

*Amphiura tumida*, Lym., Bull. Mus. Comp. Zool., vol. v., part 9, p. 225, pl. ii. figs. 28-30, 1878.

West Indies; 321 fathoms.

### *Amphilepis.*

*Amphilepis*, Ljn., Oph. Viv. Öf. Kong. Akad., 1866.

Disk flat, covered with rather large naked overlapping scales and stout radial shields. Large teeth. No tooth papillæ. Mouth angle wide, of medium length, and a few (usually six) small, unequal, scale-like mouth papillæ. Second mouth tentacles enclosed between first under arm plate, outer end of side mouth shield, and outer mouth papilla. Arm flat, even and slender. Arm spines few (usually three) short and regular. Two genital openings in each interbrachial space.

The disk scales and stout radial shields are much coarser than in most *Amphiuræ*, as, indeed, is the general structure. Especially are the jaws and mouth frames stouter, more flaring and proportionately wider, while the nerve ring is covered by a substantial peristomial plate in a single piece of a long oval form. The genital plates have a very long head of a cylindroid form, which suddenly passes into a short flat shaft, just where a short, flat genital scale is joined, so that the two pieces give somewhat the effect of a lobster's claw. The arm bones are similar to those of the *Amphiuræ*, and those nearest the disk margin have a forward projection of the upper surface. (See Pl. XL. fig. 19.)

*Amphilepis norvegica*, Ljn. (Pl. XL. fig. 19).

*Amphilepis norvegica*, Ljn., Oph. Viv. Öf. Kong. Akad., p. 322, 1866; Dr. Goës, Oph. Öf. Kong. Akad., p. 632, 1871.

*Amphiura norvegica*, Ljn., Tillägg Skan. Oph. Öf. Kong. Akad., p. 363, pl. xv. figs. 3-3d, 1864.

So far as one may judge, without having a proper series, these are the adult of Ljungman's original. They have the disk as large as 9 mm. The radial shields are pretty large and separated, and there is no tentacle scale.

Station 45.—May 3, 1873; lat. 38° 34' N., long. 72° 10' W.; 1240 fathoms; mud.  
Station 46.—May 6, 1873; lat. 40° 17' N., long. 66° 48' W.; 1350 fathoms; mud.

*Amphilepis patens*, Lym. (Pl. XIX. figs. 1-3).

*Amphilepis patens*, Lym., Bull. Mus. Comp. Zool., vol. vi., part 2, p. 34, pl. xii. figs. 338-340, 1879.

Disk flat, round and smooth. Mouth angle large with three wide mouth papillæ on each side. Second pair of mouth tentacles encircled by hard parts of the mouth.

Diameter of disk 11 mm. Width of arm near disk 2 mm. Mouth papillæ broad and irregular; on either side of the large prominent mouth angle, at the outer corner, are two or more or less closely joined; and, at the apex, a larger pair which, through