2015 Season Updates

Experimental Great Lakes Forecast Format

LHZ462>464-082115- LAKE HURON FROM PORT AUSTIN TO HARBOR BEACH BEYOND 5NM OFF SHORE- LAKE HURON FROM HARBOR BEACH TO PORT SANILAC BEYOND 5NM OFF SHORE- LAKE HURON FROM PORT SANILAC TO PORT HURON BEYOND 5NM OFF SHORE- 936 AM EST MON FEB 8 2016

.REST OF TODAY...LIGHT AND VARIABLE WINDS. RAIN AND SNOW SHOWERS. WAVES 2 FEET OR LESS.
.TONIGHT...NORTH WINDS 5 TO 10 KNOTS. SNOW SHOWERS. WAVES 2 FEET OR LESS.
.TUESDAY...NORTH WINDS 10 TO 15 KNOTS...INCREASING TO 15 TO 20 KNOTS BY MID AFTERNOON. SNOW SHOWERS LIKELY. WAVES 1 TO 3 FEET...BUILDING TO 4 TO 6 FEET BY MID AFTERNOON. WAVES OCCASIONALLY AROUND 8 FEET. .TUESDAY NIGHT...NORTHWEST WINDS 20 TO 25 KNOTS. GUSTS TO 30 KNOTS. SNOW SHOWERS LIKELY. WAVES 6 TO 9 FEET. WAVES OCCASIONALLY AROUND 12 FEET.
.WEDNESDAY...NORTHWEST WINDS 20 TO 25 KNOTS. GUSTS TO 35 KNOT GALES. SNOW SHOWERS LIKELY THROUGH LATE AFTERNOON...THEN A CHANCE OF SNOW SHOWERS. WAVES 6 TO 9 FEET. WAVES OCCASIONALLY AROUND 12 FEET. .THURSDAY...NORTHWEST WINDS 15 TO 20 KNOTS...BECOMING WEST 10 TO 15 KNOTS. A CHANCE OF SNOW SHOWERS. WAVES 3 TO 5 FEET. .FRIDAY...NORTHWEST WINDS 15 TO 20 KNOTS. GUSTS TO 30 KNOTS. A CHANCE OF SNOW SHOWERS. WAVES 3 TO 5 FEET.
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EXPERIMENTAL TABULAR OPEN LAKE FORECAST FOR LAKE HURON

.SYNOPSIS...LOW PRESSURE...AROUND 29.50 INCHES...WILL MOVE FROM UPPER MICHIGAN OVER LAKE HURON AND LOWER MICHIGAN TODAY AND STALL THROUGH TUESDAY. THE LOW BEING OVERHEAD WILL LEAD TO LIGHT AND VARIABLE WIND WITH INCREASING SNOW SHOWERS TONIGHT THROUGH TUESDAY. THE WIND WILL INCREASE FROM THE NORTH TUESDAY NIGHT INTO WEDNESDAY AS THE SYSTEM MOVES TOWARD LAKE ONTARIO. EXPECT BUILDING WAVES AND NUMEROUS SNOW SQUALLS AS ARCTIC AIR MOVES IN FOR LATER IN THE WEEK.

LHZ462>464-082100-
LAKE HURON FROM PORT AUSTIN TO HARBOR BEACH BEYOND 5NM OFF SHORE-
LAKE HURON FROM HARBOR BEACH TO PORT SANILAC BEYOND 5NM OFF SHORE-
LAKE HURON FROM PORT SANILAC TO PORT HURON BEYOND 5NM OFF SHORE-
1005 AM EST MON FEB 8 2016

.REST OF TODAY...
WEATHER……..RAIN AND SNOW SHOWERS.
SURFACE WINDS.....LIGHT AND VARIABLE WINDS.
100 FOOT WINDS.....LIGHT AND VARIABLE WINDS.
SIG WAVES.....2 FEET OR LESS / LESS THAN 1 METER /.

.TONIGHT...
WEATHER.....RAIN AND SNOW SHOWERS...THEN SNOW SHOWERS OVERNIGHT.
SURFACE WINDS.....NORTH 5 TO 10 KNOTS...BECOMING NORTHEAST IN THE LATE EVENING
AND OVERNIGHT.
100 FOOT WINDS.....NORTH 10 TO 15 KNOTS...BECOMING NORTHEAST OVERNIGHT.
SIG WAVES.....1 TO 3 FEET / 1 METER OR LESS /.

.TUESDAY...
WEATHER.....SNOW SHOWERS LIKELY.
SURFACE WINDS.....NORTH 15 TO 20 KNOTS.
100 FOOT WINDS.....NORTH 20 TO 25 KNOTS.
SIG WAVES.....1 TO 3 FEET / 1 METER OR LESS /...BUILDING TO 3 TO 5 FEET / 1-2
METERS / EARLY IN THE AFTERNOON.
OCNL WAVES.....AROUND 6 FEET / 2 METERS / UNTIL LATE AFTERNOON.

