

STATION 165c.

samples of water. At 3.30 P.M. completed observations and made all plain sail with a good breeze from the north.

Cape Farewell distant at noon, 334 miles. Made good 133 miles. Amount of current 28 miles, direction S. 39° W.

STATION 166.

Station 166 (Sounding 284), Sydney to New Zealand (see Chart 27 and Diagram 11).

June 23, 1874; lat. 38° 50' S., long. 169° 20' E.

Temperature of air at noon, 58°·8; mean for the day, 58°·6.

Temperature of water:—

Surface,	58·5	150 fathoms,	54·7
50 fathoms,	58·5	200 „	52·7
100 „	56·5	250 „	50·8

Density at 60° F. at surface, 1·02625; bottom, 1·02668.

Depth, 275 fathoms; deposit, Globigerina Ooze, containing 88·45 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 6 A.M. got up steam, and at 6.30 A.M. shortened and furled sails, and proceeded under steam to sound and trawl. Sounded in 275 fathoms; put trawl over. At 10 A.M. hove up trawl containing many specimens, and put it over again. The carbonic acid was determined in bottom water, and amounted to 53·8 milligrammes per litre. At 1 P.M. hove up trawl containing many specimens. The shrimps (*Pandalus magnoculus*) came up in great numbers in both hauls, and subsequently made their appearance on the dinner-table. At 1.30 P.M. made all plain sail. At 5.30 P.M. shortened sail, brought ship to wind, and sounded in 350 fathoms (Station 166A). At 10 P.M. brought ship to wind, and sounded in 400 fathoms, deposit Globigerina Ooze, containing 82·20 per cent. of carbonate of lime (Station 166B). At 10.35 P.M. proceeded under steam.

Distance at noon from Cape Farewell, 199 miles. Made good 141 miles. Amount of current 8 miles, direction S. 56° E.

ANIMALS FROM
TRAWL.

The following species are recorded in the Zoological Reports from the trawl at Station 166:—

SIPHONOPHORÆ (Haeckel, Zool. pt. 77).

Stephanalia bathyphysa, n.g., n.sp. Two specimens; obtained at no other locality.