

GREAT LAKES ICE BREAKING



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UNITED STATES - GREAT LAKES
MID-COR
NORTH END OF LAKE MICHIGAN
INCLUDING
GREEN BAY

GREAT LAKES WINTER NAVIGATION GREEN BAY

- West Shore Pipeline
- Alternatives to Product Delivery
- Request for Service
- Winter Navigation Plan
- Forecast





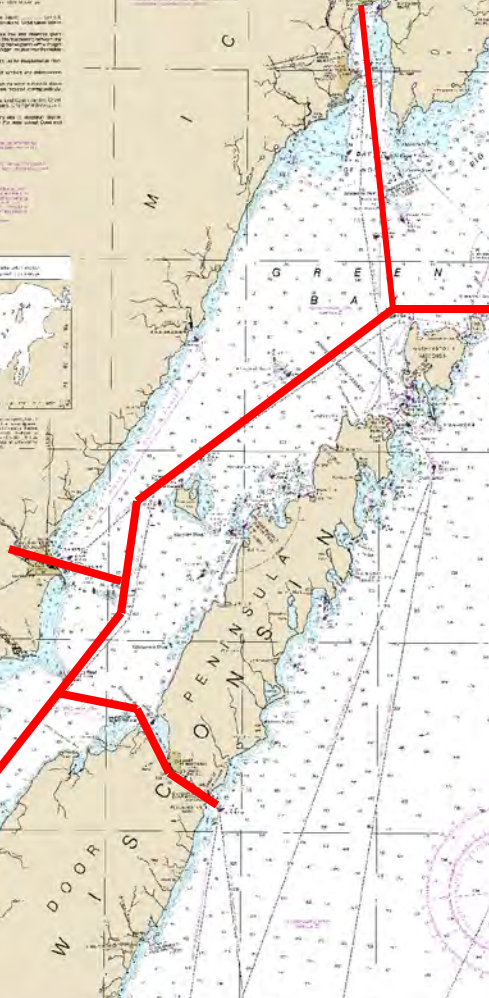
US COAST GUARD DOMICE POLICY AND PROCEDURES

- Authority
- Priority
- Organization
- Resources
- Commercial Assistance
- Outreach



**NORTH END OF LAKE MICHIGAN
INCLUDING
GREEN BAY**

POTENTIAL SHIPPING ROUTES



UNITED STATES - GREAT LAKES
MICHIGAN

GREEN BAY
SOUNDINGS IN FEET
Scale of Soundings: 1 inch = 100 feet
Scale of Distances: 1 inch = 1 mile
Scale of Bearings: 1 inch = 1 degree
Scale of Currents: 1 inch = 1 mile per hour
Scale of Tides: 1 inch = 1 foot
Scale of Winds: 1 inch = 1 mile per hour
Scale of Clouds: 1 inch = 1 mile per hour
Scale of Visibility: 1 inch = 1 mile per hour
Scale of Temperature: 1 inch = 1 degree Fahrenheit
Scale of Humidity: 1 inch = 1 degree Fahrenheit
Scale of Pressure: 1 inch = 1 degree Fahrenheit
Scale of Direction: 1 inch = 1 degree Fahrenheit
Scale of Time: 1 inch = 1 degree Fahrenheit
Scale of Longitude: 1 inch = 1 degree Fahrenheit
Scale of Latitude: 1 inch = 1 degree Fahrenheit

