

## STATION 62.

## Temperature of water :—

Surface, . . . . .	70·0	700 fathoms, . . . . .	40·0
100 fathoms, . . . . .	63·4	800 „ . . . . .	39·2
200 „ . . . . .	62·5	900 „ . . . . .	38·9
300 „ . . . . .	58·2	1000 „ . . . . .	38·6
400 „ . . . . .	51·5	1100 „ . . . . .	38·3
500 „ . . . . .	45·2	1200 „ . . . . .	38·0
600 „ . . . . .	41·4	Bottom, . . . . .	36·4

## Density at 60° F. :—

Surface, . . . . .	1·02716	500 fathoms, . . . . .	1·02607
150 fathoms, . . . . .	1·02708	Bottom, . . . . .	1·02709
250 „ . . . . .	1·02687		

Depth, 2875 fathoms; deposit, Red Clay, containing 10·72 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 1.30 P.M. shortened and furled sails, and got up steam to sound. At 2.30 P.M. sounded in 2875 fathoms. At 4 P.M. obtained serial temperatures at intervals of 100 fathoms down to 1200 fathoms. Sent down water-bottle, and obtained specimens of water from 150, 250, and 500 fathoms. At 6 P.M. completed observations, and made all plain sail.

Distance from Fayal at noon, 1175 miles. Made good 187 miles. Amount of current 9 miles, direction S. 27° E.

## STATION 63.

**Station 63** (Sounding 127), Bermuda to Azores (see Chart 6 and Diagram 3).

June 19, 1873; lat. 35° 29' N., long. 50° 53' W.

Temperature of air at noon, 70°·8; mean for the day, 70°·6.

Temperature of water at surface, 71°·0.

Density at 60° F. at surface, 1·02720; bottom, 1·02613.

Depth, 2750 fathoms; deposit, Globigerina Ooze, containing 33·93 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 10 A.M. put over small trawl and veered 3700 fathoms. At noon, shortened and furled sails, and proceeded under steam to sound. At 1 P.M. sounded in 2750 fathoms. At 3.45 P.M. commenced heaving in trawl, which came up at 7 P.M. containing several specimens. In the evening the water was brilliantly phosphorescent, and the tow-net was put out several times. At 7.30 P.M. made all plain sail.

Distance from Fayal at noon, 1077 miles. Made good 99 miles. Amount of current 3 miles, direction N. 39° E.