



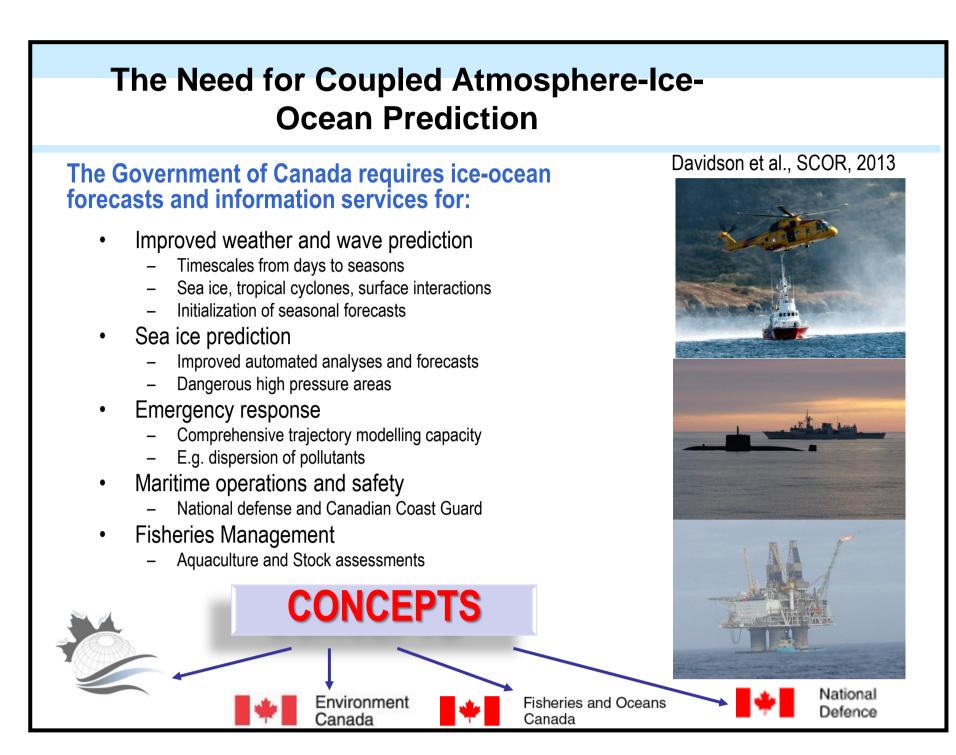


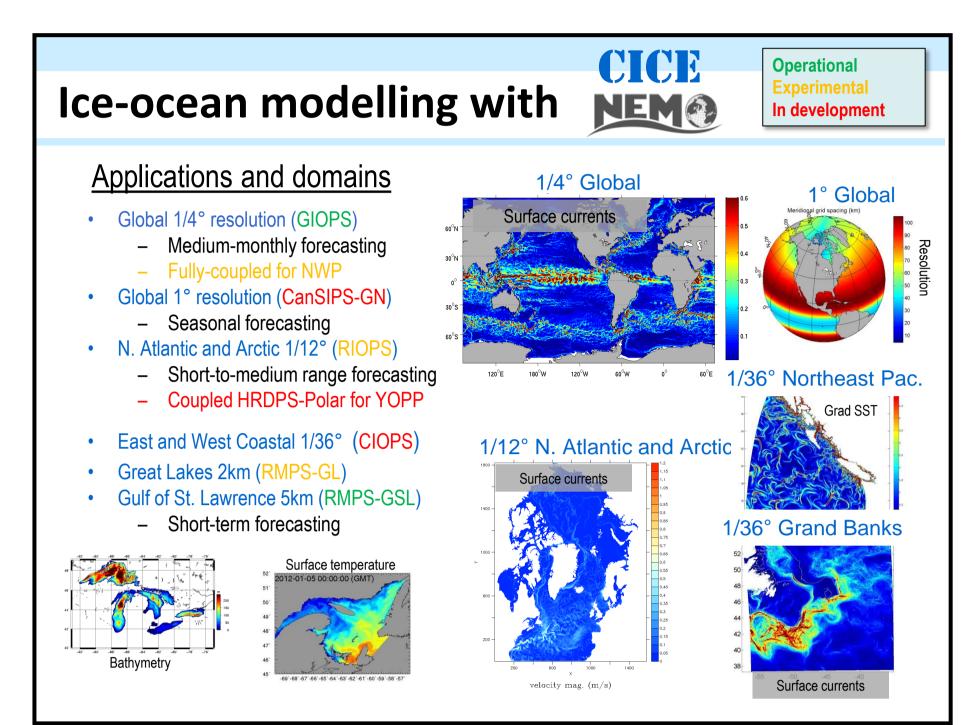


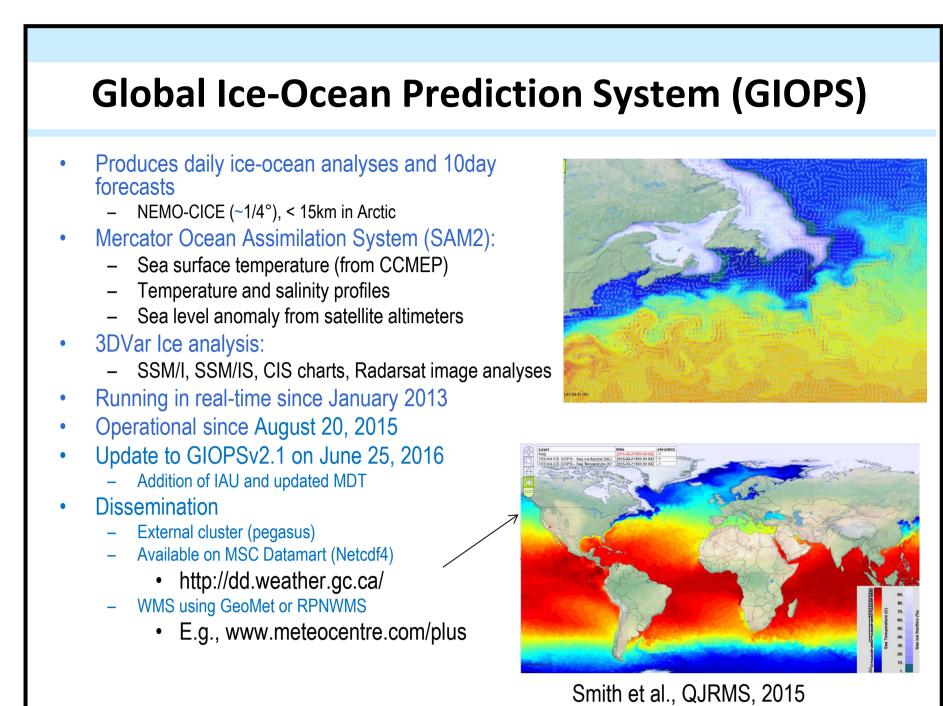
## Overview of CONCEPTS Ice-Ocean