These observations have furnished simultaneous comparisons with St. Paul Island and Pictou; which afford the basis for the calculation of the tide tables published for Pictou and Charlottetown; and also for the tidal differences above given, which are published in the tide tables.

Locality.	Year.	Period of Tidal Record.	No. of Tides compared.		Port of Reference.
			H. W.	L. W.	
Lower Neguac	1896	3 months	102	.....	St. Paul Island.
Alberton	1896	11 days	13	.....	" "
St. Peters	1896	29 "	31	.....	" "
Neil Harbour	1901	2¾ months	130	116	" "
Port aux Basques	1901	3½ "	158	150	" "
Souris	1896	5½ "	165	156	Pictou.
Pictou	1896	6½ "	716	711	St. Paul Island.
"	1897	3½ "			
"	1901	6 "			
Charlottetown	1896	3 "	104	99	Pictou.
"	1901	5½ "	255	259	"
Cape Tormentine	1896	1½ "	58	67	"
Summerside	1901	5 "	236	231	"

NORTHUMBERLAND STRAIT.—TIDE LEVELS, AND LOW WATER DATUM.

Pictou, N.S.—The Bench-mark to which the levels are referred, is the surface of the stone door sill at its south end, in the door way of the Custom House building which faces the Harbour.

	Feet.
Elevation adopted for the Bench mark as above	100·00
Extreme High Water, which occurred during the 'August gale,' on August 9, 1873. The highest tide known, but not definitely recorded	
Exceptional High Water; a night tide in December, 1889, as marked by the Harbour Master at the time. It occurred during a gale from the north and north-west	90·86
Exceptional High Water of December 5, 1900; as marked at the time by Mr. Peter Fraser	89·72
Highest tide recorded by the tide-gauge during the season of 1896, from June 3, to November 27. Occurred during a storm on November 6	88·35
Highest tide recorded by the gauge during the season of 1897, from June 21 to November 30. Occurred during a storm on November 27	88·40
Several tides in these seasons reached elevation	87·65
Highest tide recorded by the gauge during the season of 1901, from May 20 to November 15. Occurred on October 1 (A storm tide on November 10, was 0·05 foot higher.)	87·85
LOW WATER DATUM, based upon the average elevation of the lower of the two Low Waters in the day, at spring tides, during the three seasons of 1896, 1897 and 1901 (This should be the same as the low water datum of the Charts, as nearly as can be ascertained by the observations of these three seasons.)	81·40
Lowest Low Waters recorded by the gauge in each of the three seasons, between the dates already given :—	
Season of 1896, on June 26	80·25
Season of 1897, on November 27	80·15
Season of 1901, on May 20	80·02
Zero of the scale of the tide gauge in 1896	80·16
" " " in 1901, set six inches lower than in 1896	79·66