

than is usually the case so near the disk. It is connected with ovaries alternately on opposite sides of the arm, from about the first to the fifteenth brachial (Pl. Vc. fig. 1, *gc.*). The ovaries are short and stout, and confined to the pinnule-bases in the broader, lower parts of the arms; but where the joints are smaller the ovaries appear immediately beneath the water-vessel, and the boundaries between the three arm-canals cannot be traced (Pl. Vc. fig. 2, *ov.*). The ova, of which all stages are visible, are more like those of *Antedon eschrichti* than is the case in many Comatulæ, but they are somewhat larger, reaching a diameter of 0.22 mm.; while 0.1737 mm. is the size of the largest ovum of *Antedon eschrichti* which was measured by Ludwig.

I have unfortunately been unable to make out anything definite with regard to the presence of a radial nerve and blood-vessel, which are ordinarily found between the water-vessel and the ciliated epithelium of the food-groove, but this is so often the case in other Crinoids, except in sections of more than average goodness, that I have no doubt whatever respecting the existence of these structures in *Holopus*; and I see no good reason to believe that in any essential point of its visceral anatomy there is any important difference between it and other Crinoids.

All the specimens of *Holopus* which have been preserved in the dry state are of a dull dark green tint, sometimes verging on black. But Mr. Agassiz records that on one occasion, off Montserrat, the "Blake" dredged an imperfect whitish specimen. This consisted of a detached axillary joint and the two arms belonging to it, as shown in Pls. Va. fig. 3, and Vb. fig. 4. The green colour assumed by the dry specimens is possibly due to post-mortem changes, as seems also to be the case in the Pentacrinidæ. Prof. Moseley informs me that many of the individuals dredged by the Challenger were white when captured, although tinged with pentacrinin, owing to the colouring matter being in some way masked during life, and only manifesting itself after death. During a visit which I paid him recently at Oxford, one of the dry specimens of *Holopus* was treated with spirit, and yielded a dull green solution with a red fluorescence.

Prof. Moseley examined it with the spectroscope, and found the colouring matter to be identical with the pentacrinin which he had discovered in the various species of *Pentacrinus* and *Metacrinus* that were dredged by the Challenger in the Pacific and East Indian Archipelago.

Holopus has not yet been met with outside the Caribbean Sea. D'Orbigny's original specimen was obtained at Martinique, while, thanks to Sir Rawson Rawson, others have been discovered in the neighbourhood of Barbados. The young individual figured in Pl. V. was dredged by the "Blake" in 100 fathoms off Bahia Honda; while the white fragment, already mentioned, was found at a depth of 120 fathoms off Montserrat.

During the stay of the Challenger at Bermuda,¹ Sir Wyville Thomson obtained from

¹ The Atlantic, vol. i. p. 321.