

outer and inner edges much curved. Disk flat and slightly angular, covered with thin, semicircular, overlapping scales, the six primary plates being much the largest; the scaling in the interbrachial spaces is somewhat coarser than on the rest of the disk. Radial shields very large and broad, somewhat longer than wide, of a blunt pear-seed shape; joined without, separated within by a wedge of two small scales. On the under surface the interbrachial space is covered with very minute scaling. One large tentacle scale longer than broad. Three short arm spines, the upper one longest and slender, while the middle one is strongly swollen at its base. Colour in alcohol, straw.

Station 241.—June 23, 1875; lat. $35^{\circ} 41' N.$, long. $157^{\circ} 42' E.$; 2300 fathoms; red clay.

Amphiura glauca, Lym. (Pl. XVIII. figs. 1–3).

Amphiura glauca, Lym., Bull. Mus. Comp. Zool., vol. vi., pt. 2, p. 29, pl. xii. figs. 326–328, 1879.

Four mouth papillæ on each side. One tentacle scale minute and like a lip. Four slender arm spines. Radial shields long and narrow, and diverging inward. Disk naked below.

(Type specimen from Station 232.) Diameter of disk 5.5 mm. Width of arm close to disk 1 mm. Four short pointed mouth papillæ on each side of the mouth angle, of which that at the apex is much the largest and most rounded. Mouth shield small, with a rounded angle inward, and outer edge curved. Side mouth shields small, long, triangular, somewhat curved, just meeting within. Under arm plates small, longer than wide, with re-entering curves on the lateral sides, outer corners rounded and a truncated angle within. Side arm plates small and little projecting, meeting neither above nor below, till some distance out on the arm. Upper arm plates small, a little broader than long, bounded within by a deep curve, and without by a gentler one, having a small ridge in the centre, which forms a continuous line along the arm. Disk rather thick, naked below, but covered above with very minute rounded scales, about seven in the length of 1 mm. where they are finest. Radial shields long and very narrow, tapering inward to a blunt point; they are joined without, and separated within by several small scales. Four slender tapering arm spines, the upper and under being usually somewhat longer than the two in the middle. One very small lip-like tentacle scale, on the inner side of the tentacle pore. Colour in alcohol, dull grey.

Station 232.—May 12, 1875; lat. $35^{\circ} 11' N.$, long. $139^{\circ} 28' E.$; 345 fathoms; sandy mud. Station 236.—June 5, 1875; lat. $34^{\circ} 7' N.$, long. $138^{\circ} 0' E.$; 420 fathoms; mud.

Amphiura verrilli, Lym. (Pl. XVII. figs. 16–18).

Amphiura verrilli, Lym., Bull. Mus. Comp. Zool., vol. vi., pt. 2, p. 29, pl. xii. figs. 329–331, 1879.

Four mouth papillæ on each side. Four arm spines. No tentacle scales. Radial shields large and wide, and joined for half their length.