

1. *Auloscena mirabilis*, n. sp. (Pl. 110, figs. 1, 2).

Radial tubes cylindrical, straight, smooth, about as long as the smooth pyramidal tubes (or the convergent tubes which form the edges of the six-sided pyramids of the network). The distal end of each radial tube bears an elegant spathillate terminal corona (fig. 2), or a verticil of fifteen to twenty curved radial branches, the distal end of which is armed with a spinulate knob.

*Dimensions*.—Diameter of the sphere 2·0 to 3·0; pyramidal tubes 0·16 to 0·24 long, 0·008 broad.

*Habitat*.—Central Pacific, Stations 271 to 274, depth 2350 to 2750 fathoms.

2. *Auloscena spectabilis*, n. sp. (Pl. 110, figs. 8, 9).

Radial tubes cylindro-conical, straight, smooth, twice as long as the smooth pyramidal tubes, armed at the distal end with a conical terminal corona, or a verticil of twelve to sixteen divergent, straight, pointed, terminal branches.

*Dimensions*.—Diameter of the sphere 4·0 to 5·0; pyramidal tubes 0·25 to 0·3 long, 0·012 broad.

*Habitat*.—Antarctic Ocean, Station 154, surface.

3. *Auloscena pyramidalis*, n. sp.

Radial tubes slender, conical, straight, smooth, of the same length as the smooth pyramidal tubes, armed at the distal end with a hexagonal terminal corona, or a verticil of six divergent, straight, pointed, terminal branches, which correspond to the six sides of a pyramid; the proximal apex of this terminal pyramid is opposed to the distal apex of the similar basal pyramid.

*Dimensions*.—Diameter of the sphere 3·0 to 4·0; pyramidal tubes 0·2 to 0·3 long, 0·01 broad.

*Habitat*.—Tropical Atlantic, Stations 347 to 349, surface.

Subgenus 2. *Auloscenidium*, Haeckel.

*Definition*.—Radial tubes thorny, with lateral branches or spines, usually with a terminal verticil at the distal end.

4. *Auloscena tentorium*, n. sp. (Pl. 110, fig. 6).

Radial tubes spindle-shaped, tapering towards both ends, nearly smooth, of the same length as the smooth pyramidal tubes. The distal part of the radial tubes is thorny, and bears a verticil or a corona of twenty to thirty slender terminal branches, which are about one-third as long as the tube, sabre-shaped, with concave outer edge and pointed distal end.

*Dimensions*.—Diameter of the sphere 4·0; radial tubes 0·3 to 0·4 long, 0·02 to 0·03 broad.

*Habitat*.—North-Western Pacific (off Japan), Station 231, surface.