

Station 27 (Sounding 74), St. Thomas to Bermuda (see Chart 6 and Diagram 2).

STATION 27.

March 28, 1873; lat. 22° 49' N., long. 65° 19' W.

Temperature of air at noon, 76°·3; mean for the day, 75°·6.

Temperature of water:—

Surface, °	75·5	900 fathoms, °	39·4
100 fathoms, °	72·5	1000 " °	39·0
200 " °	64·7	1100 " °	38·7
300 " °	57·0	1200 " °	38·4
400 " °	49·7	1300 " °	38·1
500 " °	45·0	1400 " °	37·8
600 " °	42·2	1500 " °	37·5
700 " °	40·8	Bottom, °	36·2
800 " °	40·0		

Density at 60° F. at surface, 1·02710; bottom, 1·02601.

Depth, 2960 fathoms; deposit, Red Clay, containing 3·25 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 6.15 A.M. shortened and furled sails, and got up steam to sound. At 8 A.M. sounded in 2960 fathoms. At noon took a series of temperatures at intervals of 100 fathoms down to 1500 fathoms. The carbonic acid was determined in the bottom water, and amounted to 53·0 milligrammes per litre. Completed sounding at 2 P.M., and made all plain sail. Two sharks with white fins, about 5 or 6 feet long, swam backwards and forwards near the ship for a long time while sounding; the sailors called them shovel-nosed sharks.

Distance from Bermuda at noon, 566 miles. Made good 89 miles. Amount of current 24 miles, direction N. 44° W.

Station 28 (Sounding 75), St. Thomas to Bermuda (see Chart 6 and Diagram 2).

STATION 28.

March 29, 1873; lat. 24° 39' N., long. 65° 25' W.

Temperature of air at noon, 77°·8; mean for the day, 74°·8.

Temperature of water:—

Surface, °	75·0	800 fathoms, °	40·0
50 fathoms, °	74·0	900 " °	39·5
100 " °	67·2	1000 " °	39·1
150 " °	64·6	1100 " °	38·7
200 " °	63·5	1200 " °	38·4
300 " °	58·3	1300 " °	38·1
400 " °	51·8	1400 " °	37·8
500 " °	45·2	1500 " °	37·5
600 " °	42·3	Bottom " °	36·3
700 " °	41·0		