

Polar spines three-sided pyramidal, about as long as the axis of the outer sphere, one-fourth as broad as its radius. (Similar to *Xiphosphæra vesta*, Pl. 14, fig. 6.)

*Dimensions*.—Diameter of the outer shell 0·15, pores 0·008 to 0·015, bars 0·003; inner shell 0·05; polar spines 0·12 long, 0·02 broad.

*Habitat*.—South Atlantic, Station 335, depth 1425 fathoms.

Genus 49. *Sphærostylus*,<sup>1</sup> Haeckel, 1881, Prodrömus, p. 451.

*Definition*.—*Stylosphærida* with two concentric lattice-spheres and two free spines, of different size or form.

The genus *Sphærostylus* differs from *Stylosphæra* in the different size or form of the two polar spines, and therefore has the same relation to it that *Xiphostylus* bears to *Xiphosphæra*.

Subgenus 1. *Sphærostylantha*, Haeckel.

*Definition*.—Pores of the cortical shell regular, of nearly equal size and similar form; surface smooth or a little rough, without thorns.

1. *Sphærostylus liostylus*, Haeckel.

*Stylosphæra liostylus*, Ehrenberg, 1875, Abhandl. d. k. Akad. d. Wiss. Berlin, Taf. xxv. fig. 2.

Cortical shell thin walled, with rough surface, three times as broad as the medullary shell. Pores of the cortical shell regular, circular, twice as broad as the bars; ten to twelve on the half equator. Polar spines cylindrical, as broad as one pore, with conical apex; the minor spine about as long as the axis of the outer shell, the major three to four times as long.

*Dimensions*.—Diameter of the outer sphere 0·12, pores 0·12, bars 0·006; diameter of the inner sphere 0·04; length of the major polar spine 0·3 to 0·4, of the minor 0·1 to 0·15, breadth 0·012.

*Habitat*.—Fossil in the Barbados rocks.

2. *Sphærostylus flexuosus*, Haeckel.

*Stylosphæra flexuosa*, Ehrenberg, 1875, Abhandl. d. k. Akad. d. Wiss. Berlin, Taf. xxv. fig. 5.

Cortical shell thick walled, with rough surface, three times as broad as the medullary shell. Pores of the cortical shell regular circular, of the same breadth as the bars; eight to ten on the half equator. Polar spines cylindrical, S-like curved, irregular; the minor scarcely as long as the axis of the outer sphere, the major two to three times as long. (In the figure of Ehrenberg the spines are broken off; I have found them myself constantly irregular and of unequal length, sometimes with conical apex.)

<sup>1</sup> *Sphærostylus* = Sphere with styles; σφαῖρα, στῦλος.