.TUESDAY NIGHT...
WEATHER.....SNOW SHOWERS LIKELY.
SURFACE WINDS.....NORTHWEST TO 30 KNOTS.
100 FOOT WINDS.....NORTHWEST GALES TO 35 KNOTS.
SIG WAVES.....5 TO 7 FEET / AROUND 2 METERS /.
OCNL WAVES.....AROUND 9 FEET / 3 METERS /.

WAVE HEIGHTS ARE FOR ICE FREE AREAS

.FORECAST DAYS 3 THROUGH 5...

.WEDNESDAY...BREEZY. CHANCE OF SNOW SHOWERS. NORTHWEST WINDS
20 TO 25 KNOTS. WAVES 5 TO 7 FEET / AROUND 2 METERS /.
.THURSDAY...CHANCE OF SNOW SHOWERS. NORTHWEST WINDS 10 TO
15 KNOTS. WAVES 5 TO 7 FEET / AROUND 2 METERS /.
.FRIDAY...CHANCE OF SNOW SHOWERS. NORTHWEST WINDS 15 TO 20 KNOTS.
WAVES 4 TO 6 FEET / 1-2 METERS /.

$$
MAFOR 08/16
HURON SOUTH 11407 11507 11807 11107 12207 12107. WAVES 2 FEET OR LESS. 220101.
$$

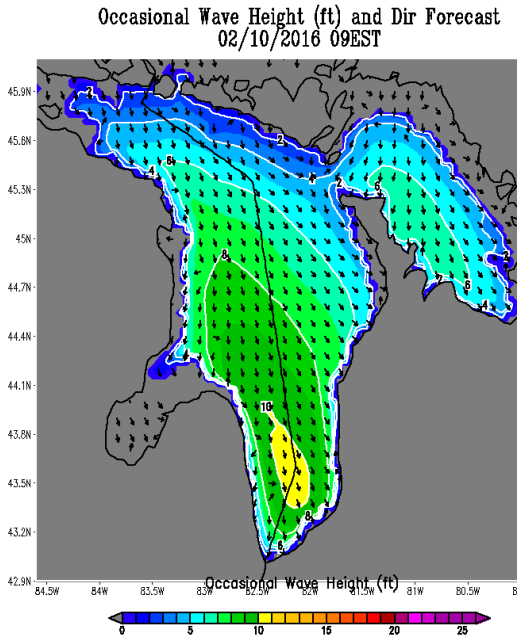
SIGNIFICANT WAVES – AVG OF HIGHEST 1/3

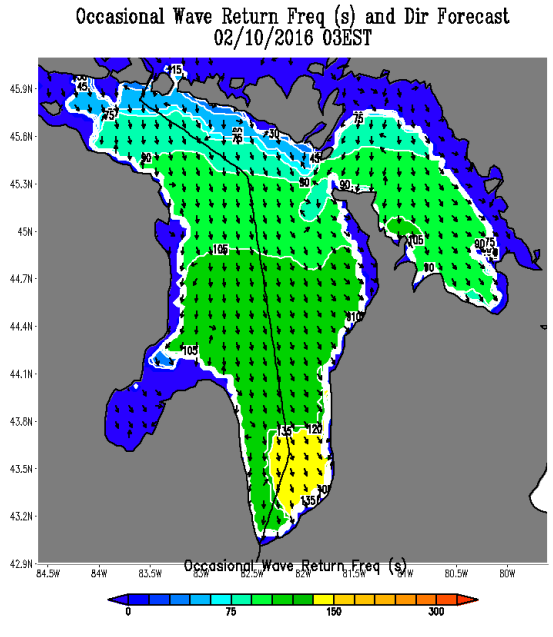
OCCASIONAL WAVES – AVG OF HIGHEST 1/10

100 FOOT/30 METER WIND SPEEDS ARE ROUGHLY EQUIVALENT TO SURFACE WIND GUSTS

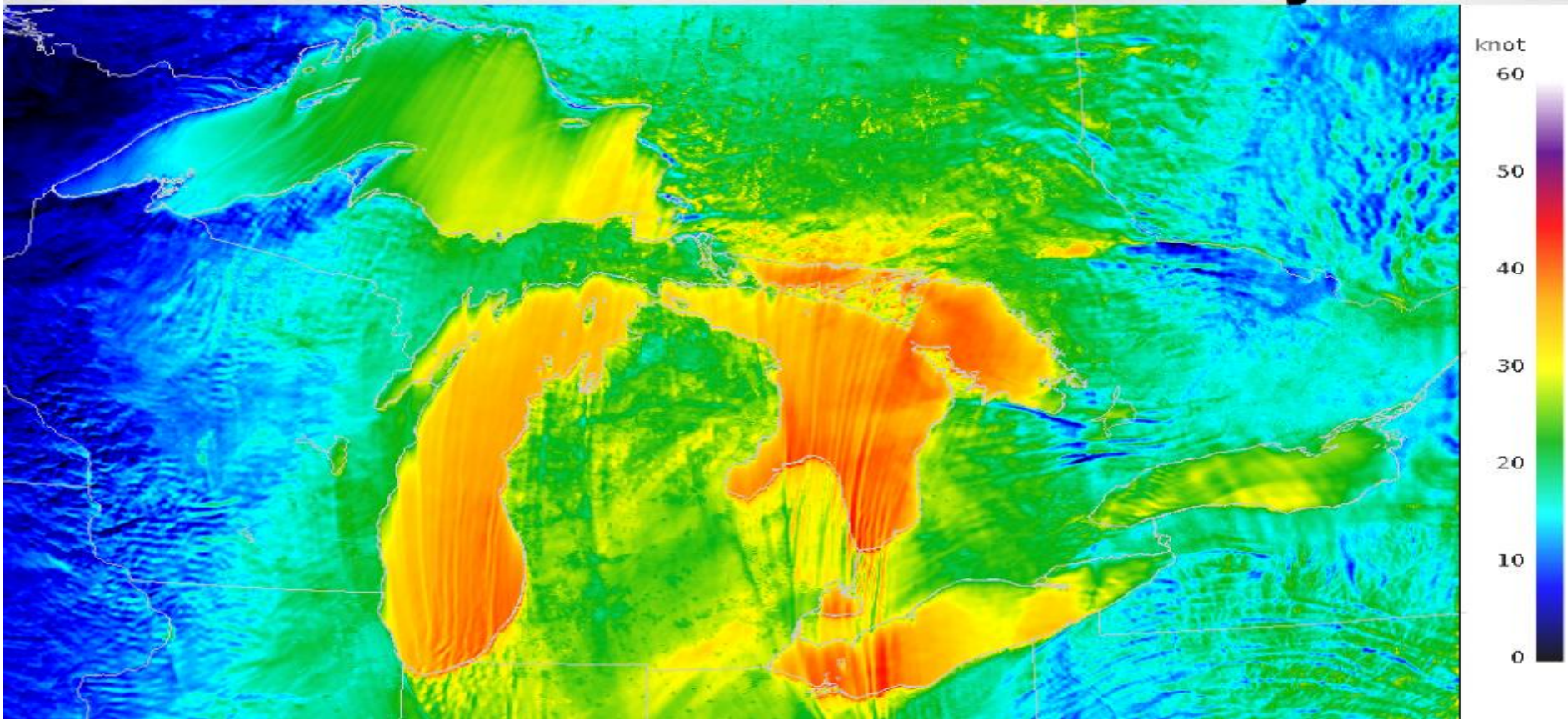
Occasional waves are only listed when predicted values are at or above 5 feet.

Occasional wave graphics will soon be posted on the Great Lakes Marine Web Portal

