

## ST. LAWRENCE SHIP CHANNEL WATER LEVEL FORECASTS AND INFORMATION BULLETIN

Forecasts as of :

13<sup>th</sup> January, 2022

| Sector                  | Expected lowest water level above chart datum |               |               |               |               |               |
|-------------------------|---|---------------|---------------|---------------|---------------|---------------|
|                         | 3 days  | 4 to 6 days   | 7 to 10 days  | 11 to 14 days | Week 3        | Week 4        |
|                         | (14/01-16/01)                                 | (17/01-19/01) | (20/01-23/01) | (24/01-27/01) | (28/01-03/02) | (04/02-10/02) |
| <b>Montreal</b>         | 0.80m   | 0.70m         | 0.6m          | 0.7m          | 0.7m          | 0.6m          |
| <b>Sorel</b>            | 0.85m   | 0.85m         | 0.8m          | 0.9m          | 0.9m          | 0.8m          |
| <b>Lac Saint-Pierre</b> | 0.75m   | 0.75m         | 0.8m          | 0.8m          | 0.8m          | 0.7m          |
| <b>Trois-Rivieres</b>   | 0.65m   | 0.70m         | 0.7m          | 0.7m          | 0.7m          | 0.5m          |

Notes :

1. These forecasts give the expected minimum water levels above chart datum at the indicated locations and at the specified times to assist commercial shipping in short term planning of operations (1 to 4 weeks).
2. This bulletin is produced by the Hydraulic Engineering sector, CCG, Headquarters on Monday and Thursday of each week.
3. The Canadian Coast Guard provides no guaranties on water levels and assumes no responsibilities relative to damages or losses resulting from the use of this information.
4. It should be clearly understood that this information is a forecast of water levels which may be altered by short term hydrometeorological factors. The vessel master or officer-in-charge has the ultimate responsibility for the vessel safety at all times.
5. The maritime industry has the responsibility of adding a sufficient safety margin to these forecasts. Hydrodynamic phenomena can influence water levels observed at gauging stations used by MCTS, especially during low water periods.
6. Ice jams management could induce important variations in the water levels. The water level forecasts within this bulletin do not take into account the potential variations resulting from ice jam management.

Comments :

1. A decrease of water levels is to be expected on the short term due to management of upstream control structures which will prioritize the formation of stable ice covers.
2. Uncertainties on expected lowest water levels can be provided on demand.

### Pertinent current information

1. **Lake Ontario :**

|                  | Weekly average water level |                               | Outflow at the Moses-Saunders dam |                               |
|------------------|----------------------------|-------------------------------|-----------------------------------|-------------------------------|
|                  | Level (m)                  | Difference from previous week | Outflow (m <sup>3</sup> /s)       | Difference from previous week |
| <b>Last Week</b> | 74.86                      | -0.02                         | 8470                              | -50 (-1%)                     |
| <b>Current</b>   | 74.84                      | -0.02                         | 8030                              | -440 (-5%)                    |

2. **Ottawa river outflow :**

|                  | Total outflow at the Carillon dam |                               | Outflow into Lake St. Louis |                               |
|------------------|-----------------------------------|-------------------------------|-----------------------------|-------------------------------|
|                  | Outflow (m <sup>3</sup> /s)       | Difference from previous week | Outflow (m <sup>3</sup> /s) | Difference from previous week |
| <b>Last Week</b> | 2400                              | -200 (-8%)                    | 830                         | -100 (-11%)                   |
| <b>Current</b>   | 2380                              | -20 (-1%)                     | 900                         | 70 (8%)                       |

Additional information may be obtained from :