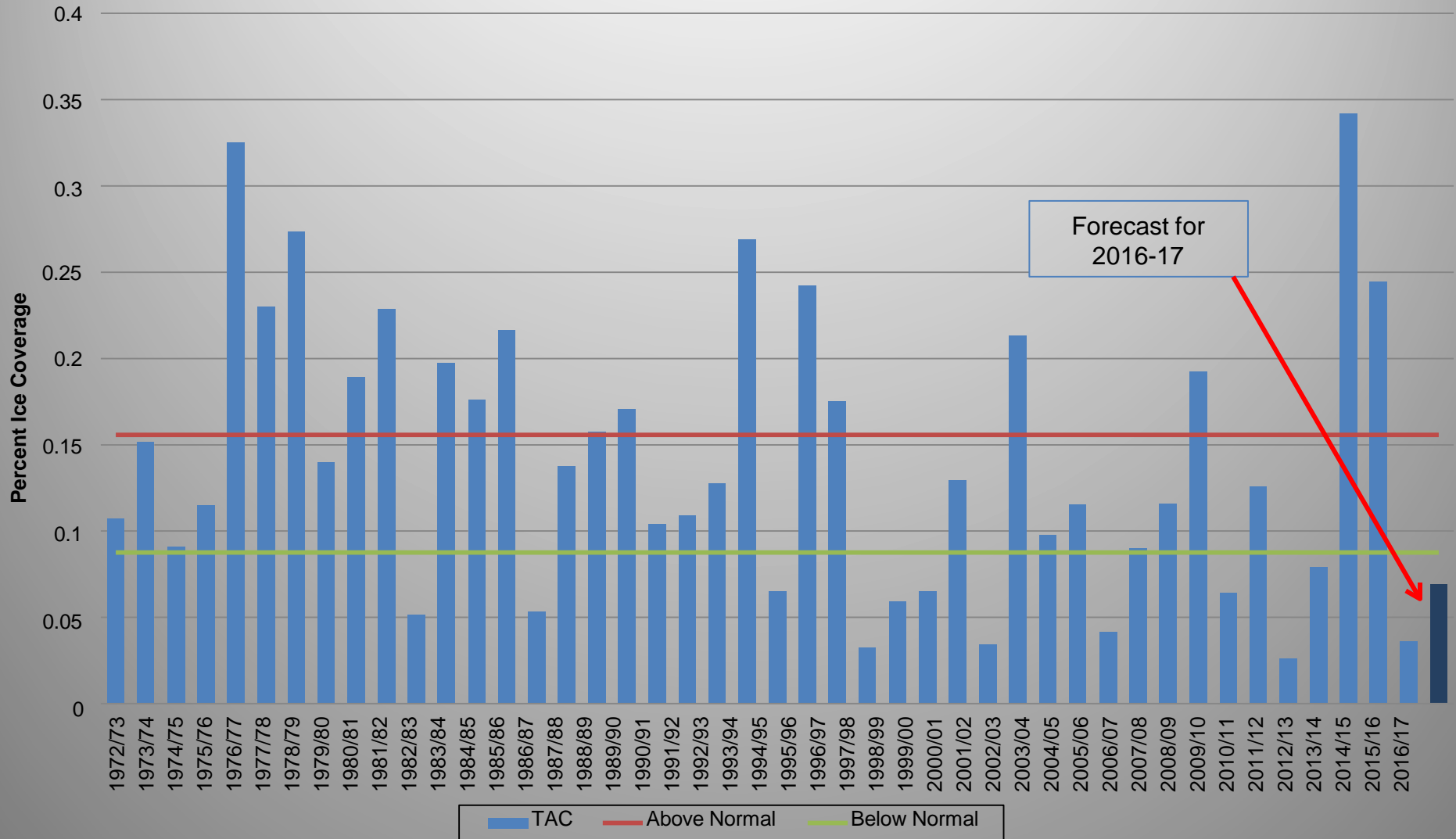


W DOORS
OPENWISLAW
GREEN BAY
MICHIGAN
LAKE MICHIGAN
BEAVER ISLAND
FERNSHAW ISLAND
GRAND ISLAND
SAULET
WISCONSIN
ILLINOIS
INDIANA
MICHIGAN
OHIO
PENNSYLVANIA
NEW YORK
VERMONT
NEW HAMPSHIRE
MAINE
CONNECTICUT
MASSACHUSETTS
RHODE ISLAND
CENTRAL ISLAND
LONG ISLAND
CONNECTICUT
MASSACHUSETTS
RHODE ISLAND
CENTRAL ISLAND
LONG ISLAND