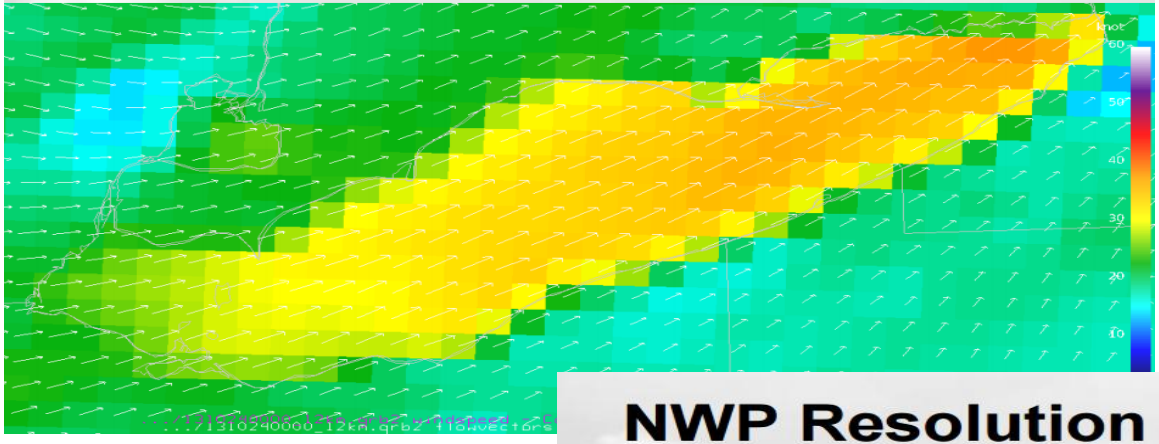




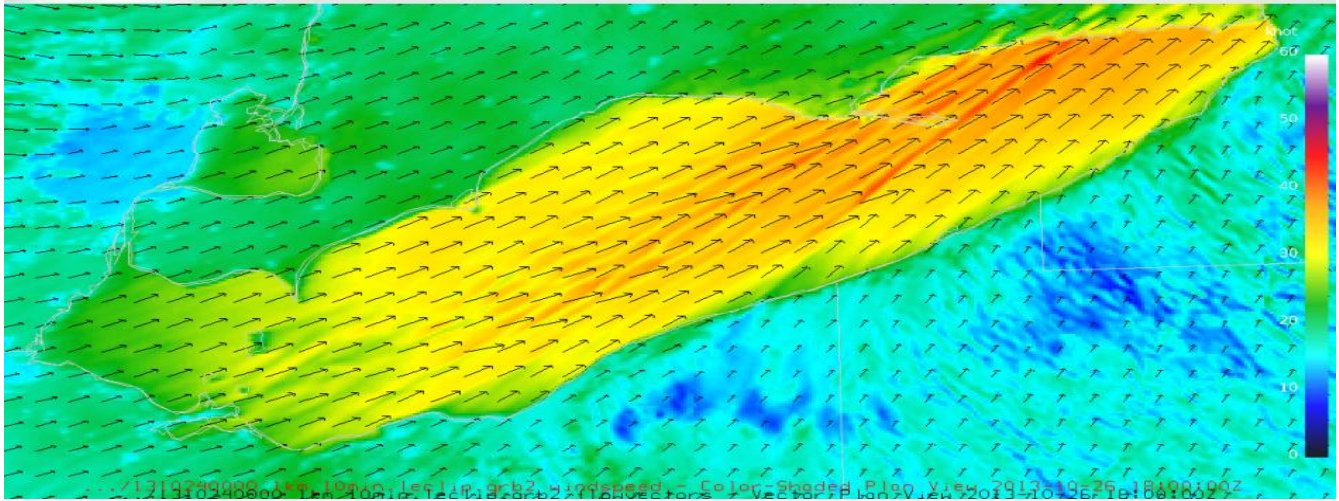
NWP Resolution - 1km of “Sandy”



