

*Flustra membranacea*, *Lin. Syst.* 1301. *Fabric Faun. Groenl.* 437, no. 446. *Mull. Zool. Dan. prod.* 253. *Ellis and Soland. Zooph.* 18. *Turt. Gmel. iv.* 665. *Wern. Mem. i.* 563. *Turt. Brit. Faun.* 21C. *Stew. Elem. ii.* 437. *Bosc, Vers, iii.* 144. *Corall.* 47. *Hogg's Stock.* 36. *Flem. Brit. Anim.* 536. *Johnston in Trans. Newc. Soc. ii.* 265. *La F. membraneuse, Blainv. Actinol.* 450.—*Fl. telacea, Lam. Anim. s. vert. 2de edit. ii.* 223. *Grant in loc. s. cit. iii.* 111.—*La membranipore membraneuse, Blainv. Actinol.* 447.

*Hab.* On the frond of *Laminaria digitata*, common.

Polypidom forming a gauze-like incrustation on the frond of the sea-weed, spreading irregularly to the extent of several square inches, in general, thin, and closely adherent, but sometimes becoming thickish, and then capable of being detached in considerable portions; cells very obvious to the naked eye, oblong, quadrangular with a blunt hollow spine at each angle. In many specimens there are some anomalous processes, a quarter of an inch in height, scattered over the surface: they arise from within the cells, are simple, horny and tubular, but closed at top. Ellis conjectured they were ovaries, but the conjecture is certainly unfounded.—When the polypes are all protruded they form a beautiful object under the microscope, from their numbers, their delicacy, the regularity of their disposition, and the vivacity of their motions, now expanding their tentacula into a beautiful campanulate figure, now contracting the circle, and ever and anon retreating within the shelter of their cells. The tentacula are numerous, filiform, white and in a single series.

9. *F. LINEATA*, cells oval, separate, the margin armed with several short equal spinous denticles. Professor Jameson.

PLATE XXXVII. Fig. 4.

*Flustra lineata*, *Lin. Syst.* 1301. *Mull. Zool. Dan. prod.* 253. *Fabric. Faun. Groenl.* 437. *Turt. Gmel. iv.* 665. *Corall.* 46. *Jameson in Wern. Mem. i.* 563.—*La F. linéée, Blainv. Actinol.* 450.—*F. spinifera, Johnston in Trans. Newc. Soc. ii.* 266, pl. 9, fig. 6.—*F. hirta? Bosc, Vers, iii.* 144. *Risso, L'Europ. Merid. v.* 334. *Corall.* 49.

*Hab.* On stones at low-water mark in Berwick Bay, *G. J. Orkney Islands, Jameson.*

Polypidom membranous, of a horny texture, yellowish-brown, rough, closely adnate, thin, spreading irregularly: cells scarcely visible to the eye, separate by a space not equal to the cell in breadth, the marginal teeth stout and somewhat inclined inwards.

10. *F. ? CARNOSA*, "substance fleshy; cells remote, aperture contracted, armed at the top with spinous processes." Jameson.

PLATE XXXVII. Fig. 5.