

At 1.30 P.M. shortened and furled sails, and got up steam to sound. At 2 P.M. sounded in 2360 fathoms. At 4 P.M. obtained serial temperatures at intervals of 100 fathoms down to 1500 fathoms. The carbonic acid was determined in water from the surface and bottom, and amounted to 41.5 and 47.2 milligrammes per litre respectively. At 7.30 P.M. made all plain sail.

STATION 59.

Distance from Fayal at noon, 1720 miles. Made good 56 miles. Amount of current 19 miles, direction N. 38° E.

Surface Organisms.—Among the surface things were *Rhabdosoma*, *Oxycephalus*, and other Crustaceans.

ORGANISMS FROM
SURFACE-NETS.

Station 60 (Sounding 124), Bermuda to Azores (see Chart 6 and Diagram 3).

STATION 60.

June 16, 1873; lat. 34° 28' N., long. 58° 56' W.

Temperature of air at noon, 75°·3; mean for the day, 73°·0.

Temperature of water:—

Surface,	71.5	500 fathoms,	44.5
100 fathoms,	64.2	600 „	41.5
200 „	62.8	700 „	40.0
300 „	59.5	800 „	39.4
400 „	52.5	Bottom,	36.2

Density at 60° F. at surface, 1.02709; bottom, 1.02704.

Depth, 2575 fathoms; deposit, Globigerina Ooze, containing 31.38 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 5.20 A.M. shortened sail, and got up steam to sound. At 8 A.M. sounded in 2575 fathoms. At 10 A.M. put small trawl over. At 4.45 P.M. trawl came up, evidently not having reached the bottom, probably because there was more way on the ship than was supposed, a steady breeze blowing all the time. In the meshes of the trawl were found a few small surface and intermediate-water fishes. Obtained a series of temperatures at intervals of 100 fathoms down to 800 fathoms. A water-bottle was sent down attached to the sounding-line, and water from the bottom obtained. The carbonic acid was determined in the bottom water, and amounted to 50.0 milligrammes per litre.

Distance from Fayal at noon, 1482 miles. Made good 135 miles. Amount of current 12 miles, direction N. 33° E.

The following species are recorded from the trawl at this Station:—

ANIMALS FROM
TRAWL.

FISHES (Günther, Zool. pt. 57).

Gonostoma microdon, n.sp. Eight specimens; for distribution see Station 23.