NWP Resolution Comparisons - 12km

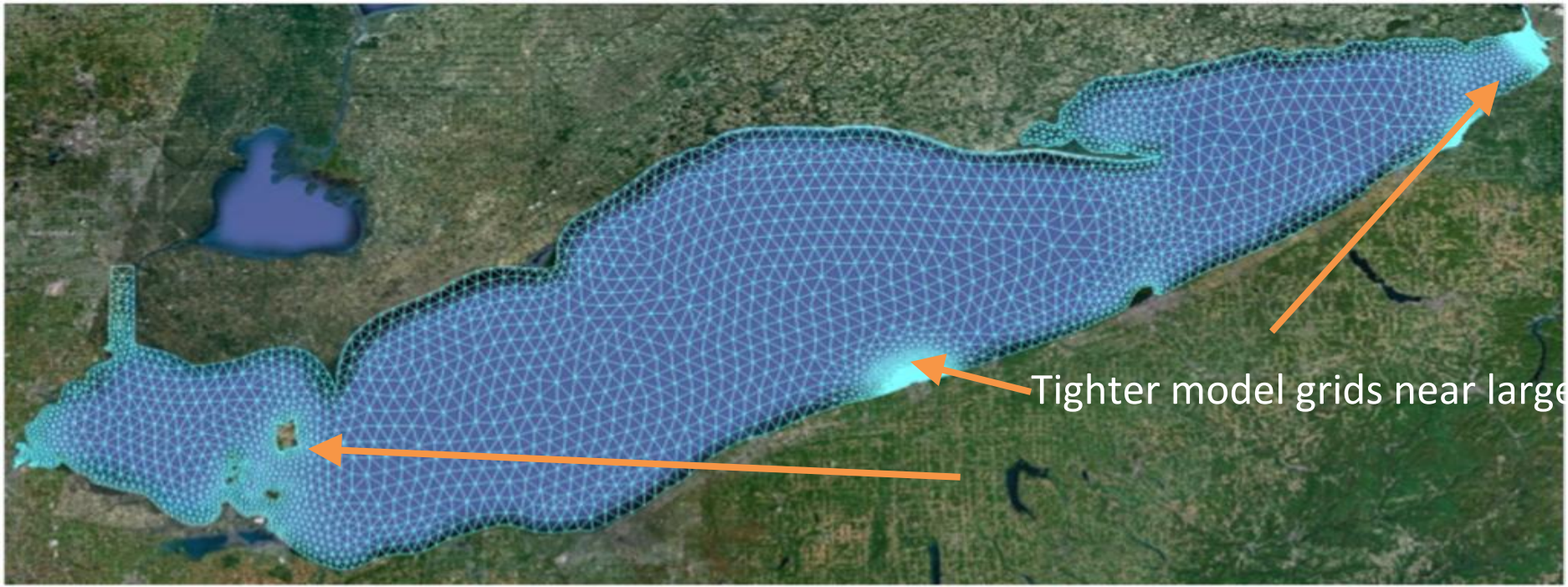


NWP Resolution Comparisons - 1km

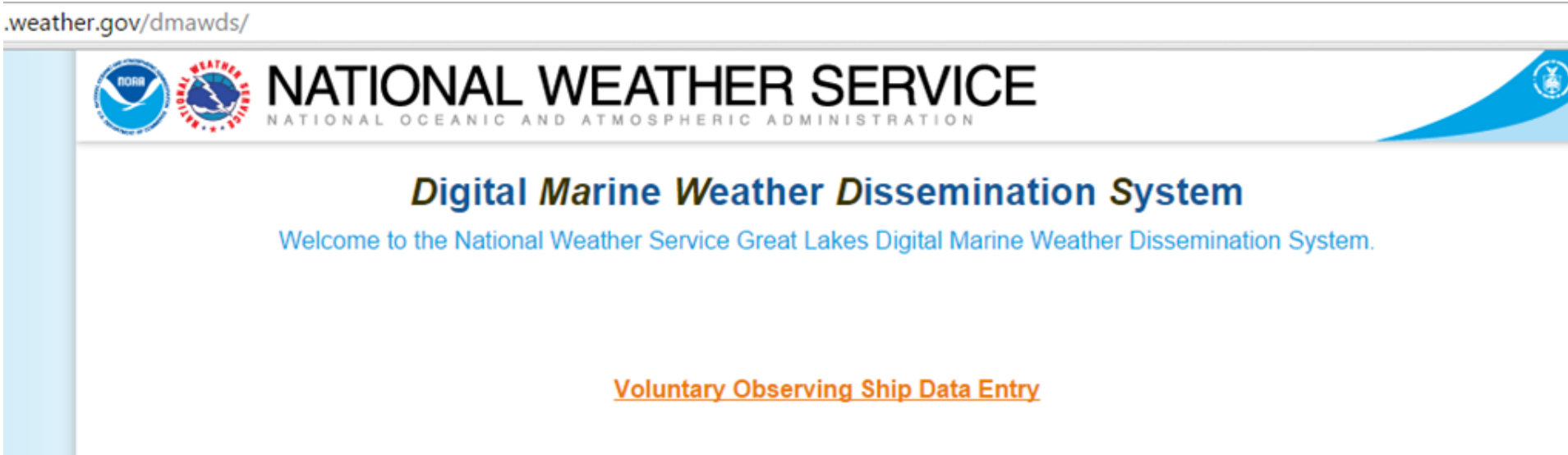


Great Lakes Modeling Initiatives

