

STATION 84.

At 4 A.M., daylight, observed Madeira Island astern. Under sail the whole forenoon, with a stiff breeze from the N.E., ship rolling occasionally. At 1.30 P.M. shortened and furled sails, and got up steam to obtain serial temperatures down to 1000 fathoms. At 3.45 P.M. completed temperatures, and at 4 P.M. made all plain sail. Depth here according to Admiralty charts about 2400 fathoms.

Distance at noon from Palma Island, Canaries, 115 miles; from St. Vincent, Cape Verdes, 920 miles. Made good 120 miles.

[*Stochasmus exilis* is given by Spence Bate, and *Ophiomitra chelys* by Lyman, as from this Station, but they are both evidently from Station 85.]

STATION 85.

Station 85 (Sounding 149), Madeira to Cape Verde Islands (see Charts 5 and 6, and Diagram 7).

July 19, 1873; lat. 28° 42' N., long. 18° 6' W.

Temperature of air at noon, 74°·8; mean for the day, 71°·7.

Temperature of water :—

Surface,	69·2	200 fathoms,	54·8
25 fathoms,	63·0	300 „	51·5
50 „	61·2	400 „	48·5
75 „	59·8	500 „	46·0
100 „	58·5		

Density at 60° F. at surface, 1·02735.

Depth, 1125 fathoms; deposit, Volcanic Mud, containing 6·54 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 8.30 A.M. shortened and furled sails, got up steam to sound, and sounded in 1125 fathoms. At 10 A.M. put dredge over. At 1.15 P.M. commenced heaving in dredge, which came up at 3 P.M. half full of mud, and with many specimens. Obtained a series of temperatures down to 500 fathoms. At 3.40 P.M. proceeded towards the dredging ground of Station 3 in the cruise from Tenerife to St. Thomas. Made good about 130 miles.

ANIMALS FROM
DREDGE.

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

ALCYONARIA (Wright and Studer, Zool. pt. 64).

Pleurocorallium johnsoni, Gray. Obtained also at Station 3.

Ceratoisis palmæ, n.sp. A few fragments; obtained at no other locality.