Diatoms. Oscillatoriaceæ (*Trichodesmium* ?) were present in considerable quantities in the tow-net, but in isolated small bundles, not in masses as they are said to occur frequently."

Station 13 (Sounding 57), Tenerife to Sombrero (see Chart 6 and Diagram 1).

March 4, 1873 ; lat. 21° 38′ N., long. 44° 39′ W.

Temperature of air at noon, 75°·3 ; mean for the day, 72°·9.

Temperature of water :—

Surface,	.	.	.	72·0	900 fathoms,	.	.	.	39·1
100 fathoms,	.	.	.	66·0	1000 ,,	.	.	.	38·7
200 ,,	.	.	.	60·3	1100 ,,	.	.	.	38·3
300 ,,	.	.	.	54·5	1200 ,,	.	.	.	38·0
400 ,,	.	.	.	49·5	1300 ,,	.	.	.	37·7
500 ,,	.	.	.	45·0	1400 ,,	.	.	.	37·4
600 ,,	.	.	.	42·0	1500 ,,	.	.	.	37·2
700 ,,	.	.	.	40·5	Bottom,	.	.	.	36·8
800 ,,	.	.	.	39·7					

Density at 60° F. :—

Surface,	.	.	.	1·02777	300 fathoms,	.	.	1·02661
200 fathoms,	.	.	1·02775	Bottom,	.	.	.	1·02695

Depth, 1900 fathoms ; deposit, Globigerina Ooze, containing 74·50 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 6 A.M. sounded in 1900 fathoms, and at 7.30 A.M. put over dredge with 1½ cwt. attached at 500 fathoms from it, with 2600 fathoms of rope. The tow-net had been out all night, and in the morning was found to contain some interesting specimens. At 10 A.M. sent down a stop-cock water-bottle to 300 fathoms, and slip water-bottle to the bottom, and obtained serial temperatures. At 1.30 P.M. commenced heaving in dredge, which came up about 4 P.M. with several specimens.

Sombrero Island distant at noon, 1074 miles. Made good 68 miles. Amount of current 16 miles, direction S. 73° W.

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

MACRURA (Spence Bate, Zool. pt. 52).

Willemœsia leptodactyla (Willemoes-Suhm), n.g., n.sp. One specimen (of a fine red colour when brought up) ; obtained also at Stations 133, 298, and 300, 1375 to 2225 fathoms. Recorded subsequently from off Sardinia ("Washington").

Bentheocaris stylorostratis, n.g., n.sp. Two specimens ; obtained at no other locality.