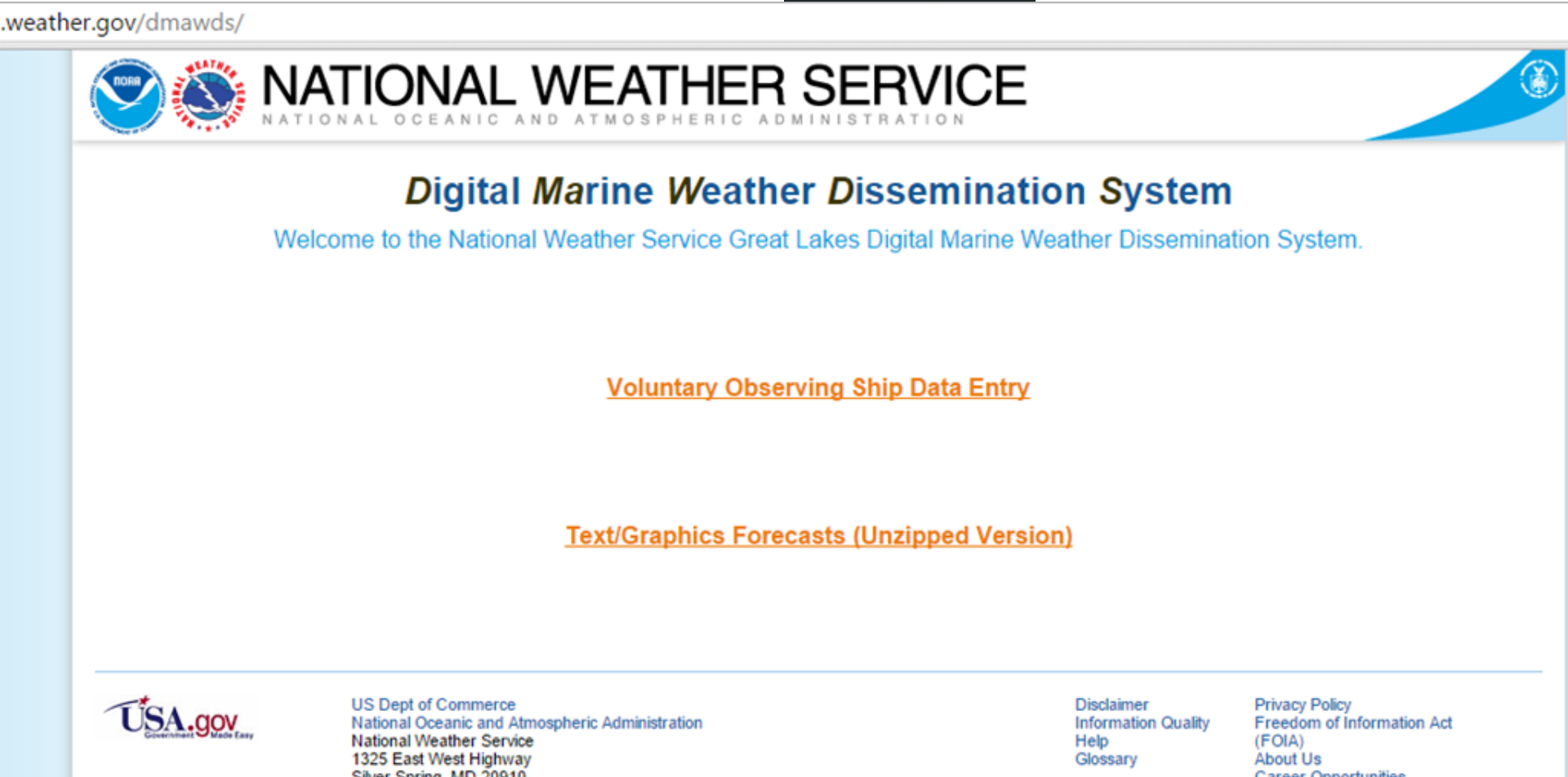
Finite Volume Coastal Ocean Model (FVCOM) uses unstructured grids to better fit irregular shorelines and create higher resolution and more accurate forecasts.