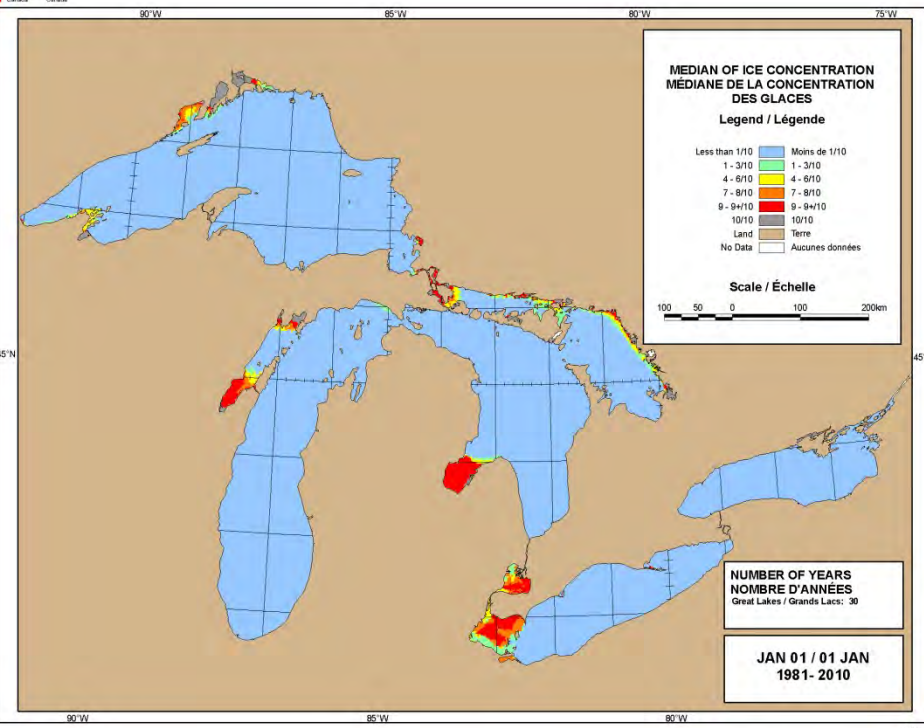
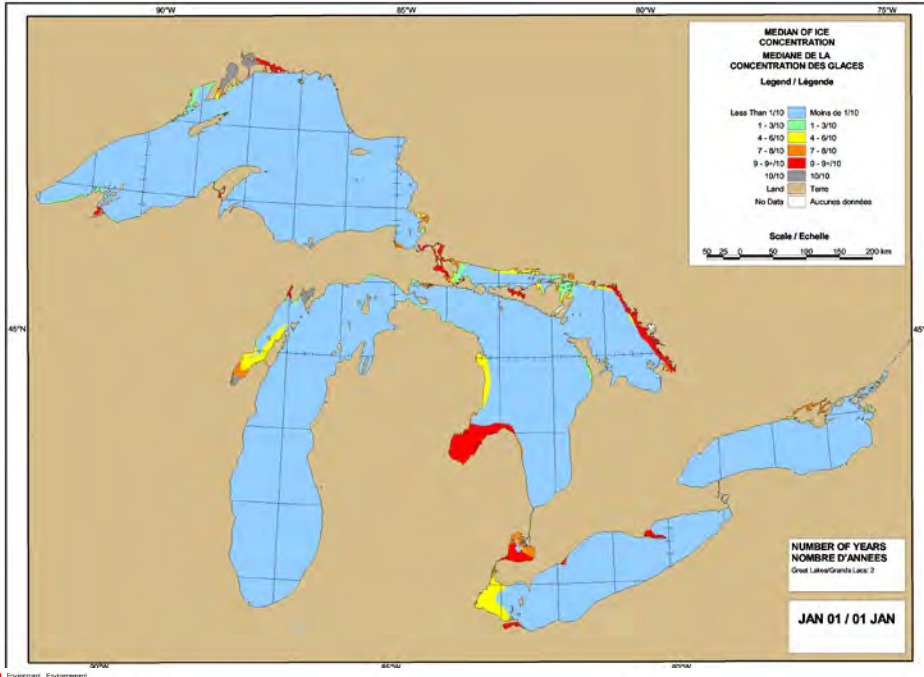
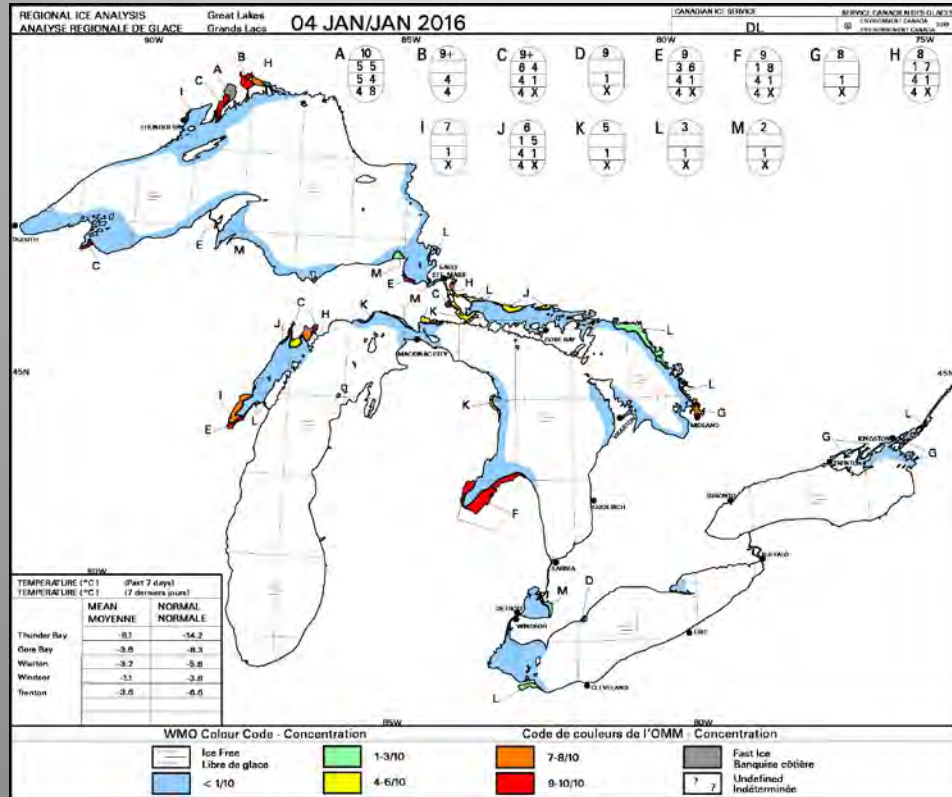
Forecast for 2016-17

