On account of the rapid fall of temperature from the surface to 30 fathoms, the following additional temperatures were taken, at the points mentioned.

		Off Cape North Aug. 17.	Station L. Aug. 13.	At centre of Strait Aug. 16.	Station P. Aug. 24
		0	0 50	°. Go	63
Frace Fathan	***************************************	64	56	54	57
do			43		
do		64	10	44	39
do		-	37		62.1
do		(51)	34	00	
da		41	34	37	34
do do		35	33	35	32
do (33	32	33	32

Deep Temperatures from 50 to 200 fathours, between St. Paul Island and Cape Ray. Taken with deep-sca reversing thermometers, left down for 5 to 15 minutes.

I. Temperatures on August 16th as already given.

II. At Station M, August 22nd ; surface current running 1-25 knots from the S.E.

III. At Station M, August 28th ; surface current running one knot from the S.S.F. IV. At Station P, at centre of Strait, August 30th. Surface current less than one knot per hour ; thermonicters left down for 10 to 12 minutes.

V. On a line running North (mag.) along the centre of the Strait. Temperatures at three points seven miles apart, September 27th.

Depth.	50 Fathoms.	100 Fathoms,	150 Fathouns,	200 Fathoms.
I	· - - - - - - - - - - - - - - - - - - -	$ \begin{array}{c} 383 \\ 383 \\ 37 \\ 39 \\ 40 \\ 41 \\ 37 \\ 39 \\ 39 \end{array} $	$\begin{array}{c} \hat{40}_{1}^{1} \\ 400_{1}^{1} \\ 400_{1}^{1} \\ 400_{1}^{1} \\ 400_{1}^{1} \\ 38 \\ 400_{1}^{1} \\ 400_{1}^{1} \end{array}$	$\begin{array}{c} & & \\ \hline & & \\ \hline & & \\ 393 \\ \hline & & \\ 40 \\ 391 \\ 40 \\ 391 \\ 40 \\ 391 \\ \hline & \\ 391 \\ 2 \\ \hline \\ 391 \\ \hline \\ \end{array}$
Mean	33.0	39.0	40.1	39.6

For comparison with this strait where warmer water occurs near the bottom, the temperatures were taken in the leep water in Bonne Bay. This bay is cut off from the see by a line of comparatively shallow water not exceeding 30 fathoms; and the East Arm is again separated from the rest of the bay by a bar on which there is only 7 fathoms, while the depth in the Arm itself exceeds 100 fathoms. This deep water in so isolated a situation would muturally take the order of density according to depth. The temperatures down to 100 fathoms were as follows :---

Surface	54	40	Faths.	 	 	 			 	 32
10 Faths	48	50	do	 	 • • •	 • • •		• •	 	 32
20 do	39	80	do	 	 	 • • •	• • •	• • •	 • • •	 31
30 do	31	100	do	 	 	 			 	 305

The decrease is thus regular, and in conformity with the density of sea-water which unlike fresh water, increases continuously in density as the temperature falls. and certa exce of wi the v comp infer haps fectl by th loss of volum the s the l

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