

STATION 6. although there was a great deal of motion on the surface of the sea. At 4 P.M. sounded in 2950 fathoms, and at 7.30 P.M. proceeded under all plain sail.

Distance at noon from Sombrero Island, 2013 miles. Made good 164 miles. Amount of current 9 miles, direction S. 77° W.

STATION 7.

Station 7 (Sounding 51), Tenerife to Sombrero (see Chart 6 and Diagram 1).

February 24, 1873 ; lat. 23° 23' N., long. 31° 31' W.

Temperature of air at noon, 67°·8 ; mean for the day, 67°·5.

Temperature of water at surface, 68°·0 ; bottom, 36°·9.

Density at 60° F. at surface, 1·02763 ; bottom, 1·02609.

Depth, 2750 fathoms ; deposit, Red Clay, containing 4·11 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 3 P.M. shortened sail and got up steam to sound, and at 4.30 P.M. sounded in 2750 fathoms. At 7.30 P.M. proceeded under all plain sail.

Distance at noon from Sombrero Island, 1841 miles. Made good 172 miles. Amount of current 10 miles, direction S. 61° W.

STATION 8.

Station 8 (Sounding 52), Tenerife to Sombrero (see Chart 6 and Diagram 1).

February 25, 1873 ; lat. 23° 12' N., long. 32° 56' W.

Temperature of air at noon, 72°·8 ; mean for the day, 68°·6.

Temperature of water :—

Surface,	67·0	600 fathoms,	44·0
100 fathoms,	64·5	700 "	42·5
200 "	59·0	800 "	41·6
300 "	53·4	900 "	40·8
400 "	49·0	1000 "	40·0
500 "	46·0	Bottom,	37·0

Density at 60° F. at surface, 1·02773 ; bottom, 1·02613.

Depth, 2700 fathoms ; deposit, Red Clay, containing 16·42 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 6.30 A.M. the dredge was put over, with 2 cwt. attached 500 fathoms from the dredge, and 3500 fathoms of rope. At 7.30 A.M. sounded in 2700 fathoms. A series of temperatures was obtained at intervals of 100 fathoms down to 1000 fathoms. At 5.15 P.M. dredge came up quite empty, probably never having reached the bottom. Whilst sounding the current-drag was tried, and indicated a south-western current.

Sombrero Island distant at noon, 1730 miles. Made good 111 miles. Amount of current 21 miles, direction S. 7° W.