Great Lakes 1972-73 to 2016-17





Early January



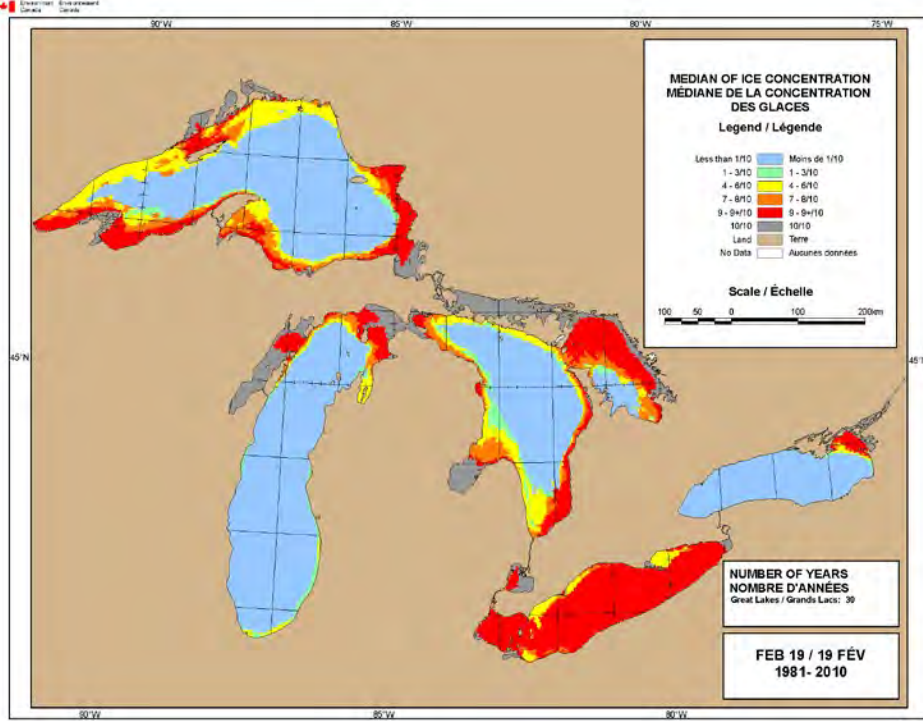
