

leaving a fissure between their rounded and expanded ends. Orifice semicircular or subcrescentic, with a straight entire lower lip; peristome very slightly thickened, entire, even. The front of the zoecia within the border formed of eight transverse, confluent costæ; the intercostal sulci with several minute pores and a large one at the outer end. No mesial line or fissure. Below the apex of each zoecium is a large suborbicular opening, probably avicularian or vibracular. Oecia inapparent.

*Habitat*.—Station 320, lat. 37° 17' S., long. 53° 52' W.; 600 fathoms, hard ground (on dead coral).

Reuss (Paläontologische Studien über die älteren Tertiärschichten der Alpen, p. 80, Pl. XXX. fig. 9), describes and figures under the name *Celleporaria radiata* a form, in some respects closely resembling *Cribrilina latimarginata* so far as the zoecia are concerned. The sculpture of the front appears to be precisely the same, and there is also a large opening below each zoecium. The differences, however, in other respects appear to be too great to allow of the supposition that the species are identical. According to Reuss, *Celleporaria radiata* consists of ascending irregularly branched stems, composed of concentric layers of cells; and the interzoecial spaces, instead of being occupied by a broad solid band, present a series of very irregular, angular, unequal pores or cancelli, which sometimes attain a considerable size.

§§ 2. *Free; erect or decumbent (hemescharan)*.

(3) *Cribrilina philomela*, n. sp. (Pl. XVII. fig. 6).

(?) *Cribrilina speciosa*, Hincks, Ann. and Mag. Nat. Hist., ser. 5, vol. viii. p. 8, pl. i. fig. 8, 1881.

(?) *Reptescharella inaequalis*, d'Orbigny, Palæont. Franç., p. 467, pl. 716, figs. 1-3.

*Character*.—Habit hemescharan; zoecia oval, separated by deep sulci. Front rather flattened, with 7 to 8 shallow transverse fissures on each side, finely perforated; no suboral pore. Mouth large, semicircular or slightly coarctate, with a straight entire lower lip. Peristome thin and sharp. Occasionally minute erect tubuli occur in the interzoecial sulci. Oecia lofty, prominent, globose, slightly keeled in front, with a pyriform or crescentic stigma on each side; posterior wall of zoecia entire, convex, very delicate.

*Habitat*.—Off Marion Island, 50 to 75 fathoms.

Var. *a. adnata* (Pl. XXII. fig. 7).

(?) *Cribrilina figularis*, var.

*Character*.—Closely adnate (lepralian). Occasionally a large spatulate vicarious avicularium. Zoecia distant.

*Habitat*.—Off Marion Island, 50 to 75 fathoms (on a species of *Myriapora*). Station 151, Heard Island, 75 fathoms.

[? Curtis Island, Hincks].