Prediction Systems from Research to Operations 2015-2016

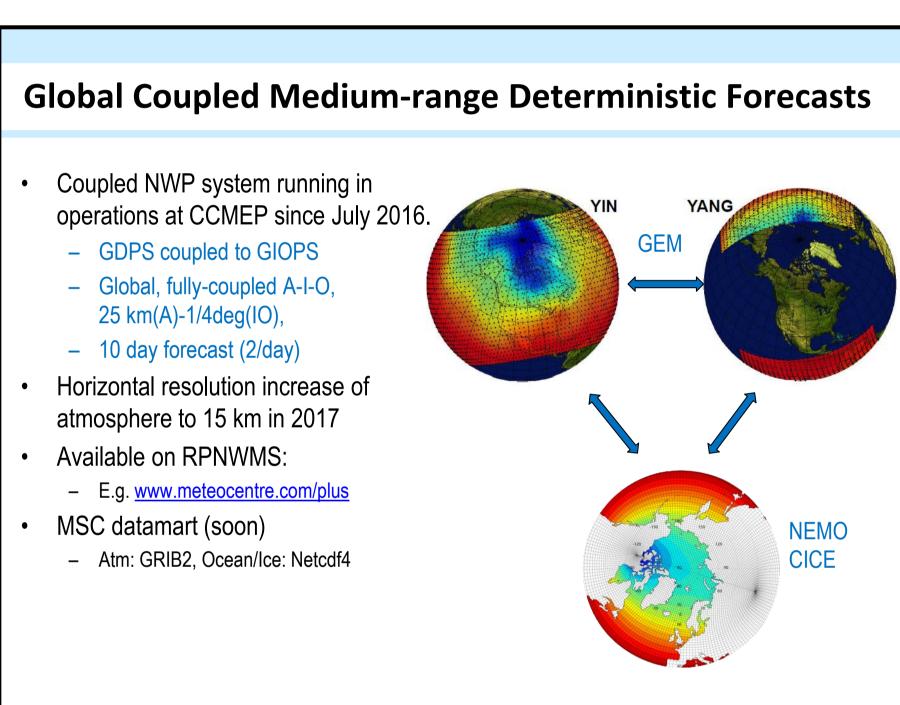
Establishing a Core Environmental Prediction Capability in Canada