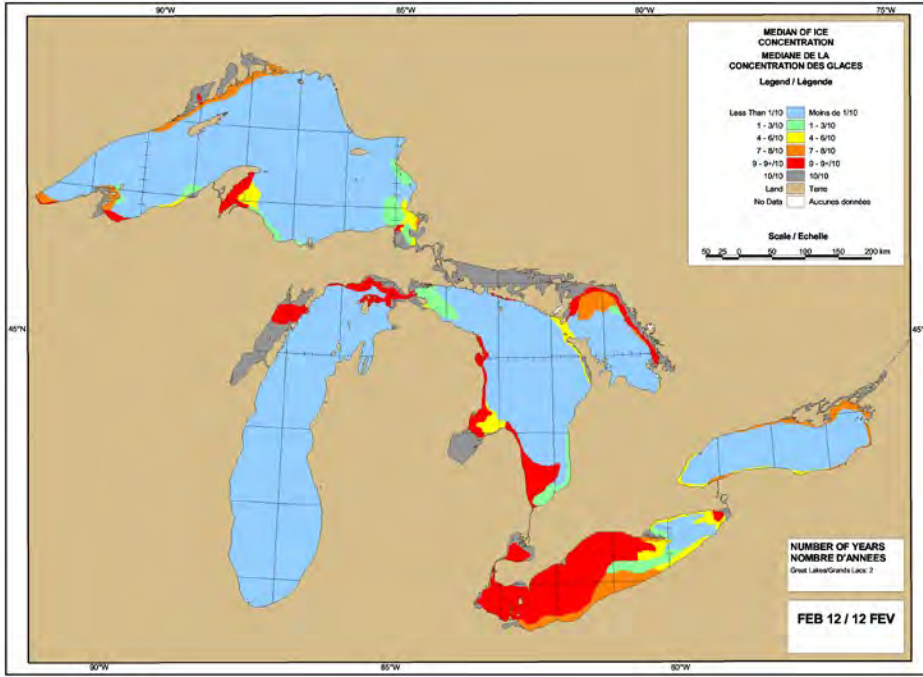
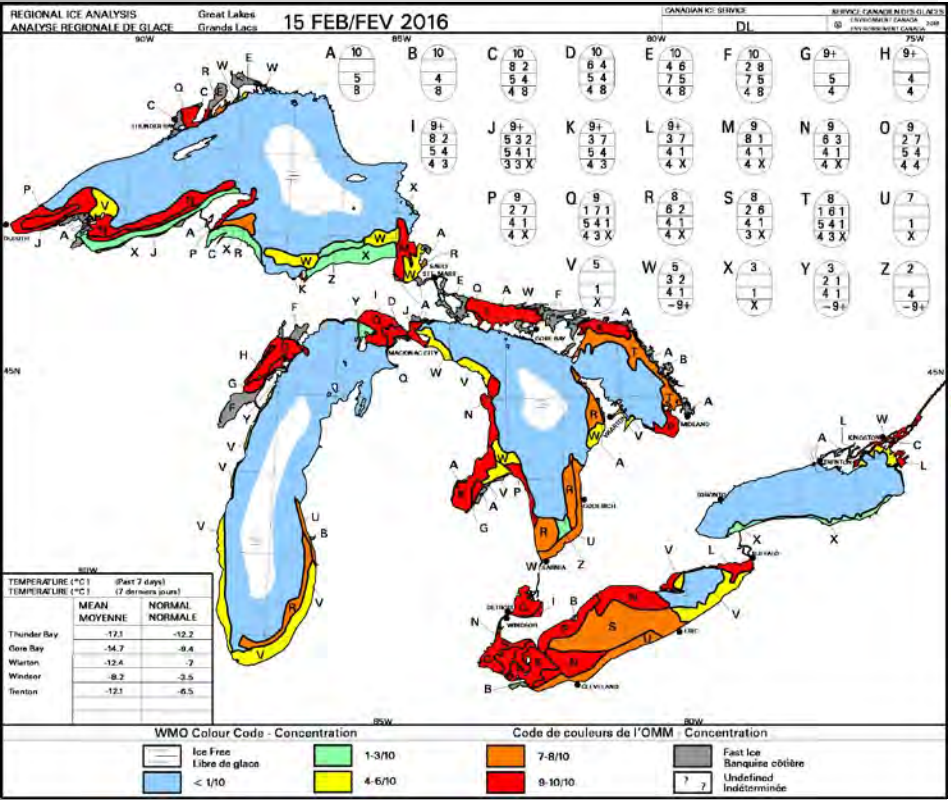
Above: 4 January 2016 conditions

