The three arm bones nearest the disk margin have their tops elongated outward. scale. The tops of the mouth frames though small are considerably furrowed and grooved, but are destitute of a peristomial plate, or have only a thin lime crust. A short small jaw, universally characteristic of the genus, supports the intimately connected jaw plate and the large, flat, oblong teeth. All the species have a genital plate of the general shape just described; and the genital scale also is similar, yet varies considerably in length, sometimes being only two-thirds as long as the plate (Amphiura concolor); but again being continued, by slender additional pieces, quite to the mouth shield (Amphiura angularis). As a rule the peristomial plate is wanting, or feebly developed; nevertheless, in (Amphiura concolor) it is of good size, pretty thick, and divided in two (See Pl. XL. figs. 16–18.)

## Table of Species of Amphiura.

Only two mouth papillæ on either side, whereof one is at the apex of the mouth angle.

				3	
Disk distinctly scaled on both sides.	Two tentacle scales.	Disk scales swollen, humpy, and	irregular	ght stout, sharp arm spines. Basal mouth papillæ spiniform, en stout, sharp arm spines. Basal mouth papilla wide and scale-like. Tentacle scales very large, one overlapping the other,	Amphiura crassipes. Amphiura maxima.
		Radial shields broad, about twice as long	s wide.	even flat, blunt arm spines, with rough ends. Disk scales small, but rather thick. Tentacle scales small. Upper arm plates rounded,	
		Rad bros twi		Disk scales delicate. Upper arm plates rounded. Tentacle scales conspicuous,	Amphiura divaricata.
		Radial shields narrow, about three times as long as wide.	Three or four tapering arm spines; the lowest but one bent, and the lowest longest,		Amphiura complanata.
					Amphiura bellis.
					Amphiura candida.
			Radial shields small, and nearly or quite separated.	Five to eight tapering, straight arm spines. Outer mouth papilla scale-like. A notch in outer side of under arm plates,	Amphiura chiajii.
				Six stout, tapering, straight arm spines; the lowest longest, and one curved. Outer mouth papilla spiniform,  Four or five stout, short, arm spines. A rudimentary	Amphiura otteri.
				mouth papilla at outer corner of mouth slit. Disk scaling even and well marked,	Amphiura eugeniæ.
				Four or five stout, short, arm spines. Primary plates con- spicuous among the disk scaling,	Amphiura studeri.
				1 1110 1 1110 1 1 1 1 1 1 1 1 1 1 1 1 1	Amphiura palmeri.
Ė		adia	dial	Seven or eight short, blunt, crowded, thick arm spines.  Outer mouth papills scale-like,	Amphiura mediterranea.
			\ A	Similar to preceding, but lower scaling coarser; under arm plates wider, and arm spines thicker,	Amphiura incana.