



MET Stations and Web Cams in the Great Lakes

NOAA GREAT LAKES ENVIRONMENTAL RESEARCH LABORATORY Real-Time Meteorological Observation Network www.glerl.noaa.gov/metdata

Met Data Stations:

- ◆ Alpena, MI
- ◆ Chicago, IL
- ◆ Michigan City, IN
- ◆ Milwaukee, WI
- ◆ Muskegon, MI
- ◆ South Haven, MI
- ◆ Thunder Bay Island, MI
- ◆ Toledo, OH

Web Cam Stations:

- ◆ Alpena, MI
- ◆ Chicago, IL
- ◆ Muskegon, MI
- ◆ Michigan City, IN
- ◆ South Haven, MI
- ◆ Toledo, OH



The Real-Time Meteorological Observation Network consists of coastal meteorological stations in Wisconsin, Michigan, Illinois, Indiana, and Ohio. Stations in Alpena, MI, Muskegon, MI, South Haven, MI, Michigan City, IN, Chicago, IL, and Toledo, OH also include web cameras.

All meteorological observation stations measure and record wind speed, wind gust, wind direction, air temperature, and wind chill. In addition, instruments in Muskegon and Michigan City measure dew point, relative humidity, atmospheric pressure, and light level. Data is recorded every 5 seconds and averaged over 5-minute intervals. These data are then uploaded to the Great Lakes Environmental Research Laboratory (GLERL) every 5 minutes. Webcam images are updated at 10-60 minute intervals.

Meteorological Observation Stations

www.glerl.noaa.gov/metdata

Meteorological observations are used in the Great Lakes Environmental Research Laboratory's Great Lakes Coastal Forecasting System to improve nowcasts and forecasts of waves, water levels, water temperature, and circulation. Observations from these stations are also provided to the National Weather Service marine forecast offices at Milwaukee, Chicago, and Grand Rapids in real time and to the National Data Buoy Center for archiving and dissemination through the AWIPS and NOAAPORT systems. Fishers, boaters, surfers, and other recreational users find the real-time conditions and WebCam images useful in making plans for when and where to venture out on the water.

Great Lakes Coastal Forecasting System

www.glerl.noaa.gov/res/glcfs/



WebCam photograph of the Chicago skyline from GLERL's Chicago Met Station

*"...just wanted to thank someone for the absolutely awesome cameras and wind information at the GLERL in Muskegon. We rely heavily on the information coming from that station on a daily basis - it's the first thing that I check every morning."
- MAC Kiteboarding*

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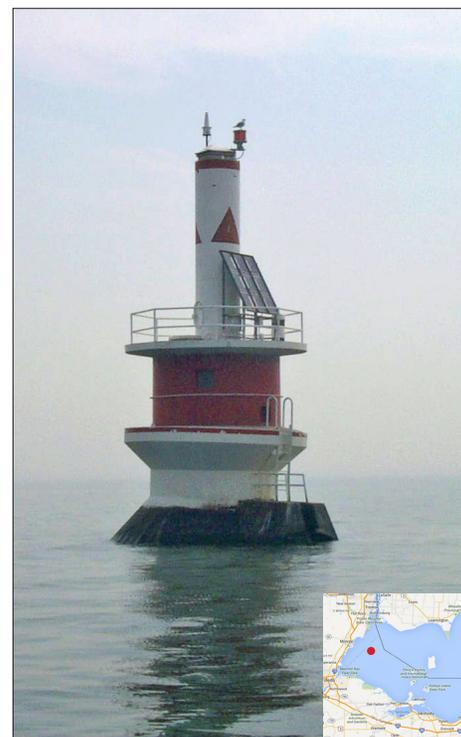
Real-Time Meteorological Data

Conditions at 10:20 am EST on 02/05/2016 (DOY 036 15:20 GMT)

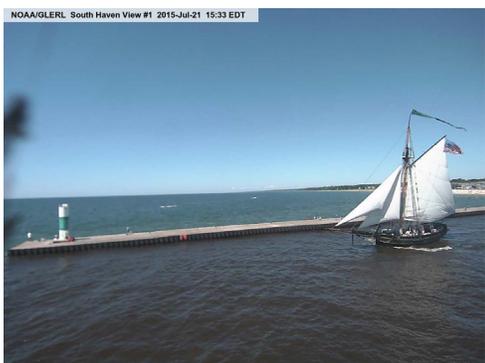
(Updated at about 03,13,23,33,43,53 minutes past the hour)

Wind Speed:	13.8 kts (7.1 m/s)
Max Wind Speed:	14.6 kts (7.5 m/s)
Wind Direction:	340° (NNW)
Air Temperature:	31.5 °F (-0.3 °C)
Wind Chill:	20.6 °F (-6.3 °C)
Dew Point:	25.4 °F (-3.7 °C)
Relative Humidity:	78.0 %
Station Pressure:	29.698 in Hg. (1005.7 mb)
Sea Level Pressure:	30.379 in Hg. (1028.7 mb)
PAR:	372 uEinst/m ² /sec
Data & Plots of Previous 3 Hours (2 minute increments)	

Above: Example of available real-time meteorological data — current conditions Muskegon Met Station. Below: Web cam views from the South Haven, Muskegon, and Alpena.



Toledo meteorological station located at the end of the Toledo shipping channel in the western basin of Lake Erie.



FOR MORE INFORMATION

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Laboratory (GLERL)

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www.glerl.noaa.gov

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