Experimental Lake Erie Harmful Algal Bloom Bulletin

29 September, 2016, Bulletin 24

The cyanobacterial (*Microcystis*) bloom was not detectable in western Lake Erie as a result of strong winds over the last few days.

Moderate to strong winds this week will reduce the bloom and will result in negligible or low concentrations in all areas. Winds will weaken by Sunday and Monday. Some bloom may be detectable near the surface to the east of the islands. The water temperature has dropped below 68° F (20° C), so the cells will stop growing, and the bloom should be detectable at the surface only under calm winds.

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

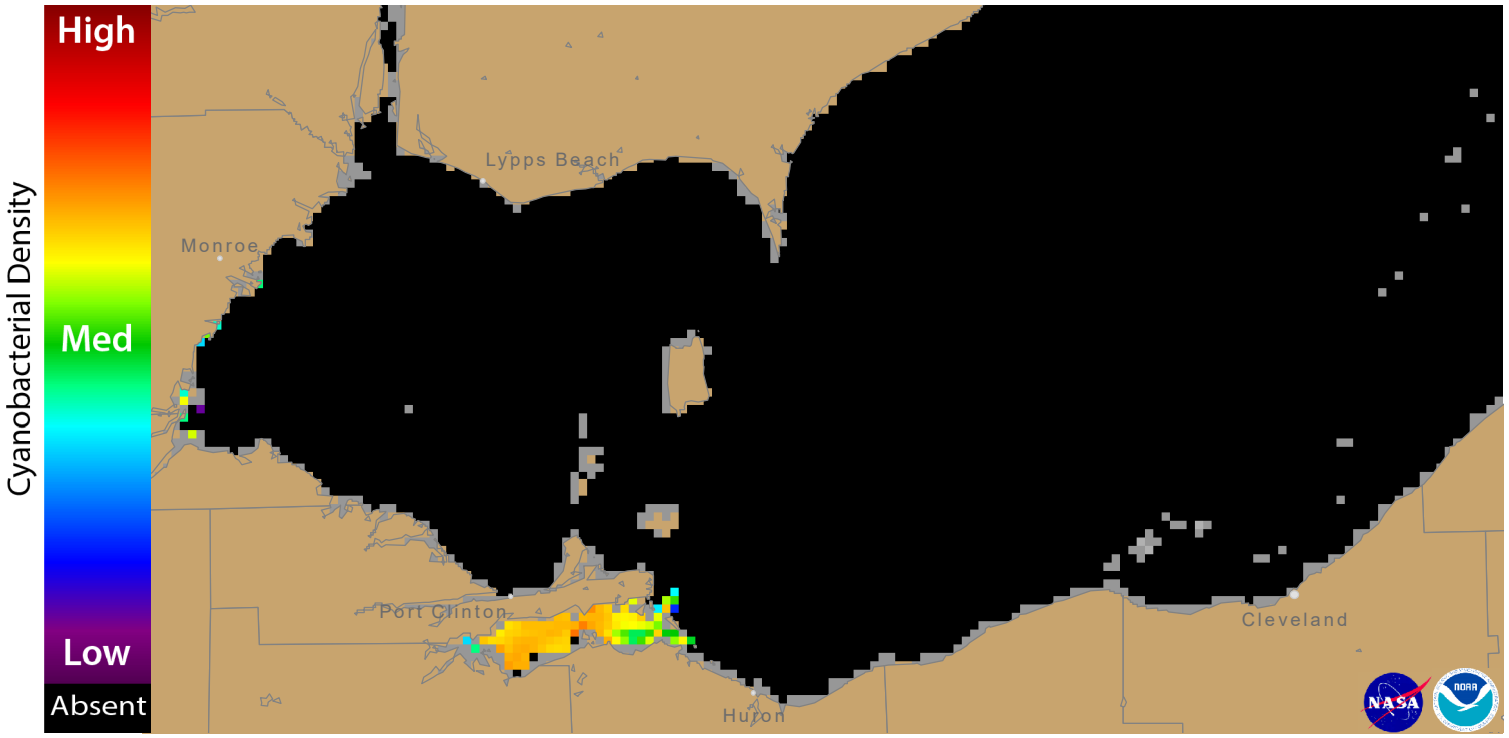
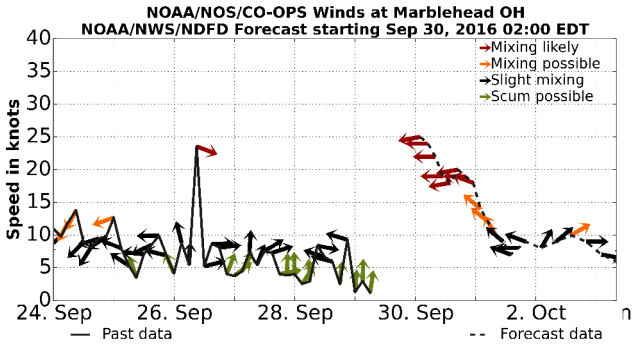
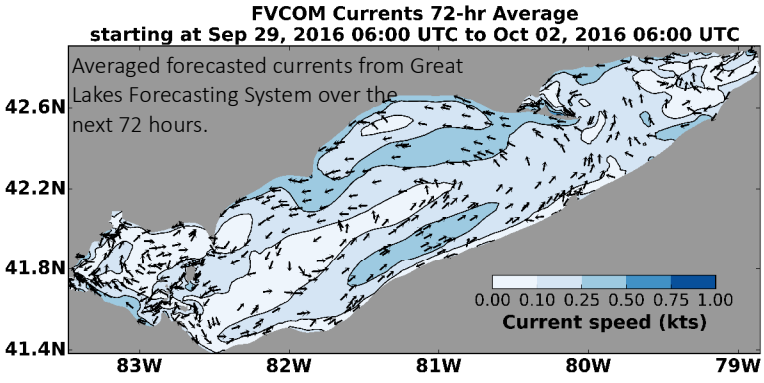


Figure 1. Cyanobacterial Index from NASA's MODIS-Aqua data collected 27 September, 2016 at 13:01 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



Wind speed and direction from Marbelhead, 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

For more information and to subscribe to this bulletin, go to: http://coastalscience.noaa.gov/research/habs/forecasting