

turned inward to the disk. Fig. 15 has, besides the main aperture, two other apertures, small orifice (z), and a remarkable triradiate fissure (y); the smaller cyst shows only one secondary aperture on the place where in fig. 15 C the fissure y is visible. The cyst (fig. 15), in spite of its large size, contained only a single pair of the parasites, but both were of a larger size than usual, the female 4 mm., the male 2 mm. in length; both were of a deep brown colour.

A single specimen, which had been mounted on a slide by Dr. v. Willemoes Suhm, and which was sent me by Mr. Murray, contained a male. It was labelled—"Myzostoma. The little individual of the parasite pair in the cavity of the *Comatula* arm." There were no remarks as to locality, but undoubtedly a passage from the third letter of v. Willemoes Suhm¹ refers to this species, since he, as is evident from his preparations, has not separated *Myzostoma tenuispinum* from the following species *Myzostoma willemoesii*.

Hosts.—All the cysts collected during the Challenger Expedition were found upon the following hosts:—

- (a) *Antedon inæqualis*, P. H. C. (No. 62), Station 170 (Kermadec Islands). Two out of twelve specimens had cysts. One had four (two small and two larger), the other five (two small and three large ones), all in the first third of the arm. Station 174 (south-west of the Fiji Islands).—One out of five individuals had cysts (among them the compound cyst referred to of *Myzostoma tenuispinum* and *Myzostoma willemoesii*).
- (b) *Antedon angusticalyx*, P. H. C., from Station 214 (south-east of the Philippine Isles). One specimen had three large cysts; there were also two arms, each from a different individual, and both furnished with a large cyst on its basal part (fig. 15); and two fragments each with one cyst.
- (c) *Antedon basicurva*, P. H. C. (No. 61), from Station 170 (Kermadec Islands). One specimen (out of fourteen) had a single cyst (formed as fig. 6) in the proximal third of the arm. As I could not extend the arms of the Crinoid, which were strongly folded together, it is very possible that other cysts, though present, had escaped my attention.
- (d) *Antedon incisa*, P. H. C. (No. 61A), from Station 170 (Kermadec Islands). There was a single cyst on one out of five individuals on the proximal third of the arm. Fig. 16 shows it twice the natural size (copied from P. H. Carpenter's plates). Station 174 (south-west of the Fiji Islands).—Two specimens of the Crinoid were dredged, but neither had cysts.

¹ Von der Challenger Expedition, Brief III., *Zeitschr. f. wiss. Zool.*, Bd. xxv., 1875, p. xxxi.: "Den kleinen Parasiten der Comatula, Myzostomum, fanden wir zuerst in Halifax und seitdem habe ich ihn oft bemerkt. Diesmal (i.e., between Kermadec and Fiji Islands) aber unter eigenthümlichen Umständen unter denen er wohl noch nicht zur Beobachtung gekommen ist. Ich fand nämlich an den Armen einer Comatula aus 600 Faden Anschwellungen von der Grösse eines Schrotkornes No. 3. Eine kleine Öffnung führte ins Innere, das von einer zarten Haut ausgekleidet war, und hier fanden sich stets 2 Myzostomen, ein grosses Individuum, das viel dicker ist als irgend welche, die ich früher frei auf den Armen des Seesterns fand, und ein kleineres, das etwa nur ein Fünftel des vorigen misst."