

STATION 183.

Temperature of water :—

Surface,	78·0	500 fathoms,	39·3
50 fathoms,	76·2	600 „	38·4
100 „	69·5	700 „	37·9
150 „	61·5	800 „	37·5
200 „	54·5	900 „	37·1
250 „	48·9	1100 „	36·3
300 „	45·0	1300 „	36·0
350 „	42·8	1500 „	36·0
400 „	41·2	Bottom,	36·0

Density at 60° F.:—

Surface,	1·02630	300 fathoms,	1·02580
100 fathoms,	1·02643	400 „	1·02596
200 „	1·02595	Bottom,	1·02594

Depth, 1700 fathoms; deposit, Globigerina Ooze, containing 53·57 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 9 A.M. got up steam. At 11.15 A.M. shortened and furled sails, proceeded under steam, and at 12.30 P.M. sounded in 1700 fathoms. Obtained serial temperatures down to 1500 fathoms. The carbonic acid was determined in bottom water, and amounted to 60·9 milligrammes per litre. At 3 P.M. completed observations and made all plain sail. A large shark, apparently different from those taken lately, was hooked, but the line carried away. Many stormy petrels and boatswain birds were observed.

Raine Island distant at noon, 174 miles. Made good 136 miles. Amount of current 2 miles, direction W.

ORGANISMS FROM
SURFACE-NETS.

Surface Organisms.—The tow-nets yielded the same things as on previous days.

STATION 184.

Station 184 (Sounding 314), Fiji to Raine Island (see Chart 27 and Diagram 13).

August 29, 1874; lat. 12° 8' S., long. 145° 10' E.

Temperature of air at noon, 78°·8; mean for the day, 77°·1.

Temperature of water :—

Surface,	77·5	225 fathoms,	51·0
50 fathoms,	76·6	250 „	48·0
75 „	74·3	300 „	44·3
100 „	70·8	350 „	42·1
125 „	66·8	400 „	41·0
150 „	62·5	500 „	39·7
175 „	58·2	Bottom,	36·0
200 „	54·2		