

close to the summit. At the bottom of the aperture a large upright hollow process with a circular opening surrounded by a very thick granular border and having on one side a large avicularium with an acute falciform mandible, and furnished round the base with several irregularly furcate chitinous processes. Each zoecium crowned with an avicularium with an acute triangular mandible pointing upwards. Oœcia galeate, each crested with an avicularium on a short cylindrical peduncle; and having a radiate pore in front, immediately above the opening.

Habitat.—Prince Edward Island, 80 to 150 fathoms.

From the densely crowded way in which the cells are disposed, and the manner in which they are concealed by the spines and curious frontal avicularian processes, I have not been able to give an accurate figure of them *in situ*, but those given may perhaps suffice to render the description more intelligible. This is one of the most remarkable forms among the Polyzoa.

Group C. ESCHARINA.

Family XIII. BIFAXARIADÆ.

Character.—Zoarium rigid, continuous or articulated, biserial, variously branched. Zoœcia alternate, closely connate back to back and facing in opposite directions.

The Family here contains the following genera:—

1. *Bifaxaria*, n. gen.

§ *a. articulatae.*

(1) *Bifaxaria submucronata*, n. sp. (Pl. XIII. fig. 1).

(2) *Bifaxaria lævis*, n. sp. (Pl. XIII. fig. 2).

§ *β. inarticulatae.*

(3) *Bifaxaria corrugata*, n. sp. (Pl. XIII. fig. 3, and Pl. XXIV. fig. 6).

(4) *Bifaxaria papillata*, n. sp. (Pl. XIII. fig. 4, and Pl. XXIV. fig. 4).

(5) *Bifaxaria minuta*, n. sp. (Pl. XIII. fig. 5).

(6) *Bifaxaria reticulata*, n. sp. (Pl. XIII. figs. 6 and 8).

(7) *Bifaxaria abyssicola*, n. sp. (Pl. XXIV. fig. 5).

(8) *Bifaxaria denticulata*, n. sp. (Pl. XXIV. fig. 3).

2. *Calymmophora*.

Calymmophora lucida, n. sp. (Pl. XXXII. fig. 3).

1. *Bifaxaria*, n. gen.

Character.—Zoarium continuous or segmented, variously branched, rooted by radical tubes. Zoœcia biserial, alternate, facing bifariously on the two sides, very closely