

STATION 333.

Density at 60° F. :—

Surface,	1·02612	300 fathoms,	1·02558
25 fathoms,	1·02612	400 „	1·02546
50 „	1·02620	800 „	1·02571
100 „	1·02620	Bottom,	1·02584
200 „	1·02581		

Depth, 2025 fathoms; deposit, Globigerina Ooze, containing 88·97 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 4.30 A.M. shortened and furled sails, and got up steam. At 5 A.M. proceeded under steam to sound and trawl. At 5.30 A.M. sounded in 2025 fathoms. The sounding-tube had sunk about a foot into the deposit, but contained only a small quantity of the ooze. Laid out trawl and veered 2600 fathoms. Took serial temperatures. The carbonic acid was determined in water from 100 fathoms and bottom, and amounted respectively to 37·2 and 44·5 milligrammes per litre. At 11.30 A.M. commenced heaving in trawl. This Station is about 17 miles to the westward of Station 133 of October 11, 1873. Having crossed the old track shortly before stopping this morning, the Challenger to-day completed her circuit round the world. At 1.30 P.M. trawl came up with a few specimens, and a little deposit, while the tow-nets at the trawl and weights also contained some of the ooze. A new rope was used and it came in full of turns, and the trawl-net seemed to have been on its back. Made sail.

Tristan da Cunha distant at noon, 440 miles. Made good 146 miles. Amount of current 7 miles, direction S. 82° E.

ANIMALS FROM
TRAWL.

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

HEXACTINELLIDA (Schulze, Zool. pt. 53).

Caulocalyx tener, n.g., n.sp. One specimen; obtained at no other locality. Only species of the genus.

Hyalonema sp. (?). Fragment.

ANNELIDA (M'Intosh, Zool. pt. 34).

Buskiella abyssorum, n.g., n.sp. Obtained also at Stations 101 and 106. Only species of the genus.

CEPHALOPODA (Hoyle, Zool. pt. 44).

Histiopsis atlantica, n.g., n.sp. One specimen; obtained at no other locality. Only species of the genus.

In addition to the above, the Station-book records :—Young specimen of *Umbellula* with two polyps only, *Ophiothrix*, Holothurian, Polyzoon, and young *Ditrupa* attached to a Sponge spicule.