

**Station 318** (Sounding 468), Falkland Islands to Rio de la Plata (see Chart 42 and Diagram 22). STATION 318.

February 11, 1876 ; lat.  $42^{\circ} 32'$  S., long.  $56^{\circ} 29'$  W.

Temperature of air at noon,  $56^{\circ} \cdot 8$  ; mean for the day,  $56^{\circ} \cdot 7$ .

Temperature of water :—

Surface, . . . . .	57·5	300 fathoms, . . . . .	35·4
25 fathoms, . . . . .	56·7	400 " . . . . .	35·4
50 " . . . . .	43·2	800 " . . . . .	35·4
75 " . . . . .	39·6	900 " . . . . .	35·4
100 " . . . . .	36·5	1000 " . . . . .	35·4
125 " . . . . .	35·9	1100 " . . . . .	35·4
150 " . . . . .	35·6	1200 " . . . . .	35·4
175 " . . . . .	35·4	1300 " . . . . .	35·4
200 " . . . . .	35·4	1400 " . . . . .	35·4
225 " . . . . .	35·4	1500 " . . . . .	35·4
250 " . . . . .	35·4	Bottom, . . . . .	33·7
275 " . . . . .	35·4		

Density at  $60^{\circ}$  F. :—

Surface, . . . . .	1·02524	300 fathoms, . . . . .	1·02508
25 fathoms, . . . . .	1·02526	400 " . . . . .	1·02519
50 " . . . . .	1·02514	800 " . . . . .	1·02568
100 " . . . . .	1·02511	Bottom, . . . . .	1·02584
200 " . . . . .	1·02509		

Depth, 2040 fathoms ; deposit, Globigerina Ooze, containing 32·69 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 4.45 A.M. got up steam. At 9 A.M. shortened and furled sails, and proceeded under steam to sound and trawl. At 10 A.M. sounded in 2040 fathoms. Put trawl over. Obtained serial temperatures down to 1500 fathoms. The carbonic acid was determined in surface water, and amounted to 38·5 milligrammes per litre. At 4 P.M. commenced heaving in trawl, which came up at 6 P.M., containing a few Crustaceans, &c., but, although the trawl must have been near, it showed no signs of having touched the bottom. At 7.10 P.M. made sail. Albatrosses, mutton birds, black night hawks, prions, and Thalassidromas were seen.

Lobos Island distant at noon, 456 miles ; Valdes Peninsula, east coast of South America, distant about 300 miles. Made good 176 miles. Amount of current 13 miles, direction N.  $33^{\circ}$  E.

The following species are recorded in the Zoological Reports from the trawl at this Station :—