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83 Inlet to the tide gauge, at 10 inches above the bett

it is a second to have a second of the date gauge	
cyinder	-11-64
Bottom of the foundation cylinder, filled with concrete	20.05

Extreme tides and Low Water datum at St. John.—The various extremes and averages here given, are referred to datum to correspond with the height in the Tide Tables and to show the relation of Low Water to the datum. The datum is at elevation 44.40 feet. The average level of Low Water in the seasons of 1898 and 1902 are given for comparison with the simultaneous observations at other localities in those years.

Feet.

Highoot T	11. 1. 11 ⁻		
ingnest fi	ugn wat	er m 1896, in October and November	28.70
••	66	in 1900, on March 2	29.10
66	66	in 1901, on November 26	28.70
66	66	in 1902, on June 8	98.00
46	66	in 1908, on February 1	00.70
66	66	in 1909, on February 20	20.10
66	66	in 1916, on January 5	29.00
Mean Sea	level abo	we datum: average of 10 complete years (12 and)	28.90
Average le	vel of L	Water at 13 Spring tides in the second for the	14.00
from .	June to N	You watch at 10 topping fides in the season of 1902,	
Average le	vol of L	We Wotop at 19 Casing Aller in Al	1.84
from	Juno to N	November	
Average	vol of L	Weaper at 04 Cl. 1. at 1. at 1.	1.68
weinge it	from Lub	ow water at 24 Spring tides during one complete	
year, . Maan T	from July	v 1899 to July 1900	1.70
Mean Low	water	at the lower Spring tide in each month during the	
same y	year, 189	9–1900	0.76
Low-water	datum,	the zero level of the Tide Tables; at elevation	
44.40	in the ge	meral tide levels	0.00
Lowest Lo	w Water	in 1900, on October 9 (below datum)	-0.75
66	66	in 1904, on March 2	-0.85
66	66	in 1905, on February 21.	-0.95
66	66	in 1907, on January 16.	-0.55
" "	46	in 1909, on January 24	-0.60
66	46	in 1914, on April 13	0.75
		· · · · · · · · · · · · · · · · · · ·	-0.19

As to the frequency of these extremely low tides, in the eight years 1901 to 1908 inclusive, there were only the three Low Waters, above indicated, which fell lower than 0.30 foot below datum.

Variation with the moon's distance.—The large variation in the level of Low Water when the moon's perigee falls at one of the Spring tides in the month and apogee at the other, is here shown as an example. The heights given are above or below the Low-water datum. When this inequality is so large relatively to other variations, it becomes advisable to base the Low-water datum on the average of the lower of the two Spring tides in each month. The level of High Water is similarly affected, and it would be an advantage to distinguish the rise at perigee and apogee Springs respectively, if full Tide Tables were not available. This characteristic of the tide is general throughout the Bay of Fundy.

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