Top Right: early January 2017 Forecast

Bottom Right: Median ice concentration for 1 January 1981-2010



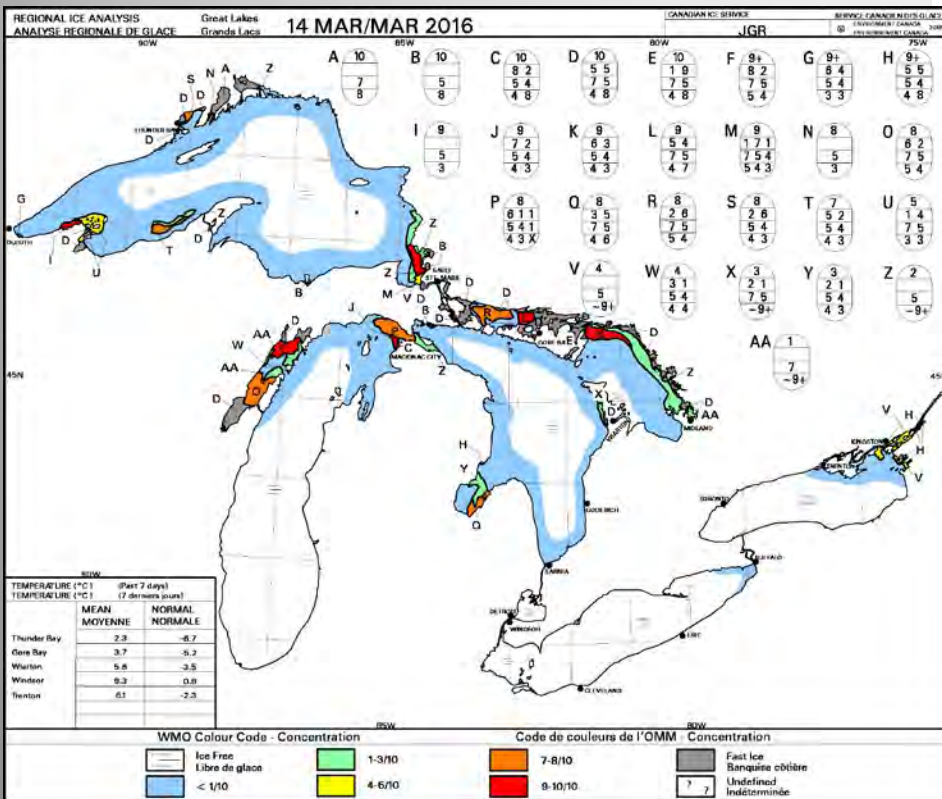
Mid-February



Above: 15 February 2016 conditions.
 Top Right: mid-February 2017 Forecast
 Bottom Right: Median ice concentration for 19 February 1981-2010



