

The tidal observations secured in 1896 at Carleton in Chaleurs Bay, and in 1897 at Chicoutimi at the head of the Saguenay, were also compared with Quebec and Father Point, to ascertain with which of these stations there was least variation in the difference of the time of the tide. The result showed that Carleton, and with it probably the whole of Chaleurs Bay, can better be referred to Father Point than to Quebec. On the other hand, Chicoutimi can best be referred to Quebec; this being probably due to the character of the tide, its form or type at the head of the long Saguenay estuary being more nearly similar to the tide at Quebec.

The results arrived at, from the reduction of all the observations, are given below; the localities above Quebec being still referred to it as before. The data for some additional localities are secured by a careful comparison with the values of the 'Establishments' in the Admiralty list. A further improvement in accuracy results from the extension of the basis for the Quebec tide tables themselves to a period of four years of continuous observation at that port. The value for South-west Point, Anticosti, is based upon a long series of simultaneous observations with Father Point.

Tidal Differences throughout the tidal estuary of the St. Lawrence; and for Chaleurs Bay.—These differences, when applied to the tide tables for Quebec and Father Point, give the time of high and low water at the places named, in Eastern Standard time, for the 75th meridian west of Greenwich.

LOCALITIES REFERRED TO QUEBEC.	DIFFERENCE TO BE APPLIED TO QUEBEC TABLES.		RISE OF TIDE.	
	For High Water.	For Low Water.	Springs.	Neaps.
	H. M.	H. M.	Feet.	Feet.
Three Rivers.....	Add 4 45	Add 6 15	1	
Champlain.....	" 4 12	" 5 33	3	2
Batiscan.....	" 3 41	" 4 51	3½	2
Cape Roche.....	" 2 44	" 3 50	6	4
Grondines.....	" 2 20	" 3 19	9	6
Point Platon.....	" 1 41	" 2 11	14½	9½
Ste. Croix.....	" 1 31	" 2 00	15	10
St. Augustin.....	" 0 46	" 0 52	16½	11
St. Nicholas.....	" 0 35	" 0 35	17	11½
QUEBEC.....	" 0 00	" 0 00	17½	12
St. Laurent.....	Sub. 0 16	Sub. 0 24	17½	14½
Berthier.....	" 0 40	" 1 00	17½	14
Grosse Isle.....	" 0 57	" 1 19	19	13
Beaujeu Channel.....	" 0 55	" 1 44	18½	13
L'Islet.....	" 1 15	" 2 05	18	13
Coudres Island.....	" 2 16	" 3 10	18	13
Murray Bay.....	" 2 52	" 3 50	17	12
Chicoutimi, at head of Saguenay.....	" 3 31	" 3 18	12	8

LOCALITIES

FATHER

Originaux Point.....
Rivière du Loup.....
Brandy Pots.....
Tadoussac.....
Green Island.....
Big Island.....
FATHER POINT.....
Little Metis.....
Matane.....
Point de Monts.....
Cape Chatte.....
Gaspé Basin.....
South-west Point, Anticosti.....
Carleton Point, Chaleurs.....
Dalhousie.....
Campbellton.....

Tide Tables for
tide tables for Father
tofore, tide tables ha
information of the pi
differences of time wi
by the observations
differences from thei
time of low water wi
the following table,
method by which the
values and make the
to the Royal Society
technical.

See Character of
actions of the Royal