

and transparent, except the central dark globular nucleus. The same shells also occur in some mounted preparations of surface organisms from the Challenger.

*Dimensions*.—Diameter of the shell 0·12, of the pores 0·012.

*Habitat*.—Indian Ocean, Ceylon, Haeckel; Central Pacific, Stations 266, 271, surface.

2. *Cenosphæra inermis*, Haeckel.

*Heliosphæra inermis*, Haeckel, 1862, Monogr. d. Radiol., p. 351, Taf. ix. fig. 1.

Surface of the thin-walled shell smooth. Pores regular, hexagonal, twelve to fifteen times as broad as the bars, seven to nine on the quadrant.

*Dimensions*.—Diameter of the shell 0·08 to 0·12, pores 0·012 to 0·015, bars 0·001.

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

3. *Cenosphæra hexagonalis*, n. sp.

Surface of the thick-walled shell smooth. Pores regular, hexagonal, five to six times as broad as the bars, six to eight on the quadrant.

*Dimensions*.—Diameter of the shell 0·1 to 0·15, pores 0·01 to 0·012, bars 0·002.

*Habitat*.—Central Pacific, Stations 265 to 274, at various depths.

4. *Cenosphæra mellifica*, n. sp. (Pl. 12, fig. 9).

Surface of the thick-walled shell smooth. Pores regular, circular, with thin hexagonal frames, four times as broad as the bars, six to eight on the quadrant.

*Dimensions*.—Diameter of the shell 0·2, pores 0·12, bars 0·003.

*Habitat*.—South Pacific, Station 288, surface.

5. *Cenosphæra favosa*, n. sp. (Pl. 12, fig. 10).

Surface of the thick-walled shell rough. Pores regular, circular, with thin hexagonal frames, three times as broad as the bars, ten to twelve on the quadrant.

*Dimensions*.—Diameter of the shell 0·2, pores 0·09, bars 0·003.

*Habitat*.—North Atlantic, Færøe Channel (Gulf Stream), John Murray, surface.

6. *Cenosphæra vesparia*, n. sp. (Pl. 12, fig. 11).

Surface of the thick-walled shell smooth. Pores regular, circular, with thick hexagonal frames, twice as broad as the bars, ten to twelve on the quadrant.

*Dimensions*.—Diameter of the shell 0·25, pores 0·016, bars 0·008.

*Habitat*.—Central Pacific, Station 265, depth 2900 fathoms, and surface.