

Density at 60° F. :—

STATION 29.

Surface, . . . . .	1·02739	400 fathoms, . . . . .	1·02640
100 fathoms, . . . . .	1·02782	500 " . . . . .	1·02612
200 " . . . . .	1·02708	Bottom, . . . . .	1·02607
300 " . . . . .	1·02672		

Depth, 2700 fathoms; deposit, Red Clay, containing 21·84 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 6.35 A.M. put dredge over. Shortened and furled sails, and got up steam to sound and dredge. At 9 A.M. sounded in 2700 fathoms. At 10 A.M. obtained serial temperatures. At 1 P.M. obtained specimens of water at different depths to ascertain the specific gravity. The carbonic acid was determined in surface water, and amounted to 48·0 milligrammes per litre. At 2.45 P.M. commenced heaving in dredge, which came up at 5 P.M. with a large quantity of Red Clay. On sifting the deposit the only animal of the higher groups obtained was a small bright scarlet Caridid shrimp, along with some large bottom-living Foraminifera. Numerous patches of gulf-weed passed the ship during the day.

Distance from Bermuda at noon, 266 miles. Made good 85 miles. Amount of current 14 miles, direction N. 55° E.

**Surface Organisms.**—After leaving St. Thomas, the tow-net was constantly put out, and yielded Oscillatoriaceæ and a few gulf-weed animals, but it was not till March 31 that the weed appeared in large patches, and the Crustacea, &c., inhabiting it were obtained in abundance. Several small, apparently young, flying fish, a *Syngnathus*, and two rather large specimens of *Antennarius* were caught, and Radiolaria were in enormous abundance.

ORGANISMS FROM  
SURFACE-NETS.

**Station 30** (Sounding 77), St. Thomas to Bermuda (see Chart 6 and Diagram 2).

STATION 30.

April 1, 1873; lat. 29° 5' N., long. 65° 1' W.

Temperature of air at noon, 76°·3; mean for the day, 73°·5.

Temperature of water at surface, 72°·0; bottom, 36°·5.

Density at 60° F. at surface, 1·02735; bottom, 1·02774.

Depth, 2600 fathoms; deposit, Red Clay, containing 28·88 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 10.30 A.M. shortened and furled sails. Lowered jolly-boat and second gig for collecting surface animals and gulf-weed, of which large quantities were seen in the course of the day. At 1 P.M. sounded in 2600 fathoms.

Distance from Bermuda at noon, 191 miles. Made good 76 miles. Amount of current 4 miles, direction N. 61° E.