Great Lakes VOS Page



Changes to the DMAWDS Site



NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Ship Observation Entry Form

Welcome to the Voluntary Observing Ship data entry page. Thank you for taking the time to submit your observation. The data you enter here plays a major important role in producing accurate weather and wave forecasts. Your observation is included in the computer models that create weather and wind forecasts. The more initial data in the model, the better the forecast; especially over the data sparse open waters of the Great Lakes.

If you need to make a correction to your observation, click on the back button after you transmitted your observation and make the final correction and retransmit your observation.

Your ship's radio callsign (which is also your login ID here) must be registered with DMAWDS in order to send an observation.

Note: Any element in red denotes mandatory observed entry.

What is the radio call sign (ID) of your ship? (NOTE: USE LETTERS AND NUMBERS ONLY. NO SPACES.)

What is your DMAWDS password?

Day of the month in UTC: 09

Actual Time of Observation to the Nearest Whole Hour in UTC: 05

What is the latitude in tenths of a degree (example: 42.8)?

What is the longitude in tenths of a degree (example: 82.1)?

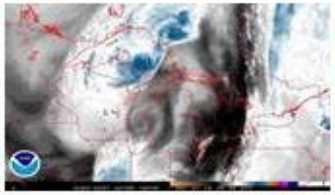
Enter the wind speed to the nearest knot (example: 12)?

Enter the wind direction in degrees (example: 90, 270):

Enter the wave height in feet (example: 6, 12)?

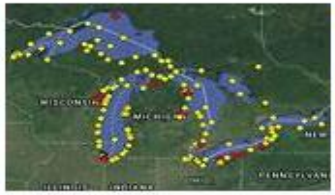
Great Lakes
Web Portal Changes

Radar



Satellite

Digital Graphics



Observations

Ice

Additional Resources for Great Lakes Graphical Forecasts

Text Products

Lake Superior
Lake Michigan
Lake Huron
Lake Erie
Lake Ontario
Area Forecast Discussions

GLERL Great Lakes Coastal Forecast System

Winds
Waves
Ice Cover

Seasonal

Great Lakes Ice
Beach Hazards

Safety & Education

NOAA Weather Radio
Rip Currents
Safe Boating
Beaufort Wind Scale
Marine Forecast FAQ
Sunrise/Sunset Info
Thunderbay National Marine Sanctuary

Science

CoastWatch
Edmund Fitzgerald
Great Lakes Storm of 1913
NOAA nowCoast
Tides & Currents

Forecast Offices

Buffalo, NY
Cleveland, OH
Chicago, IL
Detroit, MI
Duluth, MN
Gaylord, MI
Green Bay, WI
Grand Rapids, MI
Marquette, MI
Milwaukee, WI
Northern Indiana
Marine Forecast Offices
Nationwide

