*Astroschema salix*, Lym. (Pl. XXII. figs. 13-15).

*Astroschema salix*, Lym., Bull. Mus. Comp. Zool., vol. vi., pt. 2, p. 66, pl. xvii. figs. 466-469, 1879.

Granulation fine, even, and close set; seven or eight grains in the length of 1 mm. Disk flat, with ill-distinguished radial shields. At tip of arm the lower tentacle scale takes the form of a compound hook.

(Type specimen from Station 170.) Diameter of disk 8.5 mm. Length of arm 85 mm. Width of arm near disk 3 mm. Height of arm 2.4 mm. Mouth angles covered with minute, close, smooth granulation, and bearing at their apex the usual wide spearhead-shaped teeth. Arms wide next disk, tapering rapidly for about 15 mm., and thence very gradually to their tips; covered by a fine, even, smooth, close-set granulation, seven or eight grains in the length of 1 mm. The skin, being thin, allows the outlines of the joints to show through, especially near the ends. Disk flat, scarcely rising above arms, and with a similar granulation, though rather looser on the upper surface. Radial shields scarcely to be distinguished, except at their outer ends. The first pair of pores outside mouth slit has no scale; the next six have only one; those