



Experimental Lake Erie Harmful Algal Bloom Bulletin

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Cyanobacteria has appeared in Lake Erie, generally at low concentrations. Some *Microcystis* is present in the Maumee Bay area. This is typical for this time of year. Imagery indicates detectable (but relatively low) concentrations near the Ohio coast for a small area east of Maumee Bay. Microcystins has been detected in Maumee Bay only, but at low concentrations that pose very low exposure risk. The central basin currently has a mild bloom of the cyanobacteria *Dolichospermum* (identified by OSU/Stone Lab), which was detectable Wed only in the basin west of Cleveland. Localized denser concentrations of cyanobacteria may appear near the Ohio coast in the central basin and last for a day or two depending on winds.

Light northerly winds are expected over the next day, with southerly winds Sunday into Monday. We do not expect significant bloom occurrence in the western basin over the next several days.

The persistent cyanobacteria bloom (of *Planktothrix* mixed with *Aphanizomenon*) continues in Sandusky Bay.

Dupuy, Stumpf

The images below are "GeoPDF". To see the longitude and latitude under your cursor, select "Tools > Analyze > Geospatial Location Tool".

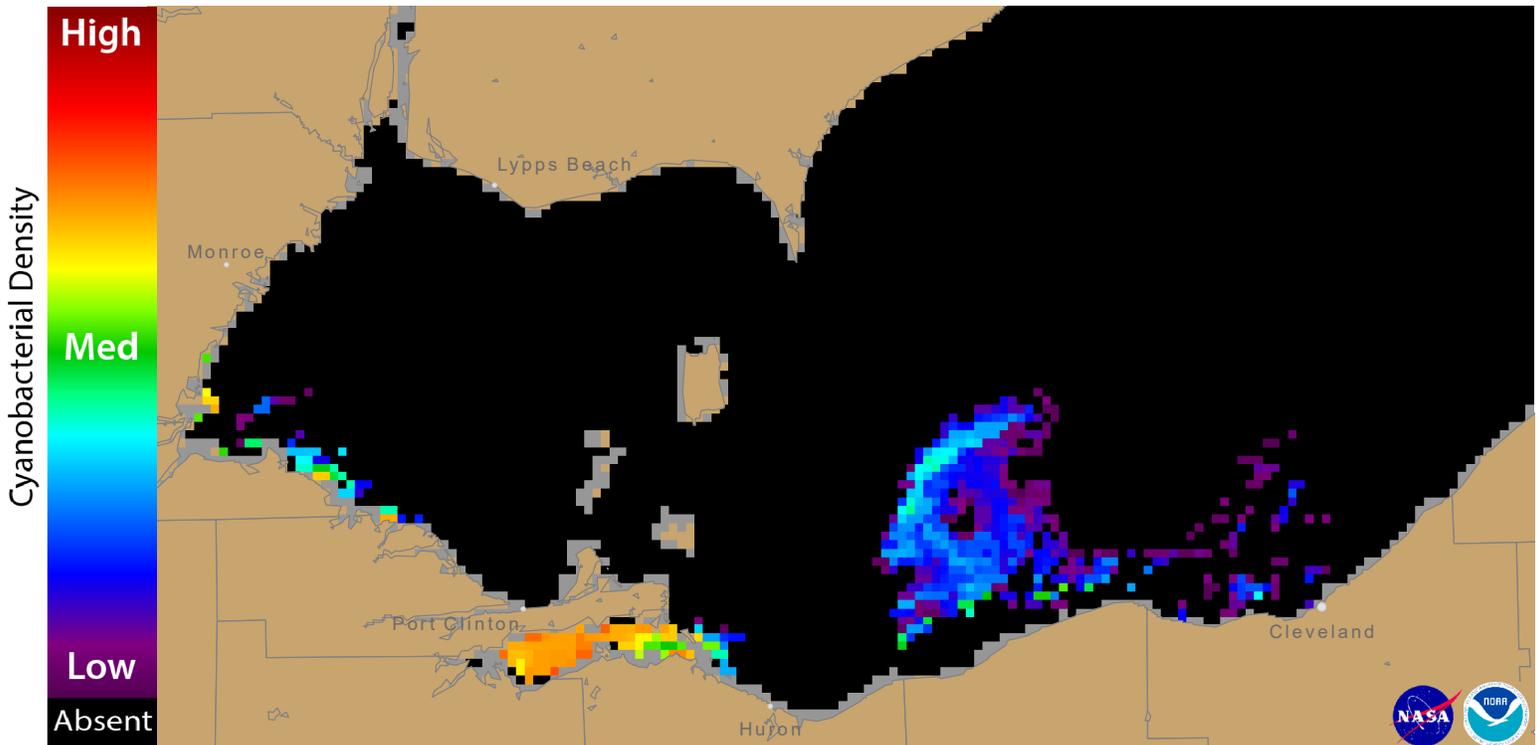
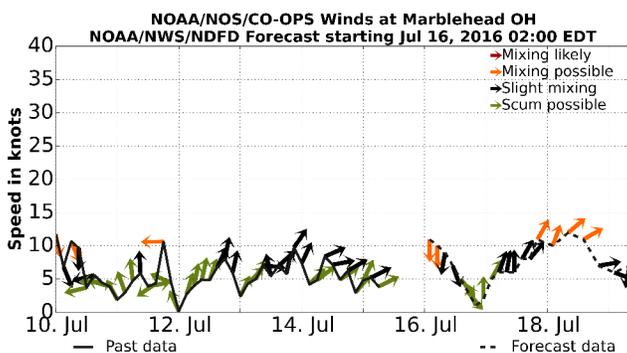
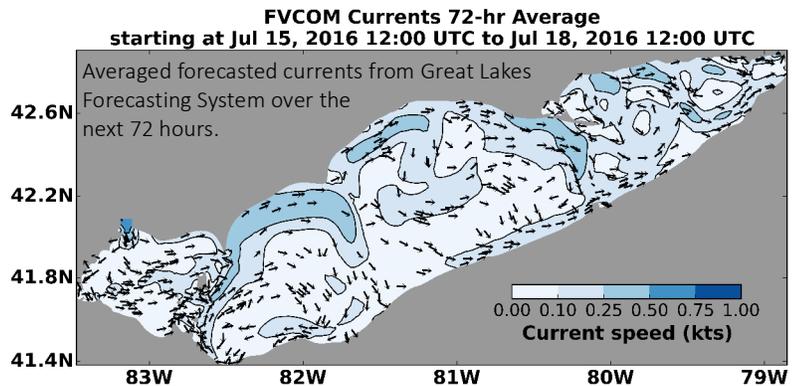


Figure 1. Cyanobacterial Index from NASA's MODIS-Aqua&Terra data collected 13 & 10 July 2016 at 1:14 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



Wind speed and direction from Marblehead, OH. Blooms mix through the water column at wind speeds greater than 15 knots (or 7.7 m/s).



Produced with Information from NOAA's: National Centers for Coastal Ocean Science, Great Lakes Environmental Research Laboratory, National Weather Service, Cleveland, Center for Operational Oceanographic Products and Services

Additional information from: Great Lakes Observing System, Ohio Environmental Protection Agency, Ohio State University, Stone Laboratory