

The regular or subregular triangular meshes of the lattice-sphere are separated in *Sagosphæra* by solid, very thin threads, in the similar *Aulosphæra*, however, by thicker hollow tubes. The genus *Sagosphæra* may be divided into two subgenera:—*Sagosphærella* with a single radial spine at each nodal point of the network, and *Sagosphæroma* with a bunch of two to four or more divergent radial spines.

1. *Sagosphæra trigonilla*, n. sp.

Radial spines simple, straight, smooth, about as long as the smooth bars of the network, a single one at each nodal point. Meshes very regular, of equal size, equilateral triangular. (Similar to the common *Aulosphæra trigonopa*.)

*Dimensions*.—Diameter of the sphere 1.2 to 1.8, length of the bars 0.1 to 0.2, breadth 0.002 to 0.006.

*Habitat*.—Cosmopolitan; Mediterranean, Atlantic, Pacific, surface.

2. *Sagosphæra penicilla*, n. sp. (Pl. 108, fig. 10).

Radial spines straight, stout, a single one at each nodal point, twice as thick, but of the same length as the smooth bars of the network, armed at the distal end with a brush of numerous thin radial bristles. (Very similar to *Sagenoscena pencillata*, but without pyramidal elevations on the surface of the sphere.)

*Dimensions*.—Diameter of the sphere 1.0 to 1.5, length of the bars 0.1 to 0.15, breadth 0.002 to 0.004.

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

3. *Sagosphæra verticilla*, n. sp.

Radial spines slender, slightly curved, a single one at each nodal point, armed with three to five cruciate verticils, each of which is composed of four crossed lateral branches with spinulate terminal knobs (similar to *Sagmidium crucicorne*, Pl. 108, fig. 9), but with a spherical shell, having a simply latticed, and not a spongy wall.

*Dimensions*.—Diameter of the sphere 2.0 to 2.5, length of the bars 0.1 to 0.2, breadth 0.002.

*Habitat*.—North Pacific, Station 256, surface.

4. *Sagosphæra furcilla*, n. sp. (Pl. 108, figs. 11, 11a).

Radial spines short, spinulate, with a spiny terminal knob (fig. 11a), two or three arising from each nodal point of the network in divergent directions, only one-third or one-fourth as long as its smooth bars. Meshes more or less irregular, triangular.

*Dimensions*.—Diameter of the sphere 2.2, length of the bars 0.2 to 0.3, breadth 0.004.

*Habitat*.—South Pacific, Station 293, depth 2025 fathoms.