

STATION 10.

Station 10 (Sounding 54), Tenerife to Sombrero (see Chart 6 and Diagram 1).

February 28, 1873; lat. 23° 10' N., long. 38° 42' W.

Temperature of air at noon, 72°·8; mean for the day, 70°·7.

Temperature of water :—

Surface,	71·0	400 fathoms,	48·0
10 fathoms,	71·8	500 "	44·5
20 "	71·8	600 "	42·2
30 "	71·8	700 "	40·8
40 "	71·6	800 "	40·0
50 "	71·4	900 "	39·6
60 "	71·2	1000 "	39·2
70 "	70·5	1100 "	38·9
80 "	69·3	1200 "	38·6
90 "	68·2	1300 "	38·2
100 "	67·0	1400 "	37·9
200 "	58·0	1500 "	37·6
300 "	52·5	Bottom,	36·5

Density at 60° F. at surface, 1·02774; bottom, 1·02753.

Depth, 2720 fathoms; deposit, Red Clay, containing 13·30 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 7.30 A.M. sounded in 2720 fathoms. Obtained serial temperatures at intervals of 10 fathoms down to 100 fathoms, thence at intervals of 100 fathoms down to 1500 fathoms. The carbonic acid was determined in the bottom water, and found to amount to 40·0 milligrammes per litre.

Distance from Sombrero Island at noon, 1141 miles. Made good 110 miles. Amount of current 12 miles, direction S. 69° W.

ORGANISMS FROM
SURFACE-NETS.

Surface Organisms.—Moseley writes: "Went out in a boat about 1 P.M.; sun very hot and sea rough. I saw one *Verella* and caught a few Copepods, amongst them a *Corycæus*, and one or two Radiolarians, one of which last was a social one like *Collosphara*, but with an intensely violet coloration of the whole contents of each capsule, except the central vesicle. The surface was, however, on the whole very barren; in fact, as oceanic animals generally come to the surface usually in calm weather, it is difficult to understand what their habits must be in the region of the trades. Are there very few in that region? or do those there never come to the surface? or is the fauna different? Three flying fish were seen in the early morning, but they are very scarce."

Willemoes-Suhm made drawings of a small Copepod (male and female), which he thus describes: "It is 0·87 mm. long, and 0·35 mm. broad. The genus to which it belongs