

crested helmet is very striking. In the fertile zoecia both the marginal spines or their basal joints persist in front of the oecium.

(3) *Amphiblestrum papillatum*, n. sp. (Pl. XXXIII. fig. 1).

Character.—Zoarium very delicate and thin, closely adherent to shell. Zoecia more or less disjunct, leaving angular spaces. Area in the younger zoecia oval, in the older irregularly pyriform. Orifice ovate, occupying about half the area. Surface of lamina finely granular. Small avicularia having a triangular mandible on small papillary eminences seated in the angular interzoecial spaces.

Habitat.—Station 208, lat. $11^{\circ} 37' N.$, long. $123^{\circ} 31' E.$, 18 fathoms, blue mud.

(4) *Amphiblestrum cervicorne*, Busk.

Membranipora cervicornis, Bk., Brit. Mus. Cat., vol. i. p. 60, pl. c. fig. 3, Macgilliv., Nat. Hist. Vict., Dec. iii. p. 32, pl. xxv. fig. 8.

Character.—Frontal area oblong or oval; a strong, much projecting process arising at each upper angle, branching like a stag's horn and bending over the front, usually meeting and sometimes inosculating; several other simple or forked, marginal spines. Oecia galeriform, crowned with a small avicularium.

Habitat.—Station 162, off East Monceour Island, Bass Strait, 38 fathoms, sand and shells.

[Williamstown, Victoria, Macgillivray.]

(5) *Amphiblestrum umbonatum*, Busk.

Membranipora umbonata, Bk., Brit. Mus. Cat., p. 57, pl. lxxiii. figs. 6, 7; Macgilliv., Nat. Hist. Vict., Dec. iii. p. 31, pl. xxv. fig. 6.

Character.—Area broadly elliptical; border low; a jointed spine on each side of the mouth. A projecting rostriform avicularium on the front below the aperture. Oecia globose, prominent, surface brilliant, with a triangular mark in front.

Habitat.—Station 163A, off Twofold Bay, 150 fathoms, green mud (on *Fucus*). Station 313, lat. $52^{\circ} 20' S.$, long. $67^{\circ} 39' W.$, 55 fathoms, sand.

[Tasmania, Mrs. Smith; Australia, Macgillivray.]

The oecium, as it rises in front of the superjacent cell, raises with itself the avicularium, with which, consequently, it then appears to be surmounted.