

Subgenus 3. *Heliosestrum*, Haeckel.

*Definition.*—Surface of the disk smooth, without radial spines. Bases of the marginal spines connected by a solid equatorial girdle.

10. *Heliosestrum octangulum*, n. sp.

Disk with smooth surface, octagonal, twice as broad as the medullary shell. Pores regular, circular; nine to ten on the radius. Equatorial girdle narrow, radially striped, connecting the points of the eight short, regularly disposed, marginal spines in such a manner that the whole shell forms a regular octagon with rectilinear sides.

*Dimensions.*—Diameter of the disk 0.11 to 0.12, of the medullary shell 0.05 to 0.06; length of the sides of the octagon 0.06.

*Habitat.*—Central Pacific, Station 268, depth 2900 fathoms.

11. *Heliosestrum octogonium*, n. sp.

Disk with smooth surface, octagonal, four times as broad as the medullary shell. Pores irregular, roundish; eight to nine on the radius. Equatorial girdle broad, smooth, connecting the points of the eight short, triangular, flat marginal spines in such a manner that the whole shell forms a subregular octagon with concave, nearly equal sides. (Sometimes seven or nine spines instead of eight are developed.)

*Dimensions.*—Diameter of the disk 0.16 to 0.18, of the medullary shell 0.04 to 0.05; length of the radial spines 0.02 to 0.04, basal breadth 0.03.

*Habitat.*—Central Pacific, Station 266, depth 2750 fathoms.

12. *Heliosestrum craspedotum*, n. sp.

*Haliomma humboldti*, var., Bury, 1862, Polycystins of Barbados, pl. viii. fig. 4 (below).

Disk with smooth surface, three times as broad as the medullary shell. Pores subregular, circular; ten to twelve on the radius. Eight marginal spines (sometimes seven or nine) triangular, deeply sulcated, half as long and one-third as broad as the radius of the disk, connected by a narrow, radially striped equatorial girdle.

*Dimensions.*—Diameter of the disk 0.18, of the medullary shell 0.06; length of the radial spines 0.05, basal breadth 0.03.

*Habitat.*—Central Pacific, Stations 271 to 274, at various depths, also fossil in Barbados.

Genus 192. *Astrosestrum*,<sup>1</sup> Haeckel, 1881, Prodrömus, p. 457.

*Definition.*—Phacodiscida with double medullary shell and with eight radial spines on the margin of the disk (more or less regularly disposed, sometimes seven or nine).

<sup>1</sup> *Astrosestrum* = Stellated sieve; ἀστρῶν, σήστρων.