

## STATION 103.

those strange organs protuded by certain caterpillars from the head, and by the beetle-genus *Staphylinus* from the tail. *Fritillaria* was also present to-day. This remarkable genus of Appendicularians was first found at Messina by Fol; it has a very elongated transparent body, in which testis and ovary are well separated from each other and from the digestive and branchial apparatus, so that from this genus a good view of the complicated anatomy of *Appendicularia* can be easily obtained."

## STATION 104.

**Station 104** (Sounding 175), St. Vincent to St. Paul's Rocks (see Chart 12 and Diagram 4).

August 23, 1873; lat. 2° 25' N., long. 20° 1' W.

Temperature of air at noon, 78°·3; mean for the day, 76°·6.

Temperature of water:—

Surface, . . . . .	78·0	600 fathoms, . . . . .	39·7
10 fathoms, . . . . .	78·4	700 " . . . . .	39·2
20 " . . . . .	77·8	800 " . . . . .	38·9
30 " . . . . .	76·0	900 " . . . . .	38·6
40 " . . . . .	68·8	1000 " . . . . .	38·2
50 " . . . . .	63·8	1100 " . . . . .	37·9
60 " . . . . .	60·5	1200 " . . . . .	37·6
100 " . . . . .	55·0	1300 " . . . . .	37·3
200 " . . . . .	49·0	1400 " . . . . .	37·0
300 " . . . . .	45·0	1500 " . . . . .	36·7
400 " . . . . .	42·4	Bottom, . . . . .	36·6
500 " . . . . .	40·7		

Density at 60° F. at surface, 1·02602; bottom, 1·02601.

Depth, 2500 fathoms; deposit, Globigerina Ooze, containing 71·70 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 8 A.M. shortened and furled sails, and got up steam to sound and trawl. At 9 A.M. put trawl over. At 9.20 A.M. brought ship to wind, and sounded in 2500 fathoms. At 1 P.M. lowered cutter to ascertain surface current. At 2 P.M. obtained serial temperatures down to 1500 fathoms. At 5.30 P.M. trawl came up with several specimens.

St. Paul's Rocks distant at noon, 568 miles. Made good 170 miles. Amount of current 20 miles, direction N. 75° W.

ANIMALS FROM  
TRAWL.

The following species are recorded in the Zoological Reports from the trawl at this Station:—

HOLOTHURIOIDEA (Théel, Zool. pt. 13).

*Peniagone lugubris*, n.g., n.sp. One fragmentary specimen; obtained at no other locality.