

STATION 67.

Temperature of water :—

Surface,	70°0	900 fathoms,	38°5
100 fathoms,	63·6	1000 "	38·3
200 "	60·8	1100 "	38·1
300 "	60·1	1200 "	37·9
400 "	55·0	1300 "	37·7
500 "	47·0	1400 "	37·5
600 "	42·5	1500 "	37·3
700 "	40·0	Bottom,	36·3
800 "	38·9		

Density at 60° F. at surface, 1·02699 ; bottom, 1·02614.

Depth, 2700 fathoms ; deposit, Globigerina Ooze, containing 54·30 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 11.30 A.M. shortened and furled sails, and got up steam to sound, and at noon proceeded under steam. At 1 P.M. sounded in 2700 fathoms. At 2 P.M. obtained a series of temperatures at intervals of 100 fathoms down to 1500 fathoms. Sent down slip water-bottle and obtained sample of bottom water. The carbonic acid was determined in the surface water, and amounted to 52·9 milligrammes per litre. At 4 P.M. completed observations, and at 4.10 P.M. made all plain sail.

Distance from Fayal at noon, 606 miles. Made good 168 miles. Amount of current 22 miles, direction N. 43° W.

STATION 68.

Station 68 (Sounding 132), Bermuda to Azores (see Chart 6 and Diagram 3).

June 24, 1873 ; lat. 38° 3' N., long. 39° 19' W.

Temperature of air at noon, 72°·5 ; mean for the day, 71°·2.

Temperature of water at surface, 70°·0 ; bottom, 36°·2.

Density at 60° F. :—

Surface,	1·02688	500 fathoms,	1·02605
150 fathoms,	1·02681	Bottom,	1·02612
250 "	1·02645		

Depth, 2175 fathoms ; deposit, Globigerina Ooze, containing 71·76 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 9.20 A.M. shortened and furled sails, and got up steam to trawl and sound. At 10 A.M. put trawl over, and at 12.30 P.M. sounded in 2175 fathoms. At 4.45 P.M. trawl came up with a few specimens. The carbonic acid was determined in the bottom water, and amounted to 53·6 milligrammes per litre.