

STATION 72.

Temperature of water :—

Surface,	71·0	500 fathoms,	45·2
25 fathoms,	64·2	600 „	43·2
50 „	63·4	700 „	41·3
75 „	62·6	800 „	40·0
100 „	61·8	900 „	39·2
200 „	57·7	1000 „	38·5
300 „	52·5	1100 „	38·1
400 „	48·0	Bottom,	37·8

Density at 60° F. at surface, 1·02718.

Depth, 1240 fathoms; deposit, Pteropod Ooze, containing 81·59 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 4 P.M. shortened and furled sails, and got up steam to sound. At 4.30 P.M. sounded in 1240 fathoms. Obtained a series of temperatures down to 1100 fathoms. At 6.30 P.M. completed observations, and at 6.40 P.M. made all plain sail.

Distance from Fayal at noon, 210 miles, and from Flores, 114 miles. Made good 73 miles. Amount of current 15 miles, direction N. 57° E.

ORGANISMS FROM
THE DEPOSIT.

DIATOMACEÆ.—The following species of Diatoms were observed by Mr. Comber in the deposit from this Station, and shells of *Tellina* are recorded in the Station-book (see also Murray and Renard, Deep-Sea Deposits Chall. Exp.) :—

<i>Nitzschia marina</i> , Grunow.	<i>Coscinodiscus nodulifer</i> , Janisch.
<i>Grammatophora serpentina</i> , Ehrenberg.	„ <i>decrescens</i> , Grunow.
<i>Hemidiscus cuneiformis</i> , Wallich.	„ <i>radiatus</i> , Ehrenberg.
<i>Coscinodiscus excentricus</i> , Ehrenberg.	„ <i>africanus</i> , Janisch.
„ <i>lineatus</i> , Ehrenberg.	<i>Ethmodiscus</i> sp. (?)
„ <i>tumidus</i> , Janisch.	<i>Asteromphalus brookei</i> , Bailey.
„ <i>curvatulus</i> , Grunow.	<i>Bacteriastrum varians</i> , Lauder.

STATION 73.

Station 73 (Sounding 137), Bermuda to Azores (see Charts 6 and 10, and Diagram 3).

June 30, 1873; lat. 38° 30' N., long. 31° 14' W.

Temperature of air at noon, 68°·8; mean for the day, 68°·5.

Temperature of water :—

Surface,	69·0	600 fathoms,	43·4
100 fathoms,	59·8	700 „	42·0
200 „	57·0	800 „	41·0
300 „	54·0	900 „	40·0
400 „	49·0	Bottom,	39·4
500 „	45·5		