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### THE TIDE GAUGE AT ST. JOHN, N. B.

In 1892 the Dominion Government erected a tide gauge at St. John. Gauges have also been erected at St. Paul Island, Belleisle, Father Point, South-west Point (Anticosti) and Halifax.

The gauge column at St. John is situated in the south-east corner of the Reed's Point Wharf (latitude N.  $45^{\circ} 17'$ , longitude W.  $66^{\circ} 4'$ ). The timber shaft contains two tubes, one of which is used for the eye observation gauge, and the other for the Sir Wm. Thompson self-recording gauge.

It is proposed to operate this gauge for nineteen years (a lunar cycle). A bench-mark has been cut on the south-east corner of the Custom House. The clock plate of the self-recording gauge is 36.95 feet above zero on the eye observation gauge, and 23.03 feet below the bench-mark on the Custom House.

The establishment of the St. John gauge is of interest to geologists, as observations for a series of years would provide data for detection of earth movements.—S. W. K.

NOTE.—For further information see Proceedings Royal Society of Canada, Vol. VIII, pp viii-ix, 1890; Vol. X, pp. ix-x, 1892. Reports of Marine Department 1891, 1892, and 1893.