

Density at 60° F. :—

STATION 230.

Surface,	1·02606	200 fathoms,	1·02561
25 fathoms,	1·02582	300 „	1·02551
50 „	1·02579	400 „	1·02509
100 „	1·02583		

Depth, 2425 fathoms; deposit, Red Clay, containing no carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 3.15 A.M. shortened and furled sails, and got up steam. At 5.15 A.M. stopped, and at 6 A.M. sounded in 2425 fathoms; the tube brought up a considerable quantity of Red Clay. At 8 A.M. put over trawl. At 10 A.M. obtained serial temperatures down to 1500 fathoms. In the forenoon sent whaler away to collect surface animals. Sent down two pressure gauges, water-bottle, and a series of small wooden blocks of different kinds of wood to test the effect of pressure at great depths. The carbonic acid was determined in water from 50 fathoms, and amounted to 32·8 milligrammes per litre. At 4.45 P.M. hove up trawl with only a few pumice-stones, some shrimps, two fishes, and a Brachiopod on one of the pumice-stones. Made sail. Several sooty albatrosses were seen, and one was taken with hook and line, also a few white albatrosses, black prions, light-coloured prions, black and white petrels. A booby (*Sula fusca*) alighted on one of the quarter boats and was caught. On the 7th a flock of swallows (*Hirundo gutturalis*) alighted on the ropes and ports of the ship in an exhausted condition, and four or five were caught by the hand; their stomachs were well filled with insect remains. A thrush-like bird and several finches were also seen.

Distance at noon from No Sima lighthouse, 514 miles; from Redfield Rocks, 448 miles. Made good 56 miles. Amount of current 4 miles, direction W.

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

ANIMALS FROM
TRAWL.

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

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

Acanthephyra sica, n.sp. Two specimens; for distribution see Station 40.

Tropiocaris planipes, n.g., n.sp. One specimen; obtained at no other locality.

The only other species of the genus (*Tropiocaris tenuipes*) was taken at Station 184.

FISHES (Günther, Zool. pt. 57).

Gonostoma gracile, n.sp. One specimen; obtained also at Station 232, 345 fathoms.

In addition to the foregoing, the Station-book records a Brachiopod on pumice-stone, and another Sternoptychid fish, 2½ inches in length.