

SUB-ORDER III. CTENOSTOMATA, Busk.

Ctenostomata, Busk, Hincks, Smitt, Auctt.*Halcyonellea* and *Vesicularina*, Johnst.

Character.—Zoecial orifice simply circular, bilabiate (?) or quadrangular; retractile; border contractile, furnished with a setose or membranous fringe or velum. Zoarium corneous or membranaceous, or carnose; never calcified. No marsupial or appendicular organs.

DIVISION I.—HALCYONELLEA.

Halcyonellea, Ehrenberg, Hincks.*Polyzoa carnososa*, Gray.*Alcyonidulæ*, Johnst.*Halcyonelleæ*, Smitt.

Character.—Zoarium membranous or carnose, or semigelatinous, developed by continuous gemmation of the zoecia from each other.

This division, embracing in Mr. Hincks' classification the genera

Alcyonidium,*Flustrella*,*Arachnidium*,

is represented in the Challenger collection by a single species referable to *Alcyonidium*.

Family I. ALCYONIDULÆ.

Alcyonidulæ, Couch.*Halcyonelleæ*, Smitt.*Alcyonidiidæ*, Hincks.

Character.—Zoecia more or less closely united, immersed in an expanded and adherent gelatinous crust, or forming an erect, cylindrical or compressed zoarium; orifice closed by the invagination of the tentacular sheath.

The Family here contains:—

1. *Alcyonidium*, Lamouroux.

(1) *Alcyonidium flustroides*, n. sp. (Pl. X. figs. 13, 14).