

Temperature of water :—

STATION 301.

Surface,	59·5	125 fathoms,	48·4
25 fathoms,	57·4	150 "	46·5
50 "	55·2	175 "	45·2
75 "	52·8	200 "	44·2
100 "	50·5	300 "	42·0

Density at 60° F. :—

Surface,	1·02539	100 fathoms,	1·02517
25 fathoms,	1·02521	200 "	1·02521
50 "	1·02519	300 "	1·02521

Depth (1800 fathoms).

At 11.15 A.M. shortened and furled sails, proceeded under steam, and obtained temperatures down to 300 fathoms. At 1 P.M. completed temperatures and proceeded under steam and sail. *Diomedea exulans*, *Diomedea melanophrys* (?), *Procellaria maxima*, mutton birds, and *Thalassidromas* were seen.

Cape Tres Montes distant at noon, 684 miles; distance from Station 297, of November 11, 1875, 45 miles due E. Made good 40 miles. Amount of current 13 miles, direction N. 18° E.

Surface Organisms.—The tow-nets gave:—*Globigerina*, *Orbulina*, *Hastigerina*, *Acanthometrae* and other Radiolaria, Siphonophoræ, Copepods, *Salpæ*, &c.

ORGANISMS FROM
SURFACE-NETS.

Station 302 (Sounding 447), Valparaiso to Gulf of Peñas (see Chart 40 and Diagram 21). STATION 302.

December 28, 1875; lat. 42° 43' S., long. 82° 11' W.

Temperature of air at noon, 55°·8; mean for the day, 53°·5.

Temperature of water :—

Surface,	55·0	300 fathoms,	41·1
25 fathoms,	52·5	400 "	40·1
50 "	49·5	500 "	39·1
75 "	47·5	600 "	38·2
100 "	45·8	700 "	37·5
125 "	44·3	800 "	36·9
150 "	43·5	900 "	36·5
175 "	43·0	1000 "	36·2
200 "	42·5	1100 "	36·0
225 "	42·1	1200 "	35·9
250 "	41·8	1300 "	35·8
275 "	41·5	Bottom,	35·6