

Density at 60° F. :—

STATION 131.

Surface, . . . . .	1·02663	300 fathoms, . . . . .	1·02572
100 fathoms, . . . . .	1·02637	400 „ . . . . .	1·02548
200 „ . . . . .	1·02609	500 „ . . . . .	1·02580

Depth, 2275 fathoms; deposit, Globigerina Ooze, containing 55·63 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 7 A.M. shortened and furled sails, and got up steam to sound and trawl. Put trawl over. At 8 A.M. brought ship to wind, and sounded in 2275 fathoms. At 9.30 A.M. obtained serial temperatures at intervals of 100 fathoms down to 1000 fathoms. Obtained specimens of water from different depths. The carbonic acid was determined in water from 1000 fathoms, and amounted to 55·6 milligrammes per litre. At 3 P.M. commenced heaving in trawl, which came up at 4.30 P.M. nearly empty, containing only a polyp and a sandy Foraminiferous tube attached to the ear-bone of a *Ziphius*, a small piece of Cetacean bone, and two pieces of pumice, about the size of hens' eggs, one with egg-capsule of Mollusc (?) attached. At 5.40 P.M. made sail. About 8.45 P.M. the wind shifted very suddenly from W.N.W. to S.W. and then to S.E. by S. accompanied by rain. The first albatross was seen on October 4.

Distance at noon from Tristan da Cunha, 912 miles. Made good 55 miles. Amount of current 4 miles, direction S. 50° W.

**Surface Organisms.**—The following species are recorded from the surface near this Station (October 5, 1873) :—

ORGANISMS FROM  
SURFACE-NETS.

COPEPODA (Brady, Zool. pt. 23).

*Pontella strenua* (Dana).

AMPHIPODA (Stebbing, Zool. pt. 67).

*Scinã cornigera* (M.-Edwards).*Vibilia milnei*, n.sp.*Eupronoë inscripta*, n.sp.*Sympronoë propinqua*, n.g., n.sp.

SCHIZOPODA (Sars, Zool. pt. 37).

*Euphausia pellucida*, Dana.

MACRURA (Spence Bate, Zool. pt. 52).

*Sergestes longicollus*, n.sp.

Between 7 and 9 P.M. the tow-net procured many specimens of *Collosphæra* and *Physalia*, while between 9 and 11 P.M. *Phylliroë* and Crustacea, which were nearly or quite absent in the first haul, were taken. A lead was attached to the net, but, though the ship was going only 3 knots, it did not sink far below the surface. In addition to the organisms already mentioned, the following are recorded in the note-books :— Small Medusæ, *Diphyes*, *Alciopa*, *Tomopteris*, many Copepods, *Phronima*, *Cystisoma*, *Oxycephalus*, *Hyperia*, Isopod, *Lucifer* (two large, and a few small ones), *Atlanta*, *Styliola*, and *Cuvierina*.