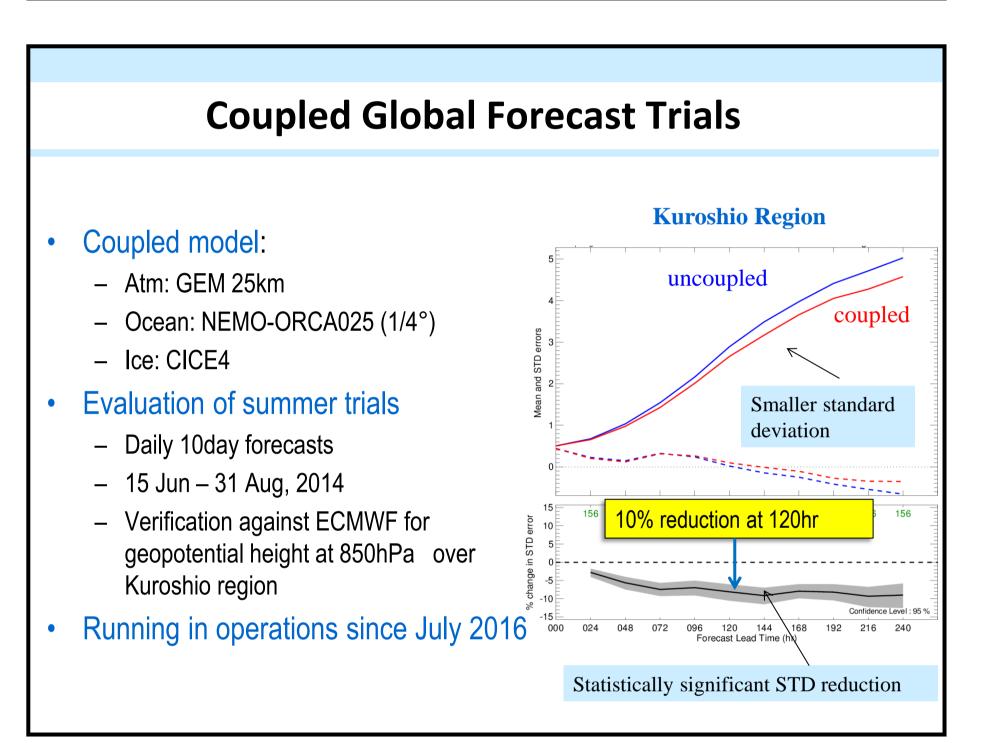
Hal Ritchie (1), Gregory Smith (1), Fraser Davidson(2) and the CONCEPTS Team (1) Meteorological Research Division, Environment and Climate Change Canada, Canada (2) Northwest Atlantic Fisheries Centre, Department of Fisheries and Oceans, Canada

