

smaller forms, the colony was spotted with red, the red spots being the visceral nuclei of the several animals. The specimen was kept in a tub of water till after dark, when it gave off brilliant phosphorescent light on being disturbed. The officers amused themselves by writing their names along this living cylinder with one finger, the track of which remained as a bright line of light for some seconds. Salpæ were the commonest animals in the surface waters; there were several kinds, and many long bands of them in the chain form were taken in the surface nets. Brilliant phosphorescence was observed at night during calm weather."¹ During the Atlantic cruise of the "Michael Sars" great quantities of Salpæ, *Doliolum* and *Pyrosoma*, were captured. The collections have been examined by Bjerkan, to whom I am indebted for the following list, which shows that many of the species are widely distributed in the North Atlantic. Excluding the Appendicularia, which have not yet been

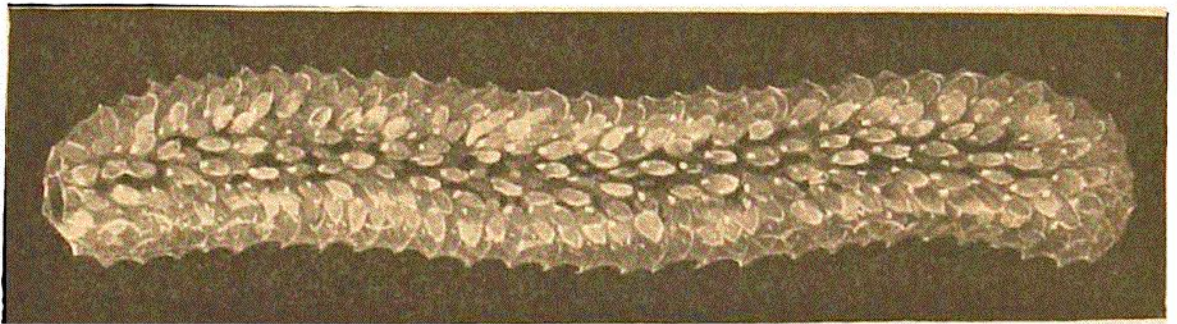


FIG. 448.

Pyrosoma spinosum, Herdman. Nat. size.

investigated, seventeen species were taken during the cruise, of which seven were taken to the north as well as to the south of the Azores.

Cyclosalpa pinnata, Forsk., Stations 56, 57, 58, 59, 86, 88.

Cyclosalpa floridana, Apstein, Stations 22, 25, 29.

Salpa maxima, Forsk., Stations 29, 33, 34, 35, 42, 43, 52, 56, 62, 66, 86, 88.

Salpa fusiformis, Cuv., Stations 10, 19, 31, 39, 51, 52, 53, 56, 58, 67, 81, 82, 84, 86, 87, 88, 90, 92, 94, 97, 98, 100, 101, 102.

Salpa fusiformis forma *aspera*, Cham.,² Stations 10, 15, 19, 24, 25, 29, 32, 51, 58, 62, 67, 84, 87, 88, 90, 92.

Salpa amboinensis, Apstein, Stations 19, 23, 49, 56, 58.

Salpa mucronata, Forsk., Stations 32, 43, 44, 45, 50, 56, 57, 58, 59, 67, 83, 87.

Salpa confederata, Forsk., Stations 31, 40, 42, 43, 51, 69, 81, 84, 86, 88.

Salpa zonaria, Pall., Stations 10, 15, 22, 23, 25, 29, 42, 43, 56, 62, 66, 67, 71, 80, 81, 82, 84, 88, 97, 102.

Salpa tilesii, Cuv., Station 10.

Salpa henseni, Traustedt, Stations 56, 58.

Doliolum tritonis, Herdman, Stations 88, 90, 92, 94, 98, 100, 101.

Doliolum sp., Stations 23, 25, 29, 32, 34, 44, 48, 49, 56, 67, 84.

Pyrosoma spinosum, Herdman, Stations 10, 39, 51, 62, 64, 67, 81, 84, 87, 88, 90.

Pyrosoma giganteum, Lesueur, Stations 29, 48, 87, 88.

Pyrosoma atlanticum, Péron, Stations 42, 47, 56, 58.

Pyrosoma, n.sp., Stations 49, 56, 88.

¹ Narrative Chall. Exp., vol. i. p. 170, 1885.

² Previously forma *echinata* (Herdman).