

STATION 146.

AMPHIPODA (Stebbing, Zool. pt. 67).

Ethemisto thomsoni, Stebbing.

SCHIZOPODA (Sars, Zool. pt. 37).

Thysanoëssa macrura, n.sp.

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

Caricyphus angulatus, n.g., n.sp.

PTEROPODA (Pelseneer, Zool. pt. 65).

Limacina australis (Eydoux and Souleyet).

The tow-net was sent down to 80 fathoms, and brought up:—*Globigerina*, very much smaller than in the Atlantic, compound Radiolaria, many *Sagittæ*, small Copepods, a large species of *Hyperia*, Pteropods, and *Cranchia*.

STATION 147.

Station 147 (Sounding 239), Marion Island to Crozet Islands (see Chart 18).

December 30, 1873; lat. 46° 16' S., long. 48° 27' E.

Temperature of air at noon, 48°·3; mean for the day, 45°·5.

Temperature of water:—

Surface,	41·0	600 fathoms,	36·2
50 fathoms,	40·0	800 „	36·0
100 „	37·4	1000 „	35·8
200 „	37·1	Bottom,	34·2
400 „	36·4		

Density at 60° F.:—

Surface,	1·02515	300 fathoms,	1·02534
100 fathoms,	1·02512	400 „	1·02536
200 „	1·02535	Bottom,	1·02550

Depth, 1600 fathoms; deposit, Diatom Ooze, containing 34·63 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 8 A.M. got up steam. At 9.20 A.M. shortened and furled sails, and proceeded under steam to sound and trawl. At 10 A.M. put trawl over, veering 2000 fathoms. At 11 A.M. sounded in 1600 fathoms. At 1.20 P.M. obtained serial temperatures. The carbonic acid was determined in water from the surface and 100 fathoms, and amounted respectively to 54·2 and 56·9 milligrammes per litre. At 4.45 P.M. the trawl came up with numerous specimens,—even a more remarkable haul than yesterday's. A tow-net was sent down on the trawl line, but did not work successfully. At 4.50 P.M. made all plain sail. At 10.15 P.M. observed Hog Island on port bow. In the course of the day saw several albatrosses, Cape pigeons, many prions, and a few petrels. About 7 P.M. several whales were in sight.