

10 A.M. put dredge over, and veered 2700 fathoms. Obtained a series of temperatures at intervals of 100 fathoms down to 600 fathoms. At 4 P.M. dredge became entangled at the bottom, but was cleared, and came up empty at 5.30 P.M. At 6 P.M. made all plain sail. Weather cloudy with rain. STATION 136.

Distance at noon from Cape of Good Hope, 1293 miles. Made good 119 miles. Amount of current 7 miles, direction N. 65° E.

Station 137 (Sounding 227), Tristan da Cunha to Cape of Good Hope (see Chart 16 and Diagram 6). STATION 137.

October 23, 1873; lat. 35° 59' S., long. 1° 34' E.

Temperature of air at noon, 54°·3; mean for the day, 52°·9.

Temperature of water:—

Surface,	56·1	450 fathoms,	39·4
50 fathoms,	56·0	500 "	38·7
100 "	55·6	700 "	37·0
150 "	54·3	900 "	36·8
200 "	51·8	1100 "	36·6
250 "	47·9	1300 "	36·5
300 "	44·6	1500 "	36·4
350 "	42·3	Bottom,	34·5
400 "	40·4		

Density at 60° F.:—

Surface,	1·02637	300 fathoms,	1·02569
100 fathoms,	1·02605	400 "	1·02556
200 "	1·02595	Bottom,	1·02585

Depth, 2550 fathoms; deposit, Globigerina Ooze, containing 35·22 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 6.30 A.M. shortened and furled sails, and got up steam to sound and dredge. Put dredge over, and veered 3000 fathoms. At 9 A.M. sounded in 2550 fathoms. At 11 A.M. obtained serial temperatures down to 1500 fathoms. At 1.30 P.M. commenced heaving in dredge, which came up at 3.30 P.M. with a few specimens. At 3.45 P.M. made sail.

Distance at noon from Cape of Good Hope, 850 miles. Made good 82 miles. Amount of current 10 miles, direction N. 51° E.