

STATION 348.

The tow-nets at the surface and down to 200 fathoms yielded an abundant harvest, including:—Many Oscillatoriaceæ, *Peridinium*, *Pyrocystis*, Diatoms, *Globigerina*, *Orbulina*, *Hastigerina*, *Pullenia*, *Sphæroidina*, *Pulvinulina*, Acanthometræ, Polycystinæ, Challengeridæ, and compound Radiolaria, Medusæ, Siphonophoræ, Echinoderm larvæ (Bipinnaria), *Sagitta*, *Alciopa*, *Tomopteris*, *Distomum* parasitic on *Sagitta*, *Cypridina*, various Copepods, Hyperids, *Rhabdosoma*, *Lucifer*, Gasteropod shells, *Atlanta*, *Acura pelagica*, various Pteropods, larvæ of *Cymbulia* (?) and *Pleuropus* [= *Cavolinia*], *Appendicularia*, *Doliolum*, and larval fishes. The sarcode of a large number of *Sphæroidinæ* was carefully examined, and frequently there were observed in the interior of the shells two large cells, some of them with a coarse granular appearance and others very much more minutely granular, but no conclusion was arrived at concerning their function or origin. Several sharks were about the ship, with suckers and pilot fishes, and two were caught.

STATION 349.

Station 349 (Sounding 499), Ascension Island to St. Vincent (see Chart 12).

April 10, 1876 ; lat. 5° 28' N., long. 14° 38' W.

Temperature of air at noon, 80°·3 ; mean for the day, 81°·9.

Temperature of water :—

Surface,	83·5	110 fathoms,	55·2
10 fathoms,	82·2	120 "	54·6
20 "	70·0	130 "	54·0
30 "	62·6	140 "	53·3
40 "	60·2	150 "	52·4
50 "	59·2	160 "	52·1
60 "	58·5	170 "	51·4
70 "	57·8	180 "	50·8
80 "	57·1	190 "	50·1
90 "	56·5	200 "	49·5
100 "	55·9		

Density at 60° F. :—

Surface,	1·02616	100 fathoms,	1·02620
25 fathoms,	1·02630	200 "	1·02599
50 "	1·02624	300 "	1·02583

At 6 A.M. a waterspout began to form about 8 miles to the S.W. and continued, varying in size, until 7.20 A.M. when it gradually disappeared ; it was only joined for a few minutes. At 1.25 P.M. stopped and took serial temperatures down to 200 fathoms, about 25 miles to the S.E. of Station 101, August 19, 1873. At 2.50 P.M. proceeded.

Cape Verde distant at noon, 588 miles. Made good 130 miles.