

Station 159 (Sounding 263), Termination Land to Melbourne (see Chart 24 and Diagram 10). STATION 159.

March 10, 1874; lat. 47° 25' S., long. 130° 22' E.

Temperature of air at noon, 51°·3; mean for the day, 51°·2.

Temperature of water:—

|                       |      |                        |      |
|-----------------------|------|------------------------|------|
| Surface, . . . . .    | 51·5 | 800 fathoms, . . . . . | 38·3 |
| 50 fathoms, . . . . . | 50·0 | 900 " . . . . .        | 37·9 |
| 100 " . . . . .       | 49·0 | 1000 " . . . . .       | 37·7 |
| 150 " . . . . .       | 48·1 | 1100 " . . . . .       | 37·5 |
| 200 " . . . . .       | 47·4 | 1200 " . . . . .       | 37·3 |
| 300 " . . . . .       | 47·2 | 1300 " . . . . .       | 37·1 |
| 400 " . . . . .       | 46·9 | 1400 " . . . . .       | 36·9 |
| 500 " . . . . .       | 44·8 | 1500 " . . . . .       | 36·7 |
| 600 " . . . . .       | 41·8 | Bottom, . . . . .      | 34·5 |
| 700 " . . . . .       | 39·4 |                        |      |

Density at 60° F. at surface, 1·02566; bottom, 1·02564.

Depth, 2150 fathoms; deposit, Globigerina Ooze, containing 87·90 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 8 A.M. shortened sail and put over trawl. At 9.15 A.M. furled sails, brought ship to wind, and sounded in 2150 fathoms. At noon obtained a series of temperatures down to 1500 fathoms. The carbonic acid was determined in bottom water, and amounted to 52·6 milligrammes per litre. At 2 P.M. commenced heaving in trawl, which came up at 4 P.M. nearly empty, having probably been very near, but never reached, the bottom, as it contained no certain inhabitant of the bottom, nor any ooze. At 4.30 P.M. made sail. The following birds were observed about the ship in this locality:—*Diomedea exulans*, *Diomedea fulminata*, molly mawks, mutton birds, petrels, and some small light-coloured birds flying over the sea at a distance.

Distance at noon from Cape Otway, 780 miles. Made good 56 miles.

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

ANIMALS FROM  
TRAWL.

#### DEEP-SEA MEDUSÆ (Haeckel, Zool. pt. 12)

*Aeginura myosura*, n.g., n.sp. One specimen; obtained at no other locality. Only species of the genus.

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

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

*Petalidium foliaceum*, n.g., n.sp. One specimen; obtained also at Station 146. Only species of the genus.