Partners

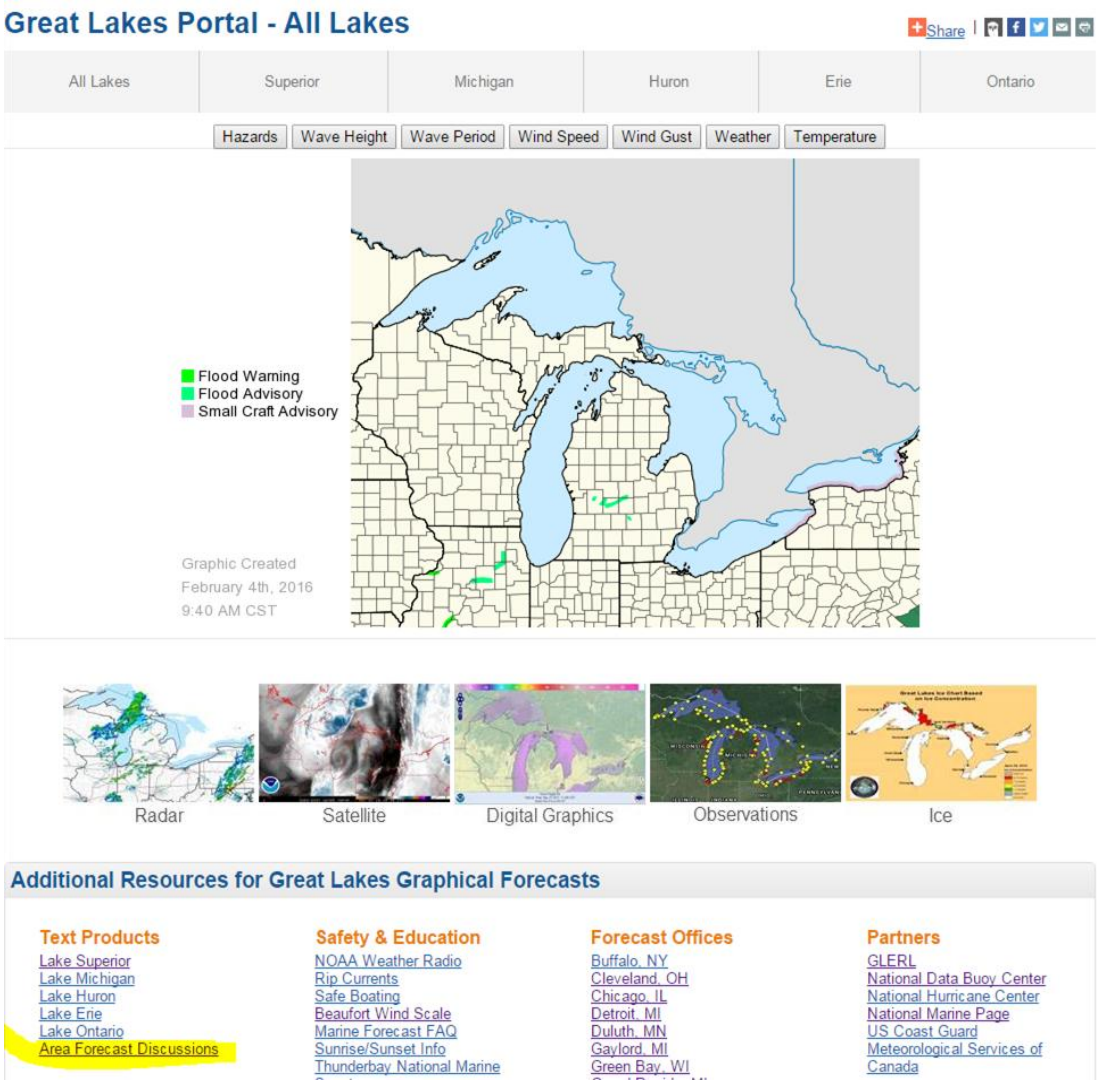
GLERL
National Data Buoy Center
National Hurricane Center
National Marine Page
US Coast Guard
Meteorological Services of Canada

Miscellaneous

Water Temperatures
Water Temperature
GLOFS
Nautical Charts
Bathymetry

Ever Wonder?

What are they thinking?



