

Project/Product

Transition Partner

Technical Readiness Level (TRL)

Temperature and Precipitation Forecast Web Portal USACE	7	Hydrologic Models
Area Ratio Method USACE, EC	7	
Large Basin Runoff Model USACE, EC, Academia	7	
Large Lakes Thermodynamics Model USACE, EC, Academia	7	
Great Lakes Water Budget Closure Model USACE, EC, CCGLBHHD	5	
North American Multi-Model Ensemble Tool (NMME) USACE	5	
River Plume Loading Forecast Model Region-Specific Stakeholders	3	
Long-term Water Level Forecast System for the St. Lawrence River New York Power Authority (NYPA/OPG)	3	
Upper St. Lawrence River Forecast System (USL) GLOS	7	Hydrodynamic Models
Spill Transport Table for the St. Clair River GLOS, SEMCOG, Water Intake Users	7	
Short-term Flow Forecasting System for the Niagara River NYPA/OPG via NOAA/NOS/CO-OPS & NOAA/NWS/NERFC	3	
Climate Change Simulations	6	Climate Models
WRF-Lake Climate Change Simulation Model	5	
WRF-FVCOM Coupled Regional Model	2	
Apostle Islands Ice Cover Forecasting Model National Park Service	4	Ice Models
Lake Erie HABS Statistical Forecasting System Lake Erie Stakeholders	4	Ecological Models

Technical Readiness Level (TRL) Definitions

1: Basic principles have been observed and reported.

2: Technology concept and/ or application has been formulated.

3: Analytical and experimental critical function and/or characteristic proof-of-concept.

4: Component/subsystem validation in laboratory environment.

5: System/subsystem validation in relevant environment.

6: System/ subsystem model or prototyping demonstration in a relevant end-to-end environment.

7: System prototyping demonstration in an operational environment.

8: Actual system completed and “mission qualified” through test and demo in operational environment.

9: Actual system “mission proven” through successful operations.