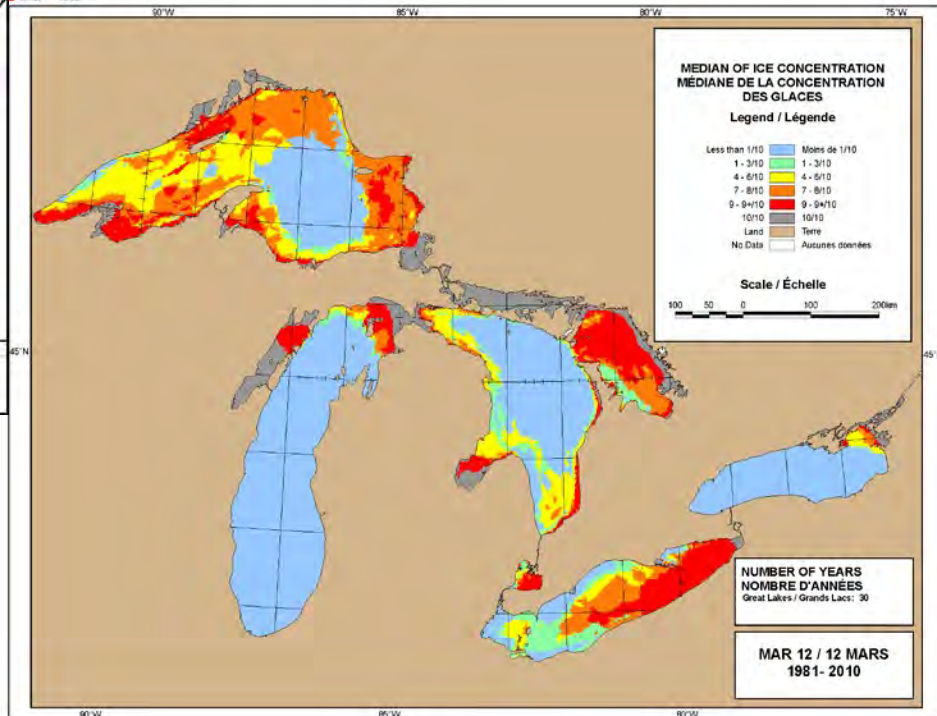
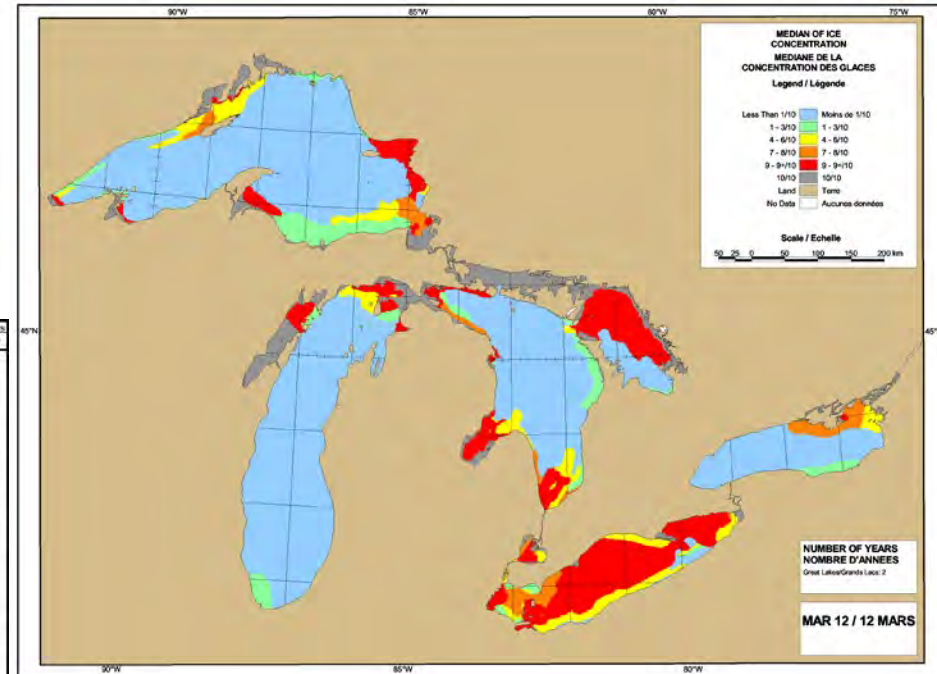
Mid-March



Above: 14 March 2016 conditions.

Top Right: mid-March 2017 Forecast

Bottom Right: Median ice concentration for 12 March 1981-2010





Homeland
Security