

the influence of the Gulf Stream. Since that time, in the summer of 1837, I was employed in the survey of the shoal on George's Bank, and after having explored every part of it, am satisfied that the alleged dangers do not exist to the extent believed. During the continuance of that survey, I spoke and made inquiries of many masters of coasters, all of whom confirmed the fact of the existence of a stream of cold water between the Gulf Stream and soundings. In this cold and favouring stream, vessels homeward-bound may be kept without difficulty or danger, by a due attention to the indications of the thermometer and lead-line: the former showing when the adverse stream of the Gulf is entered, the latter, when the variable currents of the shore are met with, or the dangers approached. In the navigation of this part of the ocean, great attention ought to be paid to keep within this stream, by all those who desire to effect a speedy passage from Europe.

Circumstances afforded me a very favourable opportunity for observations upon the Gulf Stream. We met in it with light winds, which rendered our progress so slow, that we were forty-eight hours in crossing it, during thirty-nine of which we were sailing at right angles to its direction, a course the most favourable for the purpose. The remaining nine hours we were heading the stream. The fact of our having entered the stream was immediately detected by the thermometer, indicating a sudden rise of the temperature of the water; and the lightness of the wind enabled us to repeat the observations frequently. These observations are recorded in the following register.

Aug. 20.					TEMP. OF WATER.					Aug. 21.					TEMP. OF WATER.								
7 A. M.	.	.	.	.	77°	1 A. M.	.	.	.	.	80°	2 "	.	.	.	.	80	3 "	.	.	.	.	80
8 "	.	.	.	.	79	4 "	.	.	.	.	79	5 "	.	.	.	.	80	6 "	.	.	.	.	80
9 "	.	.	.	.	81	7 "	.	.	.	.	81	8 "	.	.	.	.	82	9 "	.	.	.	.	81
10 "	.	.	.	.	81	10 "	.	.	.	.	81	11 "	.	.	.	.	82	12 M.	.	.	.	.	82
11 "	.	.	.	.	81.5	12 M.	.	.	.	.	82.3	1 P. M.	.	.	.	.	83	2 "	.	.	.	.	83
12 M.	.	.	.	.	82.3	3 "	.	.	.	.	83	4 "	.	.	.	.	83	5 "	.	.	.	.	83
Aug. 21.						4 "	.	.	.	.	83	6 "	.	.	.	.	83	7 "	.	.	.	.	83
1 P. M.	.	.	.	.	83	5 "	.	.	.	.	83	8 "	.	.	.	.	82	9 "	.	.	.	.	81
2 "	.	.	.	.	83	6 "	.	.	.	.	83	10 "	.	.	.	.	82	11 "	.	.	.	.	82
3 "	.	.	.	.	83	7 "	.	.	.	.	83	12 M.	.	.	.	.	82	Aug. 22.					
4 "	.	.	.	.	83	8 "	.	.	.	.	83	1 P. M.	.	.	.	.	82	1 P. M.	.	.	.	.	82
5 "	.	.	.	.	83	9 "	.	.	.	.	83	2 "	.	.	.	.	82	2 "	.	.	.	.	82
6 "	.	.	.	.	83	10 "	.	.	.	.	83	3 "	.	.	.	.	80	3 "	.	.	.	.	80
7 "	.	.	.	.	83	11 "	.	.	.	.	82	4 "	.	.	.	.	80	4 "	.	.	.	.	80
8 "	.	.	.	.	82	12 M.	.	.	.	.	82	5 "	.	.	.	.	80	5 "	.	.	.	.	80
9 "	.	.	.	.	81	Aug. 22.						6 "	.	.	.	.	80	6 "	.	.	.	.	80
10 "	.	.	.	.	82	1 P. M.	.	.	.	.	82												
11 "	.	.	.	.	81	2 "	.	.	.	.	82												
12 "	.	.	.	.	80	3 "	.	.	.	.	80												
						4 "	.	.	.	.	80												
						5 "	.	.	.	.	80												
						6 "	.	.	.	.	80												