

Narrows, Alaska. The turn of the current has thus been brought into relation with the tide, and the results are now published in the Tide Tables issued by the United States Coast Survey.

TIDE TABLES FOR 1899; PUBLICATION, ETC.

Quebec, Halifax, and St. John, N.B.—The tide tables for these principal harbours were again furnished to the leading British and Canadian Almanacs, as far as they were willing to publish them. These tables give the time and height of the tide, the depth of water on dock sills, &c.; and they are accompanied as before by tidal differences by which the time of the tide at a large number of other ports, becomes known. The manner of publication was the same as described in last report; and it will therefore be sufficient to give a list of the almanacs in which they appear, in whole or in part:—

Canadian Almanac.—All the above, in full.—The Copp, Clark Co., Toronto.
Greenwood's Almanac.— " " —Capt. W. N. Greenwood, Lancaster, Eng.
Brown's Almanac.—Halifax tide tables.—Messrs. J. Brown & Son, Glasgow.
Belcher's Almanac.—Halifax tide tables.—The McAlpine Co., Halifax.
Cogswell's Almanac.—Halifax; time only.—Mr. R. H. Cogswell, Halifax.
McMillan's Almanac.—St. John; time only.—Messrs. J. & A. McMillan, St. John.
Moore's Tide Tables.—Quebec; time only.—Messrs. T. J. Moore & Co., Quebec.
The Quebec Chronicle.—Quebec tide tables in full; one month at a time.
The St. John Telegraph.—St. John tide tables in full; one month at a time.

It was arranged to have these tide tables reprinted from *Greenwood's Almanac*, as a neat pamphlet; and 450 copies of this, were widely distributed. This is a step in advance of last year's publication. It served to make these tide tables more widely known, and it also enabled all applications for copies of the tables to be met.

The other tide tables issued were as follows:—

Charlottetown, Pictou, and St. Paul Island.—Accompanied by tidal differences for Northumberland Strait, and the south-western side of the Gulf of St. Lawrence. These tide tables were computed by the Tidal Survey and printed by the Department; and 350 copies were distributed as widely as possible.

Father Point.—Prepared in manuscript only; and posted at the Lighthouse at Father Point. As this is the Pilot Station for the Lower St. Lawrence, they are there accessible to the pilots.

Ste. Croix Bar.—Tide tables were again computed for this locality, as it is still the shallowest point in the tidal portion of the St. Lawrence above Quebec, pending the completion of the dredging operations. These tables were published in company with the tide tables for Quebec, by the Montreal Harbour Commissioners; in the publication they prepare annually for the information of the St. Lawrence pilots.

TIDE TABLES FOR 1900 AND 1901.

As the principal tide tables for Quebec, Halifax, St. John, N.B., and St. Paul Island, for the year 1900, are still based upon the same length of tidal record as before, there is no further improvement in their accuracy. It is also improbable that there will be any in the tide tables for 1901, which are already in hand for calculation.

It may be well here to review the amount of tidal record secured up to date; and also to consider the question of the degree of accuracy of the tide tables as they stand at present.

TIDAL RECORD OBTAINED TO DATE.

The tidal record obtained at the principal stations, up to the end of 1898, is given in a summary form in Table D. appended. The reasons of the more important interruptions are also indicated. The table further shows how far the record has yet been

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