

STATION 270.

Temperature of water :—

Surface,	79.5	180 fathoms,	52.6
10 fathoms,	78.7	190 "	52.3
20 "	77.7	200 "	52.0
30 "	77.0	300 "	48.3
40 "	76.2	400 "	45.0
50 "	75.5	500 "	42.7
60 "	75.3	600 "	40.6
70 "	75.3	700 "	39.5
80 "	72.8	800 "	38.7
90 "	67.3	900 "	38.0
100 "	62.8	1000 "	37.7
110 "	59.1	1100 "	37.3
120 "	56.5	1200 "	37.0
130 "	55.0	1300 "	36.7
140 "	54.2	1400 "	36.3
150 "	53.5	1500 "	36.0
160 "	53.2	Bottom,	34.6
170 "	52.9		

Density at 60° F. :—

Surface,	1.02621	300 fathoms,	1.02575
25 fathoms,	1.02591	400 "	1.02572
50 "	1.02572	2500 "	1.02575
100 "	1.02567	Bottom,	1.02578
200 "	1.02572		

Depth, 2925 fathoms; deposit, Globigerina Ooze, containing 71.47 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 4.15 A.M. shortened and furled sails. At 5.30 A.M. proceeded under steam. At 6 A.M. sounded in 2925 fathoms. There were about six inches of ooze in the tube, the lower part pure white and gradually becoming brown on the upper surface. The white lower layer was nearly pure Globigerina Ooze, while the upper brown layer seemed to be composed of equal parts of siliceous and calcareous organisms. Took serial temperatures down to 1500 fathoms. At 8.30 A.M. temperature line fouled the screw. Stopped and lowered whaler to inspect the line; raised screw and cleared the line. At noon completed observations and made all plain sail.

Venus Point, Tahiti, distant at noon, 1203 miles. Made good 104 miles. Amount of current 55 miles, direction S. 76° W.

The following species of Deep-Sea Keratosa and Radiolaria were observed in the deposit from this Station (see also Murray and Renard, Deep-Sea Deposits Chall. Exp.) :—