

belonging to the genus *Eudendrium* of Ehrenberg. In the first place, we may distinguish, under the name of *Eudendrium*, the type of these Hydroids, the proboscis of which is large and prominent, and the medusæ-buds permanently sessile; next the type with short proboscis, from which arise the free medusæ known as *Bougainvillia* and *Lizzia*, and, finally, a third type, embracing the free medusæ which I have described under the name of *Nemopsis*, the Hydroid of which McCrady has first ascertained to be a free locomotive form, allied to *Acaulis* of Stimpson. These three types constitute, I believe, three distinct families. For more details upon the *Nemopsidæ* I refer to the paper of McCrady upon the Hydroids of South Carolina. Representatives of the two other families are described in the following sections.

SECTION II.

EUDENDRIUM DISPAR AG.

For many years I have known two Hydroids, from the shores of Massachusetts, which I have for a long time considered as two distinct species, and described as such under Nos. I. and II., though they are now figured (Pl. XXVII. *Figs.* 10-21 and 22-26) as one and the same species, it having of late been ascertained that they are, respectively, the male and the female stock of the same kind of Hydroids.

No. I. *Protes hydroidea*.—This hydroid is a true deep-water animal, never being found on the shore, properly speaking. It may, however, be obtained in covered, rocky pools, on the ledges which lie far out in the ocean. It has a similar mode of branching, and is very nearly of the same size and color as the hydra of

? <i>Dysmorphosa</i> , Krolm, Wieg. Archiv, XVII Jahrg., Bd. 1, 1851, p. 263.	? <i>Eudendrium (confertum)</i> , Alder, Cat. Zoöph., 1857, p. 13, Pl. I. <i>Figs.</i> 5-8.
<i>Laomedea (tenuis)</i> . The medusa, Allman, An. Mag. Nat. Hist., 1859, IV. p. 367.	" " Wright, An. Mag. Nat. Hist., 1861, VIII. p. 126.
<i>Coryne (aculeata)</i> , Wagner, Oken's Isis, 1833, p. 256, Pl. XI. <i>Figs.</i> 1-9.	? <i>Dicoryne</i> , Allman, An. Mag. Nat. Hist., 2d ser., 1859, Vol. IV. p. 369.
" (<i>vulgaris</i>), Wagner, Icones Zoot., 1841, Pl. XXXIV. <i>Figs.</i> 16 and 17.	" Allman, An. Mag. Nat. Hist., 2d ser., 1861, Vol. VIII. p. 168.
? <i>Eudendrium (confertum)</i> , Alder, Annals and Maga- zine Nat. Hist., 2d ser., 1856, Vol. XVIII. p. 354, Pl. XII. <i>Figs.</i> 5-8.	? <i>Cionistes</i> , Wright, An. Mag. Nat. Hist., 2d ser., 1861, Vol. VIII. p. 123.
	? <i>Hydractinia</i> , Alder, Edinb. New Phil. Jour., 1862, p. 144.