

Diamond Line; J. G. Brock, of the Quebec SS. Co.; and also to the Gaspé and Baie des Chaleurs Line. The thanks of this department are due to these companies, and to the captains of their steamships for the trouble they have taken in the matter; and the notes made will undoubtedly prove of value.

The examination of the two entrances to the Gulf of St. Lawrence made last season to ascertain its relation to the Atlantic, and the more extensive investigations of the circulation in the interior of the gulf this year, have not only afforded important information with regard to the currents in the regions examined, but will also serve as a general basis from which to carry on with better advantage, the more thorough study of the nature of the currents in other regions of the gulf.

As the currents so far met with in the gulf area have usually had a strength of only one or two knots per hour, and have seldom attained three knots, they are very liable to disturbance from the wind. They seem also to be more or less influenced by the tides; which in their turn are affected by the barometer. To obtain complete information therefore, regarding these currents under all variety of conditions that can occur, will require much patient investigation. It is therefore, all the more necessary to direct special attention to the regions traversed by the leading steamship routes, in order that the results obtained may be of direct practical value.

I have, sir, the honour to remain,

Your obedient servant,

W. BELL DAWSON,

*In charge of Tidal Survey.*