Subgenus 3. *Astrosestomma*, Haeckel.

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

7. *Astrosestrum pelagia*, n. sp.

Disk with smooth surface, three times as broad as the outer and eight times as broad as the inner medullary shell. Pores regular, circular; eight to nine on the radius. Eight marginal spines conical, about as long as the radius of the disk, of nearly equal length, one-third as broad at the base, connected by a radially striped equatorial girdle.

Dimensions.—Diameter of the disk 0·18, of the outer medullary shell 0·06, of the inner 0·023; length of the radial spines 0·09, basal breadth 0·03.

Habitat.—Indian Ocean, Ceylon, Haeckel, surface.

8. *Astrosestrum floscula*, n. sp.

Disk with smooth surface, two and a half times as broad as the outer and five times as broad as the inner medullary shell. Pores irregular, roundish; ten to eleven on the radius. Eight marginal spines triangular, plain, scarcely half as long as the radius of the disk, nearly as broad at the base, connected by an even equatorial girdle.

Dimensions.—Diameter of the disk 0·2, of the outer medullary shell 0·08, of the inner 0·04; length of the radial spines 0·09, basal breadth 0·07.

Habitat.—South Atlantic, Station 325, surface.

Subfamily 3. HELIODISCIDA, Haeckel, 1881, Prodromus, p. 457.

Definition.—P h a c o d i s c i d a with a variable number of radial spines on the margin of the disk (ten to twenty or more), which are commonly more or less irregular (sometimes regularly formed and disposed).

Genus 193. *Heliodiscus*,[1] Haeckel, 1862, Monogr. d. Radiol., p. 436.

Definition.—P h a c o d i s c i d a with simple medullary shell and with numerous (ten to twenty or more) simple radial spines on the margin of the disk (commonly with a variable number and an irregular disposition of the undivided spines).

The genus *Heliodiscus*, the most common and polymorphic of all P h a c o d i s c i d a, was founded by me in 1862 as the first known type of this family (*loc. cit.*). I use

[1] *Heliodiscus*=Sun-disk; ἥλιος, δίσκος.