

SURVEY  
OF  
TIDES AND CURRENTS  
IN  
CANADIAN WATERS

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OTTAWA, December 6, 1901.

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SIR,—I have the honour to submit the following Report on the progress of this Survey. The principal tidal stations have been maintained in continuous operation throughout the year, and considerable progress has been made in the reduction of the results, and in the use made of them to improve the tide tables now regularly issued. The most important step in advance as regards the tide tables, has been the issue of the new tables for British Columbia, which have been received with the highest expressions of appreciation. These were issued as soon as the increased appropriations of last year made it possible to do so. During the season, tidal observations have been taken at Vancouver, and observations of the current at the First Narrows, forming the entrance to that harbour. The results have been worked out promptly for issue with the tide tables for 1902; as well as additional information from other sources, in those regions. The further information thus embodied in the tide tables will be of much service to navigation on our West Coast.

The tidal observations secured last season on the Lower St. Lawrence have been fully worked up; and the outcome is given in the present Report. To make the information immediately available to navigators, it was issued in a preliminary form as a 'Notice to Mariners' in April last, before the opening of navigation on the St. Lawrence. These observations were so carried out as to make practically available for the first time the relations between tide and current previously determined during the progress of the Admiralty surveys of 1885 to 1889.

W. B. D.—7½