

Station 107 (Sounding 178), St. Vincent to St. Paul's Rocks (see Chart 12 and Diagram 4). STATION 107.

August 26, 1873; lat. $1^{\circ} 22' N.$, long. $27^{\circ} 36' W.$

Temperature of air at noon, $78^{\circ} \cdot 3$; mean for the day, $77^{\circ} \cdot 4$.

Temperature of water at surface, $78^{\circ} \cdot 8$; bottom, $37^{\circ} \cdot 9$.

Density at $60^{\circ} F.$:—

Surface, . . .	1.02613	200 fathoms, . . .	1.02606
25 fathoms, . . .	1.02598	300 „ . . .	1.02617
50 „ . . .	1.02631	400 „ . . .	1.02567
90 „ . . .	1.02629		

Depth, 1500 fathoms; deposit, Globigerina Ooze, containing 80.47 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 10.30 A.M. shortened and furled sails, and got up steam to trawl and sound. Put trawl over, and veered 2000 fathoms. Lowered cutter to try current. At 12.30 P.M. sounded in 1500 fathoms. At 3.30 P.M. cutter returned; found current running W.N.W. at the rate of $1\frac{1}{2}$ miles per hour. At 4 P.M. commenced heaving in trawl, which came up at 5.30 P.M. with several specimens. The carbonic acid was determined in water from 50 fathoms, and amounted to 53.3 milligrammes per litre. At 5.40 P.M. made sail, and proceeded towards St. Paul's Rocks.

Distance at noon from St. Paul's Rocks, 169 miles. Made good 132 miles. Amount of current 21 miles, direction N. $84^{\circ} W.$

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

ANIMALS FROM
TRAWL.

AMPHIPODA (Stebbing, Zool. pt. 67).

Cystisoma spinosum (Fabricius). One specimen; for distribution see Station V.

SCHIZOPODA (Sars, Zool. pt. 37).

Gnathophausia affinis, n.g., n.sp. One specimen; obtained at no other locality.

„ *gracilis*, Willemoes-Suhm, n.g., n.sp. One specimen; obtained at no other locality. Recorded subsequently from Indian Ocean (“Investigator”).

Eucopia australis, Dana. For distribution see Station 50.

Bentheuphausia amblyops, n.g., n.sp. One specimen; obtained also at Stations 135 and 158, 1000 and 1800 fathoms.