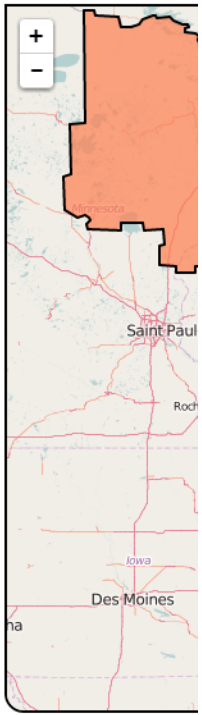
Great Lakes Area Forecast Discussions

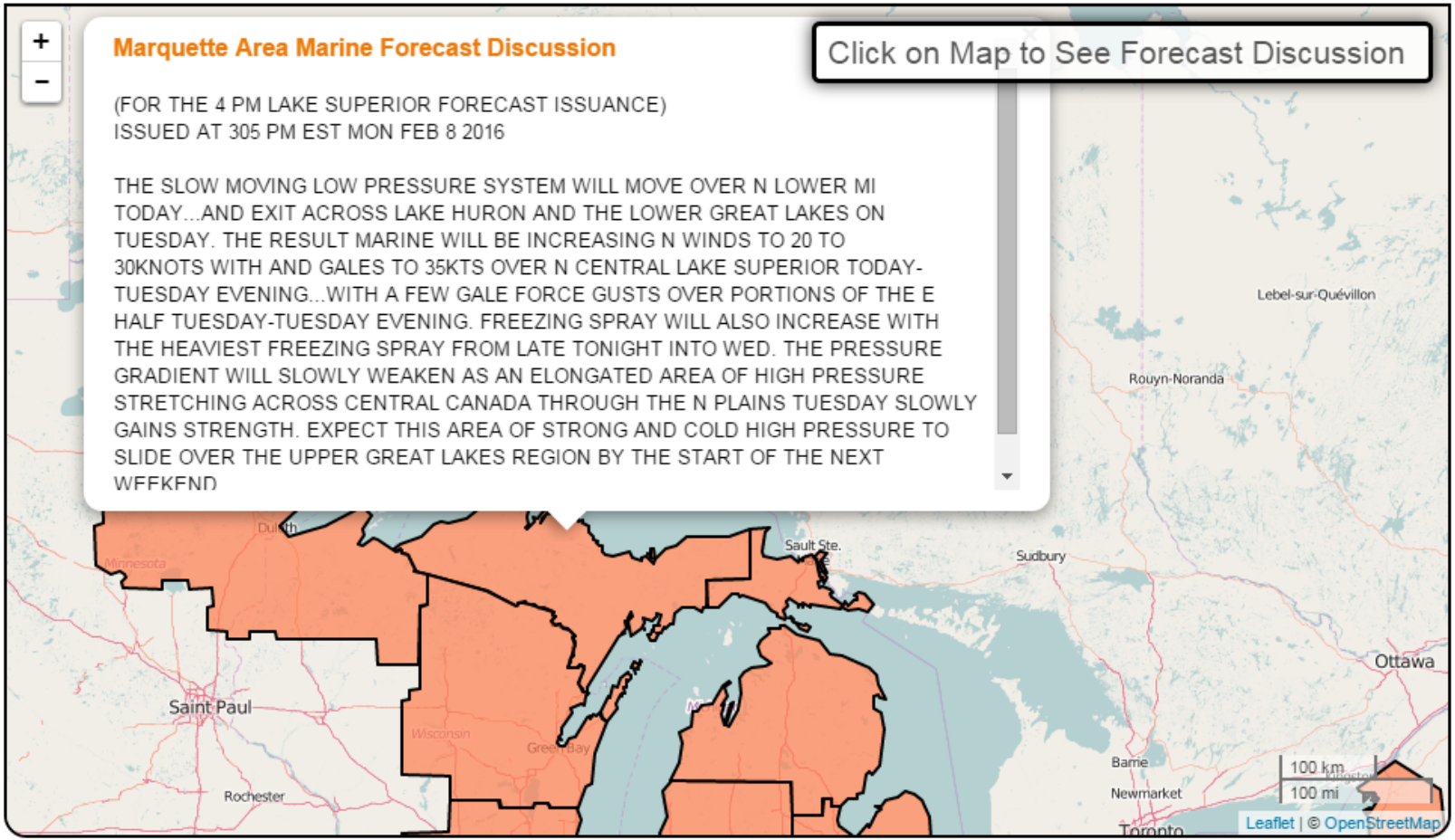
HOME FORECA

Local forecast by "City, St" or ZIP code

Enter location ... Go

Location Help





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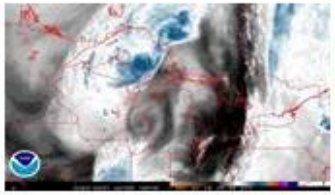

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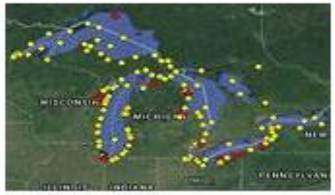

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Marine Forecast FAQ
Sunrise/Sunset Info
Thunderbay National Marine Sanctuary

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NOAA nowCoast
Tides & Currents

Forecast Offices

Buffalo, NY
Cleveland, OH
Chicago, IL
Detroit, MI
Duluth, MN
Gaylord, MI
Green Bay, WI
Grand Rapids, MI
Marquette, MI
Milwaukee, WI
Northern Indiana
Marine Forecast Offices
Nationwide

Partners

GLERL
National Data Buoy Center
National Hurricane Center
National Marine Page
US Coast Guard
Meteorological Services of Canada

Miscellaneous

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Water Temperature
GLOFS
Nautical Charts
Bathymetry