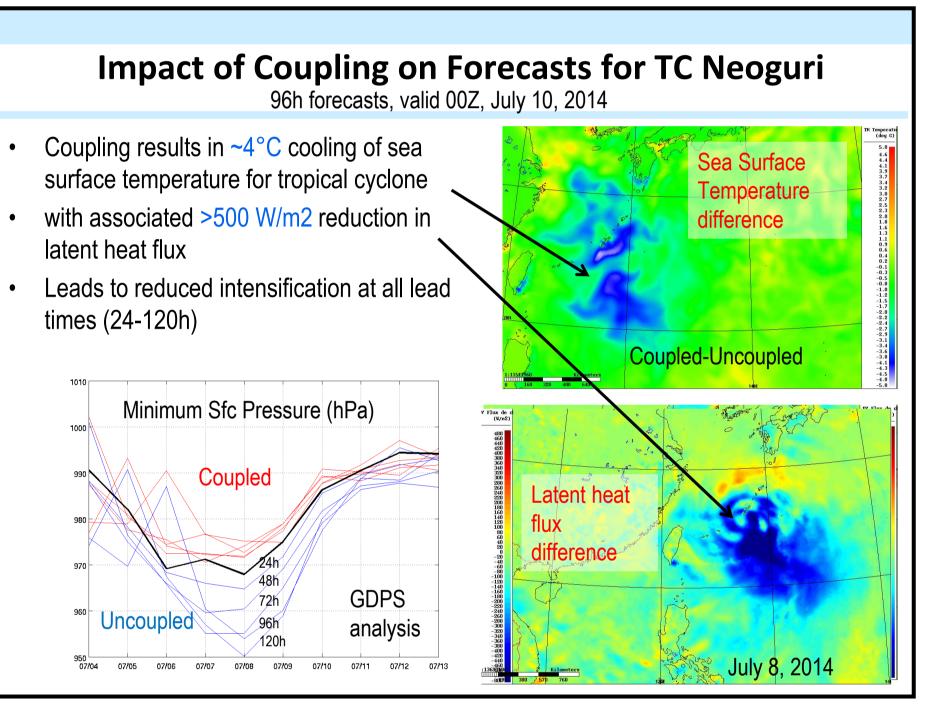


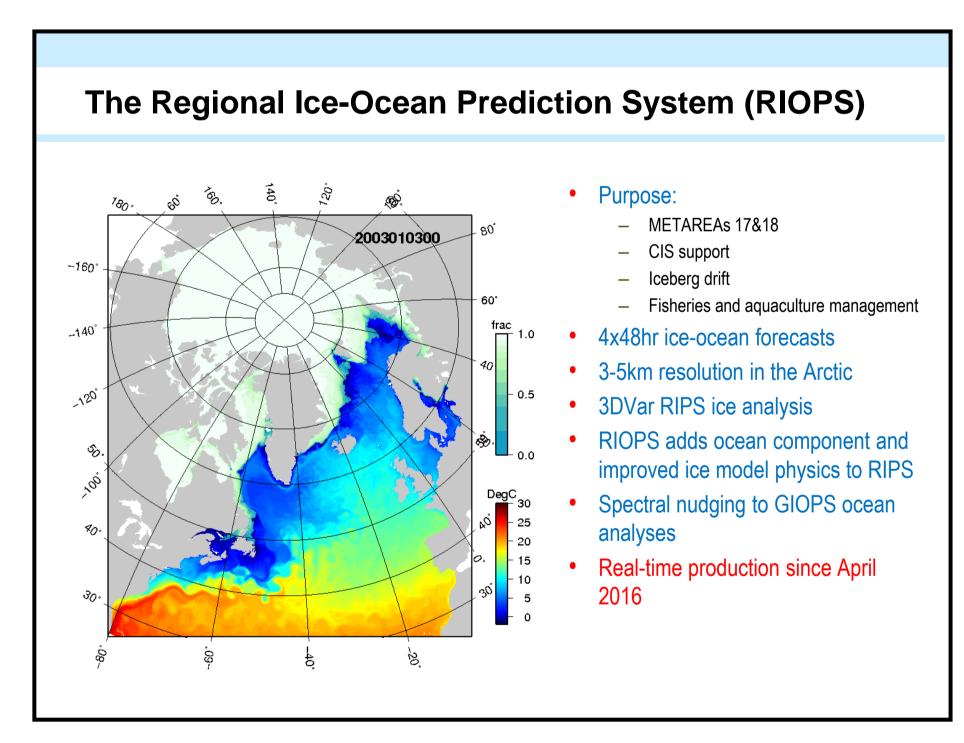


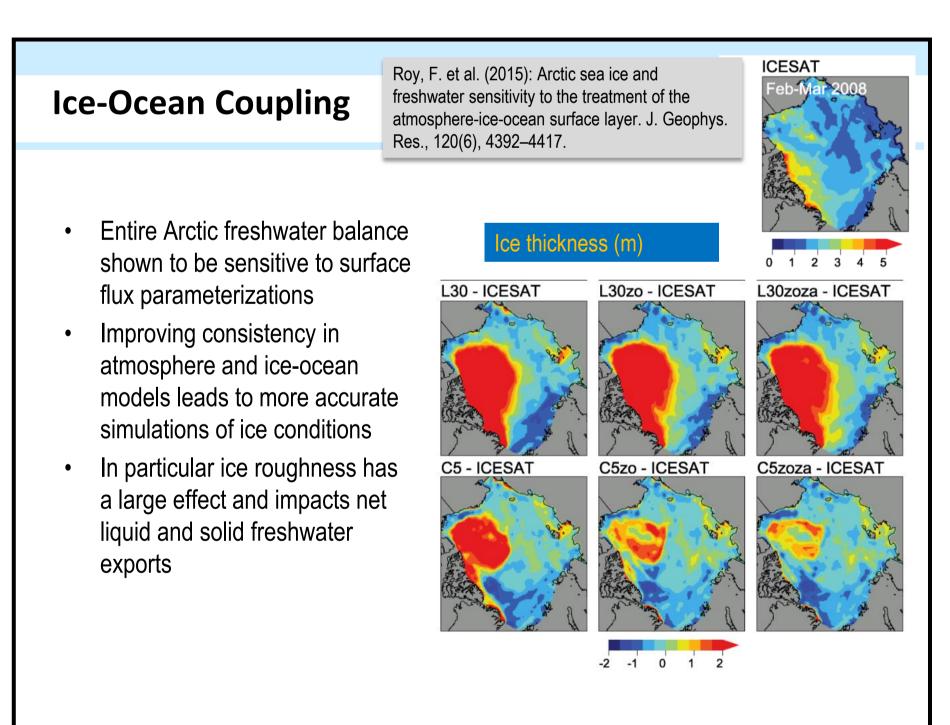


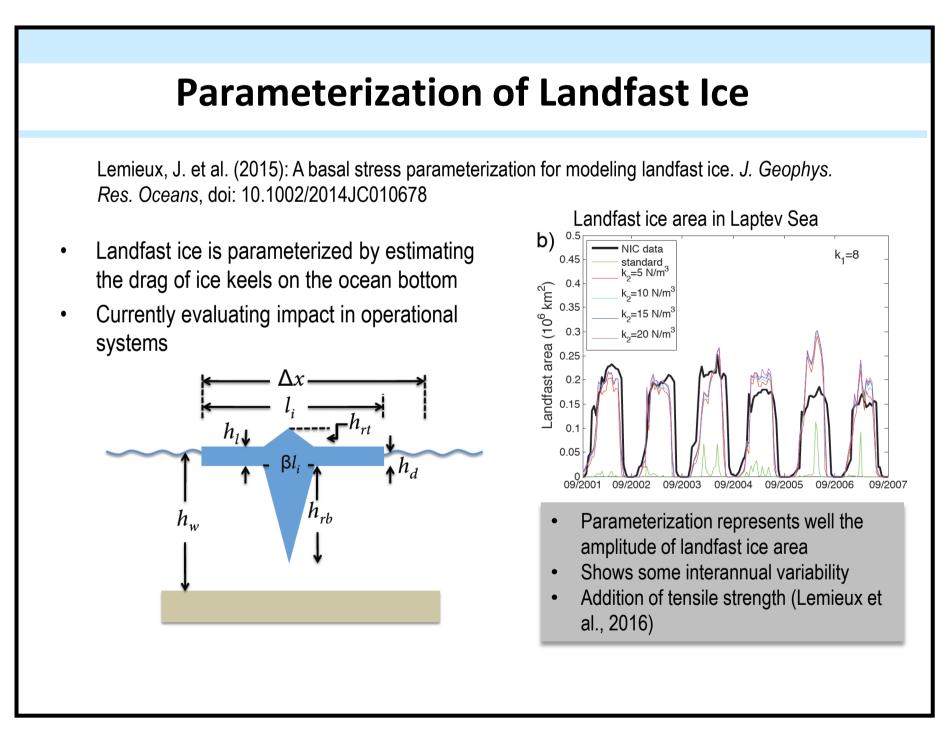


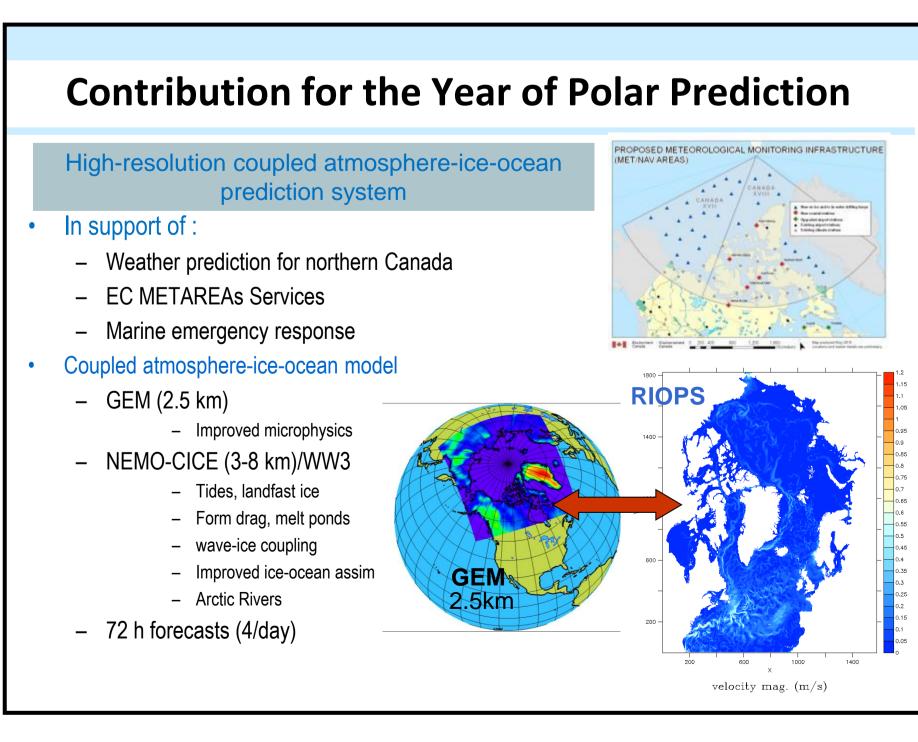


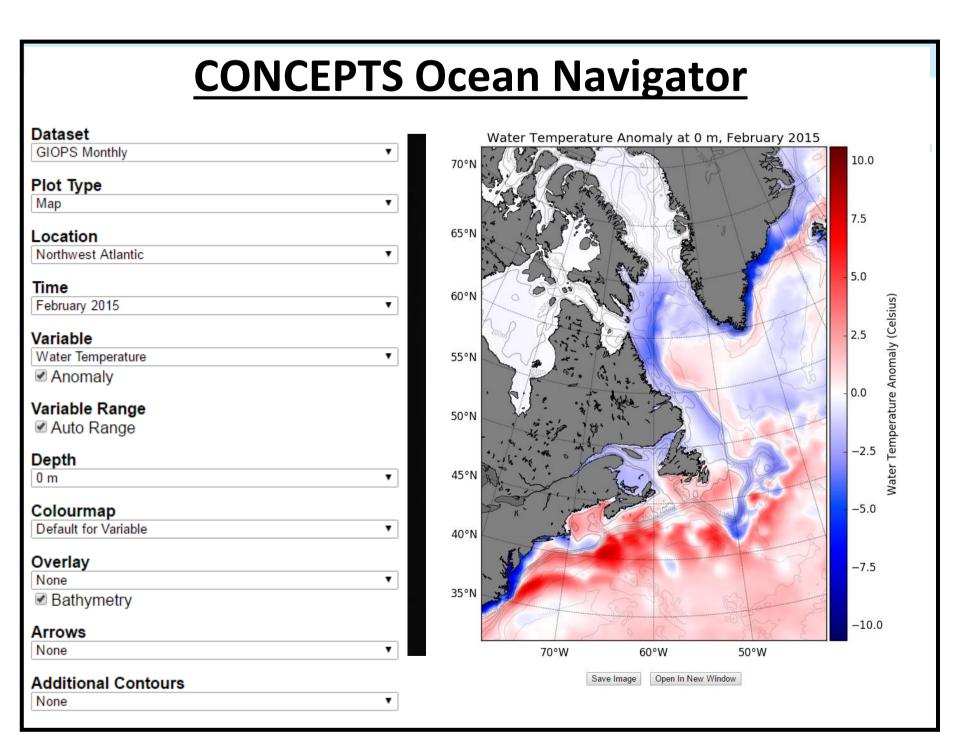












## **CONCEPTS Systems Status and plans**

- Five systems running in operations
  - Global Ice Ocean Prediction System (1/4 deg, daily 10d fcst)
  - Global Coupled Medium-range NWP System (25km, 10d fcst, 2/day)
  - Regional Ice Ocean Prediction System (2-6km, 48h fcst, every 6hrs) Great Lakes Coupled Forecasting System (2km; 48h fcst, daily)
  - Coupled A-I-O Gulf of St. Lawrence (5km; 48h fcst, every 6hrs)
- Several systems in various stages of development
- Full Canadian regional ice-ocean system (2-8km)
- Coastal (2km) system for east and west coast
- Coupling with regional and ensemble NWP systems
- Local-scale modelling (1m-2km)
  - West coast Fjords (FVCOM), St. Lawrence River (H2D2)