

- II. *Section.* POLYPIERS VAGINIFORMES. \* Polypidoms naked, not varnished nor encrusted on the exterior. (1) Cells terminal—Plumatella, Tubularia, Cornularia, Campanularia. (2) Cells lateral—Sertularia, Antennularia, Plumularia, Seriularia.—\*\* Polypidoms varnished or slightly crusted on the exterior. Liriozoa, Cellaria, Anguinaria, Dichotomaria, Tibiana, Acetabulum, Polyphysa.
- III. *Section.* POLYPIERS A RESEAU.—Flustra, Tubulipora, Discopora, Cellepora, Eschara, Adeona, Retepora, Alveolites, Ocellaria, Dactylopora.
- IV. *Section.* POLYPIERS FORAMINES.—Ovulites, Lunulites, Orbulites, Distichopora, Millepora, Favosites, Catenipora, Tubipora.
- V. *Section.* POLYPIERS LAMELLIFERES.—\* Stars terminal—Stylina, Sarcinula, Caryophyllia, Turbinolia, Cyclolites, Fungia. \*\* Stars lateral or spread over the surface—Pavonia, Agaricia, Meandrina, Monticularia, Echinopora, Explanaria, Astrea, Porites, Pocillopora, Madrepora, Seriatopora, Oculina.
- VI. *Section.* POLYPIERS CORTICIFERES.—Corallium, Melitæa, Isis, Antipathes, Gorgonia, Corallina.
- VII. *Section.* POLYPIERS EMPATES.—Penicillus, Flabellaria, Spongia, Tethia, Geodia, Alcyonium.

#### Order IV. P. TUBIFERI.

Polypes united on a common fleshy living body, either simple or lobed or branched, and attached by its base : no external polypidom ; no solid internal axis ; the surface loaded with numerous tubiform little cylinders, rarely entirely retractile. Mouth terminal ; tentacula 8, pectinated ; no anus ; 8 longitudinal semi-partitions underneath the stomach ; 8 intestines of two kinds ; 6 groups of gemmæ resembling as many ovaries.

Anthelia, Xenia, Ammothea, Lobularia.

#### Order V. P. NATANTES.

Polypes united on a common free elongated fleshy and organic body, enveloping a cartilaginous almost bony and sometimes stony inorganic axis. Tentacula set in a radiating manner round the mouth of each polype.

Veretillum, Funiculina, Pennatula, Renilla, Virgularia, Encrinus, Umbellularia.