

STATION 302.

Density at 60° F. :—

Surface,	1.02531	300 fathoms,	1.02534
25 fathoms,	1.02504	400 „	1.02535
50 „	1.02514	800 „	1.02557
100 „	1.02522	950 „	1.02564
200 „	1.02538	Bottom,	1.02562

Depth, 1450 fathoms; deposit, Globigerina Ooze, containing 82.31 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 4 A.M. shortened and furled sails, and proceeded under steam. At 6 A.M. sounded in 1450 fathoms. At 7 A.M. put trawl over and veered 2000 fathoms. Obtained serial temperatures down to bottom. The carbonic acid was determined in water from 200, 400, and 800 fathoms, and bottom, and amounted respectively to 47.3, 48.8, 53.2, and 55.6 milligrammes per litre. At 1 P.M. commenced heaving in trawl, which came up at 4.15 P.M. with numerous specimens, about a peck of the ooze, in which were numerous manganese nodules, some volcanic pebbles, and pieces of rock. At 4.30 P.M. made all plain sail. Molly mauks, stinkers (*Procellaria maxima*), mutton birds, and Cape pigeons were seen, and a molly mauk was shot, but a boat could not be lowered to pick it up.

Cape Tres Montes distant at noon 382 miles. Made good 100 miles. Amount of current 10 miles, direction W.

ANIMALS FROM
TRAWL.

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

TETRACTINELLIDA (Sollas, Zool. pt. 63).

Thenia wrightii, n.sp. Six specimens; obtained at no other locality.

ECHINOIDEA (Agassiz, Zool. pt. 9).

Urechinus naresianus, n.g., n.sp. Six specimens; obtained also at Stations 146, 147, and 158. Only species of the genus.

HOLOTHURIOIDEA (Théel, Zool. pts. 13 and 39).

Peniagone vitrea, n.g., n.sp. Several specimens; obtained at no other locality.

Pseudostichopus villosus, n.g., n.sp. One specimen; for distribution see Station 61.

Holothurian, (fragmentary specimen indeterminable).

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

Vermilia (?) sp. One specimen.