ature observations taken during this early part of the cruise were not so numerous or so complete as we could have wished. The bottom temperatures are given in Appendix A of this chapter. Those off the coast of Portugal corresponded very closely with the observations made in the *Porcupine* in 1870, and in the *Shearwater* in 1871.

A serial sounding was taken on the 15th of January off Cape St. Vincent, which showed a great uniformity in the temperature at that season for the first 200 fathoms:

Surface	16°·1 C.	125	13°.6 C.
25	15 .2	150	12 .8
50	15 .5	175	12 .8
75	15 .3	200	12 .5
100	14 .2		

and another near the island of Gomera on the 12th of February, at intervals of 10 and 20 fathoms, gave the same result:

Surface	18°.3 C.	120	16°.3 C.
10	18 .0	140	15 .7
20	17 .9	160	
30	17 .9	180	
40	17 .8	200	
50	17 .8	220	
60	17 .7	240	
70	17 .7	260	
80	17 .6	280	
90		300	The second secon
100	16 .6		

A sounding taken at the same station at intervals of 100 fathoms down to 1000, showed an entire modification in the distribution of the band of abnormally warm water between 300 and 800 fathoms, which presents so marked a feature in the temperature sections off the west coast of Europe:

	G		
*	Surface 18°-9 C.	600	7°.2 C.
	100 15 0	700	6 .4
	200 13 ·2	800	5 .2
	300 10 ·8	900	4 .7
	400 9 · 0 500 7 · 6	1000	3 .4
	7 .6	1620—bottom	2 .3