

Habitat.—Station 274. September 11, 1875. Lat. 7° 25' S., long. 152° 15' W. Depth, 2750 fathoms; bottom temperature, 0·9° C.; radiolarian ooze. One individual.

The mouth is situated 20 mm. behind the anterior extremity of the body. The pedicels of the odd ambulacrum are from thirty to forty in number. The dorsal processes, from 3 to 4 mm. long, do not seem capable of being retracted, and are disposed twenty-three along the left ambulacrum, and about twenty-one along the right one.

The calcareous deposits of the integument are entirely dissolved, but to judge from the remaining membranes which surround them, they ought evidently to have been four- or three-armed bodies. The madreporic canal seems to pierce the body-wall. The Polian vesicle is single. The cloaca is rather considerable. The reproductive organ, about 30 mm. long, consists of two fascicles of very small, slightly elongated dichotomous cæca; its aperture is situated from 28 to 30 mm. behind the anterior extremity of the body.

TABULAR VIEW OF THE SPECIES OF THE GENUS *Benthodytes*.

I. Tentacles twenty.

- A. Integument with numerous crowded papillæ on the back; no dorsal processes (?), } *Benthodytes papillifera*.
- B. Integument without papillæ; about eight minute processes arranged along each of the dorsal ambulacra, } *Benthodytes typica*.

II. Tentacles eighteen; dorsal processes numerous, minute and retractile, scattered over the lateral interambulacra, } *Benthodytes sanguinolenta*.

III. Tentacles fifteen.

- A. Dorsal processes arranged in a single row along each ambulacrum—
 - a. All dorsal processes minute, } *Benthodytes abyssicola*.
 - b. Three pairs of the dorsal processes comparatively large, } *Benthodytes sordida*.
- B. Dorsal processes arranged in an irregular double row along each ambulacrum, - } *Benthodytes mamillifera*.

IV. Tentacles twelve (?); dorsal processes arranged in an irregular double row along each ambulacrum, } *Benthodytes selenkiana*.