

1. *Amathia*, Lamouroux.

*Sertularia* (pars), Linn.

*Amathia*, Lamx., d'Orbigny (pars); Kraus, Heller, Hincks, &c.

*Serialaria*, Lamk., Fleming, Johnst., Blainville, Kirchenpauer, d'Orbigny (pars), Busk, Engl. Cyclop., art. Polyz.; Joliet, Barrois, &c.

*Valkeria* (pars), Dalyell.

*Character*.—Zoarium radicate, erect or creeping, with free dichotomous branches. Zoecia cylindrical or subovoid, with a broad adherent base, and more or less connate laterally; arranged alternately in a double series, disposed spirally, entirely or partially surrounding the internodes, or in a straight line parallel with the axis, or in short distant groups at the upper ends of the internodes.

(1) *Amathia lendigera*, Linné (sp.).

“Nit Coralline,” Ellis.

*Sertularia lendigera*, Linné, Pallas, Ellis and Sol., Lister.

*La Sertolara lendinosa*, Cavolini.

*Amathia lendigera*, Lamx., Pol. flex., p. 159; Heller, Hincks, Brit. Mar. Polyz., p. 516, pl. lxxiv. figs. 7-10, &c.

*Serialaria lendigera*, Lamk, Auett.

*Valkeria lendigera*, Dalyell.

*Character*.—Zoarium much branched, tangled, filamentous; branches dichotomous, about  $0.5 \times 0.15$  mm. Zoecia subcylindrical, ovate, subcompressed, tapering gradually in a long neck, disposed obliquely in series of four to five pairs close below each joint or bifurcation, and gradually diminishing in length from below upwards. Cells subdistinct, and scarcely connate.

*Habitat*.—Station 36, off Bermuda, 30 fathoms, coral.

[British and European Seas, *ubique*.]

(2) *Amathia distans*, n. sp. (Pl. VII. fig. 1).

*Character*.—Zoarium very slender and delicate, straggling, filamentous, very regularly dichotomous. Internodes long, straight, rigid, thick-walled, about 0.15 mm. in diameter, of pretty uniform length, and each completely encircled with a spiral coil, occupying usually not more than the upper half of the internode, the lower portion of which is left bare. Zoecia ovoid or oblong, about 0.4 or 0.5 mm. by 0.1 to 0.15 mm., distinct or not closely connate, with a short conical neck.

*Habitat*.—Off Bahia, 10 to 20 fathoms, mud.

This form is at once recognisable by its delicate filamentous growth, and the great distance between the spiral coils, giving it somewhat the aspect of *Amathia lendigera*. Another character is the comparative shortness and distinctness of the zoecia.