

STATION 291.

Density at 60° F. :—

Surface,	1·02548	300 fathoms,	1·02536
25 fathoms,	1·02523	400 „	1·02533
50 „	1·02523	800 „	1·02546
100 „	1·02536	1775 „	1·02528
200 „	1·02516	Bottom,	1·02550

Depth, 2250 fathoms ; deposit, Red Clay.

At 4.20 A.M. shortened and furled sails. At 5 A.M. proceeded under steam, and at 5.30 A.M. sounded in 2250 fathoms. Inside the sounding-tube were two or three small pellets of Red Clay. At 7.15 A.M. put trawl over. Took serial temperatures down to 1500 fathoms. The carbonic acid was determined in water from 1775 fathoms and bottom, and amounted respectively to 42·3 and 46·4 milligrammes per litre. At 12.10 P.M. commenced heaving in trawl, which came up at 2.20 P.M. containing a few specimens, and a small manganese nodule with egg-capsule attached. The leads and ironwork of the trawl were covered in some places with streaks of the black peroxide of manganese, as if they had been hauled over a bottom where manganese was abundant. The following birds were noticed :—*Diomedea exulans*, *Diomedea melanophrys*, *Prioniturus*, *Procellaria capensis*, mutton birds, black night-hawks, a white bird of the size of the mutton bird, and a large black bird—probably either *Diomedea fuliginosa* or *Procellaria maxima*.

Valparaiso distant at noon, 2310 miles. Made good 102 miles. Amount of current 11 miles, direction E.

ANIMALS FROM
TRAWL.

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

MONAXONIDA (Ridley and Dendy, Zool. pt. 59).

Esperella biserialis, n.sp. One specimen ; obtained also at Station 281.*Axoniderma mirabile*, n.g., n.sp. Two specimens ; obtained at no other locality.

Only species of the genus.

In addition to the foregoing, the following are recorded in the Station-book :—Tubularian Hydroid with stout arborescent chitinous stem, and with small Campanularian (?) upon it, mutilated fragment of a very delicate Polyzoon, single limb of a shrimp.

ORGANISMS FROM
SURFACE-NETS.

Surface Organisms.—The following species of Radiolaria are recorded from the surface at this Station :—