

HYDROLOGY,
HYDRAULICS AND
MAPPING TECHNICAL
WORKING GROUP





MAIN TASKS

Numerical modelling of the Lake Champlain – Richelieu River system in the context of past and future flooding events:

- Hydrometeorological data collection
- Hydrological modeling
- Hydrodynamic model development
- Development of extreme hydroclimate scenarios

Hydrometeorological analysis of past floods as part of the evaluation of the causes and impacts of past floods, especially the event of 2011

Hydraulic modeling as part of the assessment of potential structural and non-structural flood management and mitigation measures

Development of a binational real-time flood forecasting and flood plain mapping system for operational implementation

RESPONSIBILITIES

Apply hydrological models of the Lake Champlain – Richelieu River basin.

Identify data needs to determine flood risk using historical, near-future and climatic weather scenarios.

Create hydraulic models and develop and demonstrate a real-time operational flood forecasting and flood mapping system.

Once calibrated, the models will be used to determine the effectiveness and acceptability of the various flood management and mitigation measures developed by the Flood Management and Mitigation Measures Technical Working Group.

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