

Two additional series of temperature soundings were taken at this station—one at intervals of 10 fathoms down to 100, and a second at the odd fifties down to 450. These soundings completed and entirely corroborated the first series.

10 fathoms.....	22°·8 C.	60 fathoms.....	20°·3 C.
20 " .....	22 ·1	70 " .....	19 ·6
30 " .....	21 ·9	80 " .....	19 ·2
40 " .....	21 ·2	90 " .....	18 ·0
50 " .....	20 ·9	100 " .....	18 ·3

50 fathoms.....	21°·0 C.	350 fathoms.....	12°·4 C.
150 " .....	17 ·6	450 " .....	8 ·2
250 " .....	16 ·1		

Slip water-bottles were used to bring up samples of water from different depths for the determination of the specific gravity and for analysis.

On the 1st of April the mud brought up from 2600 fathoms was the same as that dredged the day before, and it seemed to give so little promise of a successful haul that we did not repeat the operation. The second gig was sent out to bring in some of the patches of gulf-weed which were passing the ship in large numbers, and to collect surface animals.

On the 2d of April, at a distance of 134 miles from Bermudas, a series of temperature soundings were taken at intervals of 20 fathoms from the surface to 300 fathoms, with the following result:

Surface.....	20°·9 C.	160 fathoms.....	17°·9 C.
20 fathoms.....	19 ·5	180 " .....	17 ·7
40 " .....	19 ·4	200 " .....	16 ·7
60 " .....	19 ·3	225 " .....	17 ·4
80 " .....	18 ·9	250 " .....	16 ·8
100 " .....	19 ·0	275 " .....	16 ·5
120 " .....	18 ·6	300 " .....	15 ·9
140 " .....	17 ·7		

It will be seen by reference to Plate IX. that not only does the layer of superheated water maintain its position, but its