

Density at 60° F.:—

Surface,	1·02533	300 fathoms,	1·02539
25 fathoms,	1·02538	400 „	1·02541
50 „	1·02527	800 „	1·02536
100 „	1·02536	2075 „	1·02554
200 „	1·02538	Bottom,	1·02565

Depth, 2550 fathoms; deposit, Red Clay, containing no carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 4.30 A.M. shortened and furled sails, and proceeded under steam. At 6 A.M. sounded in 2550 fathoms. No trace of the bottom was found in the sounding-tube, nor adhering to the outside. At 7 A.M. put trawl over and veered 3100 fathoms. Obtained serial temperatures down to 1500 fathoms. The carbonic acid was determined in bottom water, and amounted to 47·4 milligrammes per litre. At 1 P.M. commenced heaving in trawl, which came up at 3.20 P.M. containing several specimens, over a bushel of manganese nodules, three large earbones of Cetaceans, fragments of bones, and two sharks' teeth, all deeply embedded in manganese. At 3.30 P.M. made all plain sail. The usual birds, as noted at the last two Stations, were about the ship.

Valparaiso distant at noon, 2907 miles. Made good 18 miles. Amount of current 7 miles, direction N. 7° W.

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

ANIMALS FROM
TRAWL.

HEXACTINELLIDA (Schulze, Zool. pt. 53).

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

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

Hyalonema (Stylocalyx) tenerum, n.sp. Two specimens; obtained at no other locality.

ASTEROIDEA (Sladen, Zool. pt. 51).

Freyella benthophila, n.sp. Two specimens; obtained at no other locality. Recorded subsequently from Indian Ocean ("Investigator").

PHYLLOCARIDA (Sars, Zool. pt. 56).

Nebaliopsis typica, n.g., n.sp. One specimen; obtained also at Station 146. Only species of the genus.

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

Hepomadus inermis, n.g., n.sp. One specimen; obtained at no other locality.

Gennadas parvus, n.g., n.sp. One specimen; for distribution see Station 45.