

Station 78 (Sounding 142), off the Azores (see Chart 10 and Diagram 3).

STATION 78.

July 10, 1873; lat. 37° 26' N., long. 25° 13' W.

Temperature of air at noon, 73°·8; mean for the day, 71°·5.

Temperature of water:—

Surface,	71·0	200 fathoms,	54·5
100 fathoms,	57·6	300 „	51·5
150 „	56·0		

Depth, 1000 fathoms; deposit, Volcanic Mud, containing 7·68 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 9.20 A.M. shortened and furled sails, and got up steam to sound and dredge. At 10 A.M. sounded in 1000 fathoms, and at 11 A.M. put dredge over, veering 1500 fathoms. Took serial temperatures down to 300 fathoms. At 3 P.M. dredge came up about three-quarters full of mud, and with many specimens. At 3.15 P.M. made all plain sail. At 4.20 P.M. observed Formigas Rocks on port bow. At 8.15 P.M. threw overboard one of Hohn's patent lights for experiment, and observed its light for 18 minutes.

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

ANIMALS FROM
DREDGE.

TETRACTINELLIDA (Sollas, Zool. pt. 63).

Tetilla sandalina, n.sp. Two specimens; obtained at no other locality.

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

Clavularia elongata, n.sp. Obtained at no other locality.

CORALS (Moseley, Zool. pt. 7).

Caryophyllia communis (Seguenza). Numerous specimens; for distribution see Station 45.

Deltocyathus italicus, M.-Edwards and Haime. Fifty specimens; for distribution see Station 24.

Stephanotrochus diadema, n.g., n.sp. One injured specimen; obtained also at Station 120, 675 fathoms.

Flabellum alabastrum, n.sp. Several specimens; obtained also at Station 73.

Bathyactis symmetrica (Pourtales). Several specimens; for distribution see Station 24.

ASTEROIDEA (Sladen, Zool. pt. 51).

Plutonaster abbreviatus, n.g., n.sp. Obtained at no other locality.