

round through S. and S.W. to W. The velocity throughout varied only from 0.50 to 0.79 of a knot per hour.

Near the north end of the Orphan Bank, at a station 30 miles E.S.E. from Bonaventure Island; on the night of Sept. 5th to 6th. Current ran from directions between N.N.W. and E.N.E. during 5 hours; then from directions between E. and S.E. during 4 hours; and again from westerly directions during 2 hours. The velocity throughout ranged from 0.64 to 1.45 knots per hour.

Off the east end of Anticosti, at a station 11 miles S.E. from Heath Point; on the night of Aug. 7th to 8th. Current during 4 hours ran from directions between W.S.W. and W. with an average velocity of 0.85 knot per hour.

At a station 29 miles E. by S. from Bird Rocks, on the night of Aug. 27th to 28th. Current from directions between E.S.E. and S. during 9 hours, with an average velocity of 0.78 knot per hour.

In the following records at the north-east and south-west ends of the Magdalen Islands, the currents appear to be more distinctly tidal in their character:—

At a station 7 miles off the south coast of Amherst Island, on the evening of Aug. 12th. Current during 2 hours from the S.E. and averaging about one knot.

At a station 6 miles off the south coast of Amherst Island, on the night of Aug. 29th to 30th. Current from the S.S.E. for 3 hours, and then from the N.W. for 5 hours. The current was stronger from the first direction than from the N.W.

At a station 4 miles E.N.E. from East Point, Coffin Island, on the night of Sept. 3rd to 4th. Current from directions between S.W. and S. for 9 hours, with a velocity ranging from 0.70 to 1.30; and then from directions between W. and N.W. for 2 hours with an average velocity of 0.70 knot per hour.

The nature of the current on the eastern side of Cabot Strait, is shown by the following observations, some of which were made in 1894:—

At a station 13 miles W. by N. from Cape Ray, on Aug. 22nd, 1894. Current during 5 hours from directions ranging from E. to S.S.E. with a velocity of a little over one knot.

Again at the same station continuous observations were obtained for 42 hours from Aug. 27th to 29th, 1894. During 37 hours out of this time, the current ran from a south-easterly direction, veering only from E.S.E. to S.S.E.; with an occasional variation as far as E.N.E. and S. for about an hour at a time. The velocity throughout the time varied from 0.62 to 1.28 knots per hour, with an average of about one knot.

At a station 12 miles W. by N. from Cape Ray, on August 23rd, 1895. Current during 2 hours ran about one knot per hour from the N.N.W.

The following table shows the constant character of the current on the western side of Cabot Strait, as observed at different dates in 1894 and 1895. The observations nearer to Cape North are given first; and then those eastward of St. Paul Island. Some of the determinations are obtained from the track of the vessel as plotted on the chart, while steering on definite courses to and from Cape North; and the remainder are from observations at anchorages.

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At 10 miles N.E.
At 9 miles N.E. by E.
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