

Density at 60° F. :—

STATION 15.

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| Surface, | 1·02768 | 500 fathoms, | 1·02722 |
| 300 fathoms, | 1·02648 | Bottom, | 1·02616 |

Depth, 2325 fathoms; deposit, Globigerina Ooze, containing 67·60 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 8 A.M. passed small quantity of gulf-weed. At 11.30 A.M. shortened and furled sails and got up steam to sound. At 1 P.M. sounded in 2325 fathoms, and sent down thermometer and slip water-bottle. At 2 P.M. life-boat was lowered, and naturalists went away to collect gulf-weed and surface animals; returned at 4.45 P.M. Took serial temperatures at intervals of 100 fathoms down to 1500 fathoms, and proceeded under all plain sail.

Sombrero Island distant at noon, 844 miles. Made good 126 miles. Amount of current 11 miles, direction N. 69° W.

Surface Organisms.—The following are recorded in the note-books as having been procured among the gulf-weed:—*Campanularia*; Dendrocœlous Planarians, *Spirorbis*; *Lepas*, *Balanus*, *Mysis*, *Palæmon* (?), *Nautilograpsus*, larger Brachyuran; *Scyllæa pelagica*; *Flustra*; *Antennarius*. A grampus and many flying-fish were seen this morning.

ORGANISMS FROM
THE SURFACE.

Moseley writes: "We now began to see plenty of patches of gulf-weed (*Sargassum bacciferum*). I was astonished at its light yellow colour, as I had only seen dark dried specimens. Amongst the weed procured with a boat were the nests of the well-known little fish *Antennarius*. The nests consist of irregularly spherical masses of the weed, fastened together by means of highly elastic threads, which look like wetted cotton, indeed I took it for such at first sight; in the centre of the masses are the eggs. A fish was caught and was observed to use his pectoral fin as a regular prehensile organ to lay hold of the weed with; the end of the long armed fin looks very like the hand of a frog."

Station 16 (Sounding 60), Tenerife to Sombrero (see Chart 6 and Diagram 1).

STATION 16.

March 7, 1873; lat. 20° 39' N., long. 50° 33' W.

Temperature of air at noon, 75°·8; mean for the day, 73°·1.

Temperature of water at surface, 74°·0; bottom, 36°·2.

Density at 60° F. :—

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|----------------------|---------|----------------------|---------|
| Surface, | 1·02770 | 400 fathoms, | 1·02615 |
| 200 fathoms, | 1·02679 | 500 " | 1·02753 |
| 300 " | 1·02660 | Bottom, | 1·02751 |

Depth, 2435 fathoms; deposit, Globigerina Ooze, containing 52·22 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).