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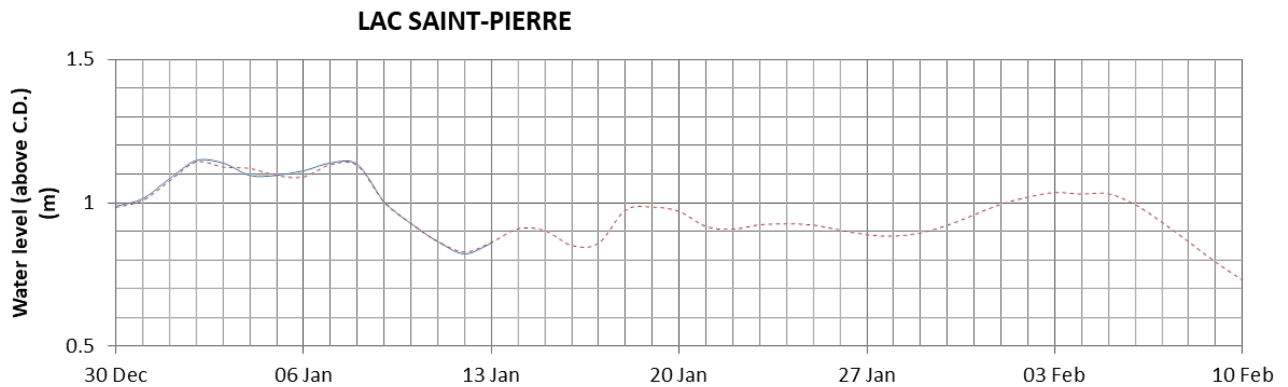
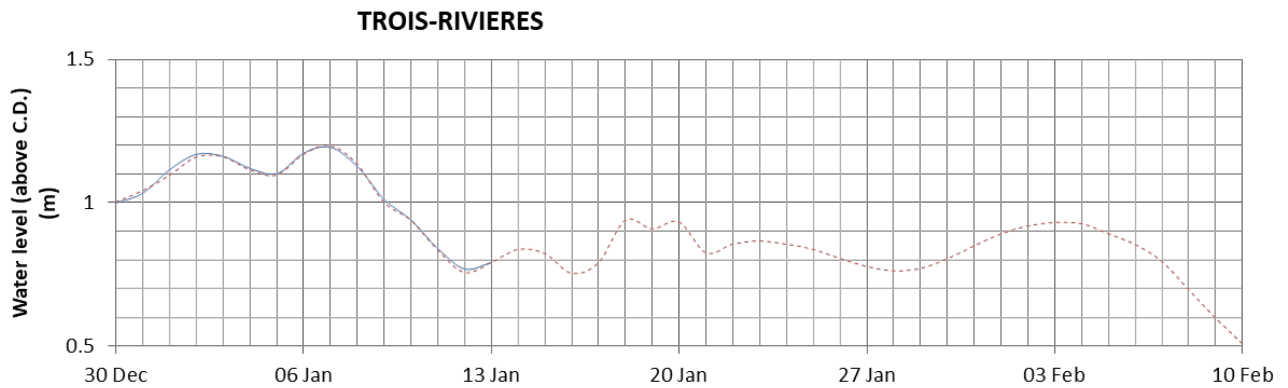
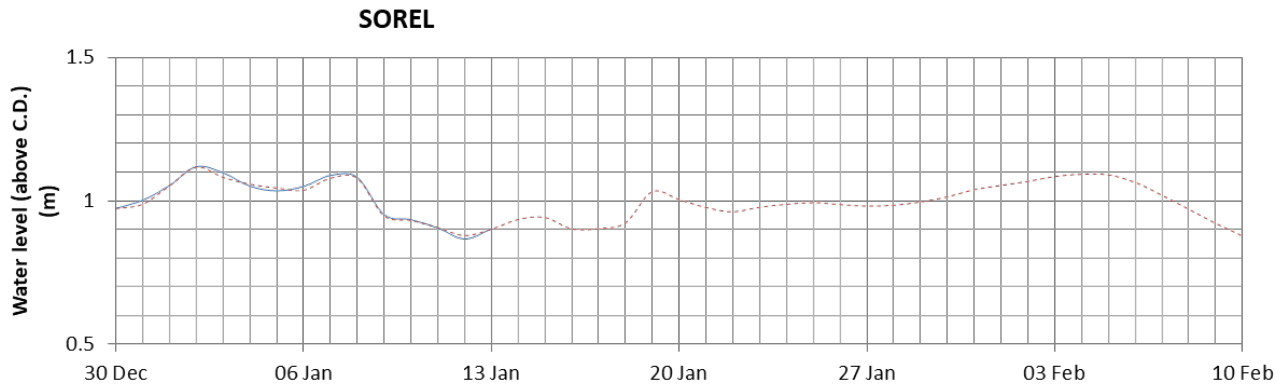
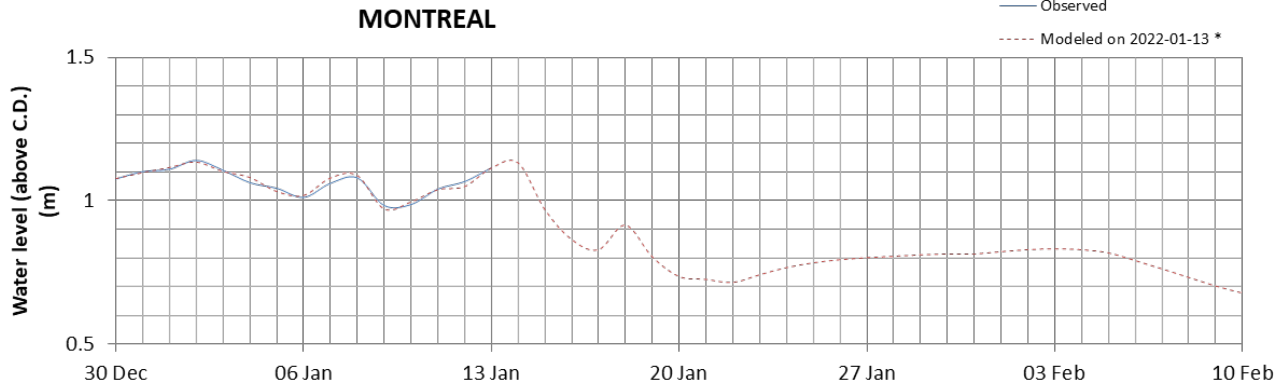
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(Ce bulletin est également disponible en français)

This bulletin is also available on internet :

<http://www.marinfo.gc.ca/en/Niveaux/Index.php>

### OBSERVED AND MODELED DAILY MINIMUM WATER LEVELS



\* Water level modeled with available measured data and expected data