



Experimental Lake Erie Harmful Algal Bloom Bulletin

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The cyanobacterial (*Microcystis*) bloom was not detectable on Sunday in western Lake Erie. Winds were moderate, but still strong enough to reduce surface concentrations.

Today (Monday), owing to light winds, we have the greatest likelihood of seeing any remnants of the bloom,. The most likely areas of any discoloration are in Maumee Bay, and east of the islands. Winds will pick up starting Tuesday, keeping the remaining cells down through the rest of the week. The water temperature has dropped below 68° F (20° C) across the lake, which will discourage cell growth.

The persistent cyanobacteria bloom continues in Sandusky Bay. Please check Ohio EPA's site on harmful algal blooms for safety information. <http://epa.ohio.gov/habalgae.aspx> With strong winds, be careful boating. --Stumpf, Dupuy.

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

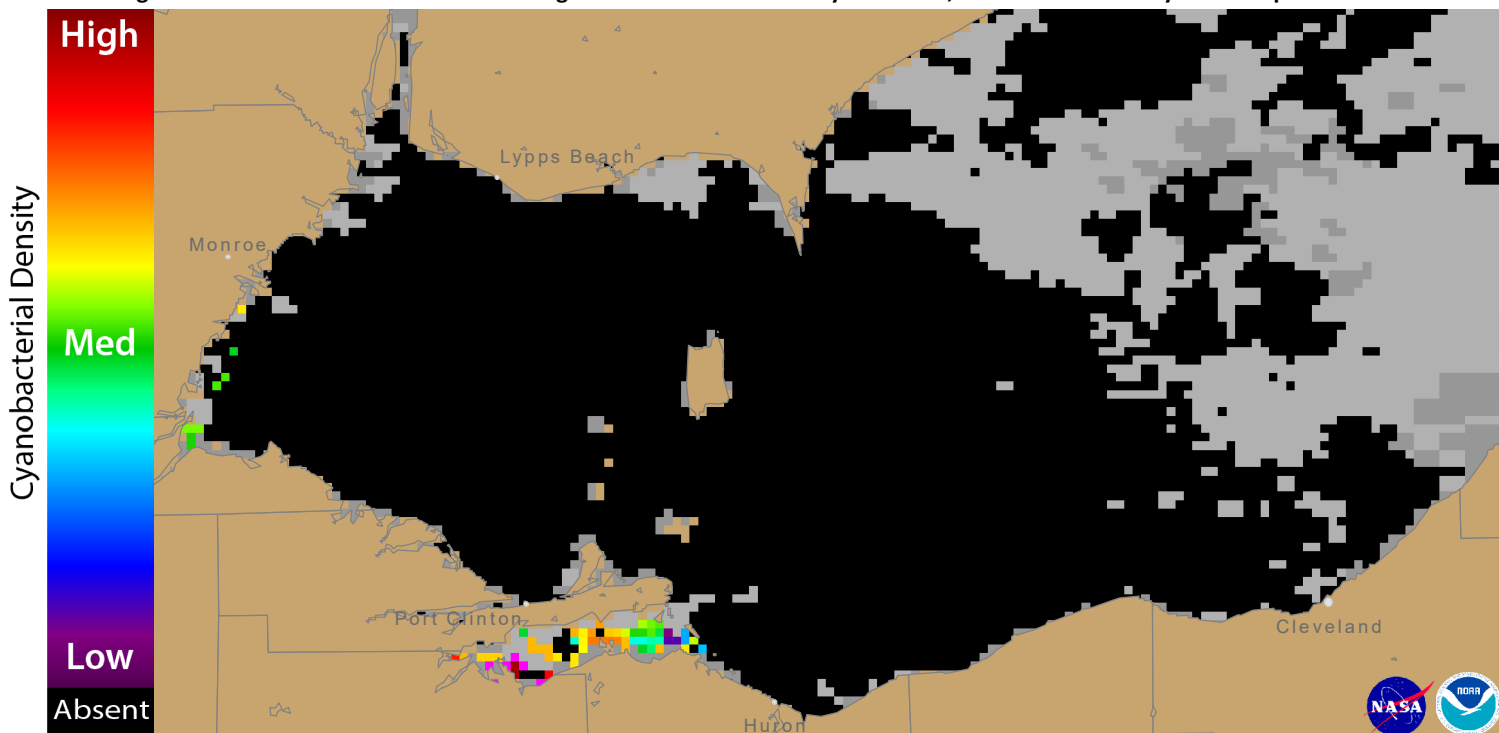
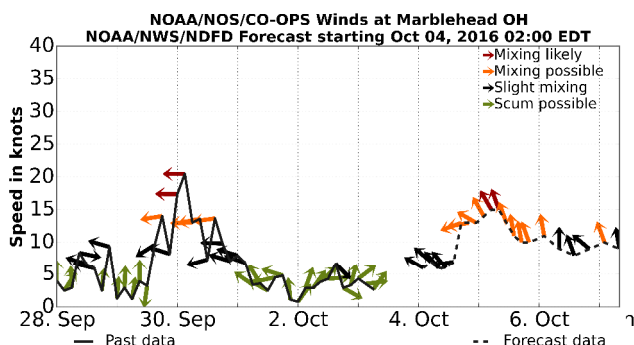
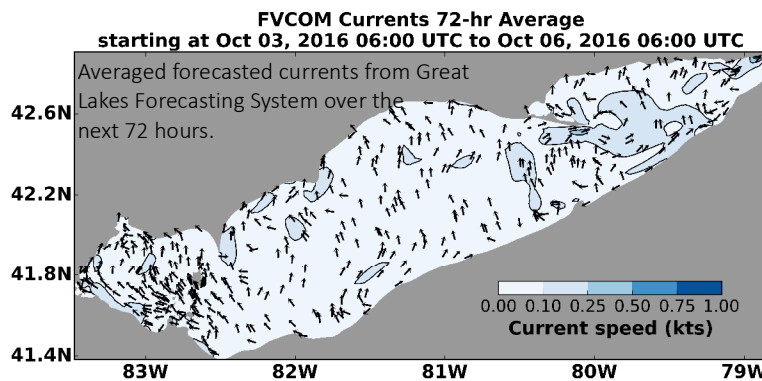


Figure 1. Cyanobacterial Index from NASA's MODIS-Aqua & Terra data collected 02 October, 2016 at 13:19 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



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