



Lake Erie Harmful Algal Bloom Bulletin

30 September, 2019, Bulletin 27

Analysis

Microcystis cyanobacteria continues to decline in the western basin of Lake Erie. Recent satellite imagery (9/27) is partially obscured by clouds limiting analysis. Chlorophyll associated with *Microcystis* is no longer visible along the Ohio coast from Maumee Bay State Park to the Marblehead Peninsula. The persistent cyanobacteria bloom in Sandusky Bay continues.

Forecasts

Water temperatures are approaching the threshold 68°F (20°C), limiting the growth of *Microcystis*. Variable winds (5-14 kn) today through Thursday (9/30-10/03) will promote mixing and minimize potential transport of remaining surface *Microcystis* concentrations. - Jima, Davis

Additional Resources

To find a safe place for recreation, visit the Ohio DOH "BeachGuard" site: <http://publicapps.odh.ohio.gov/beachguardpublic/>
Ohio EPA's site on harmful algal blooms: <http://epa.ohio.gov/HAB-Algae>
NOAA's GLERL provides additional HAB data here: http://www.glerl.noaa.gov/res/HABs_and_Hypoxia

The images below are "GeoPDF". Please visit <https://go.usa.gov/xReTC> for instructions on viewing longitude and latitude.

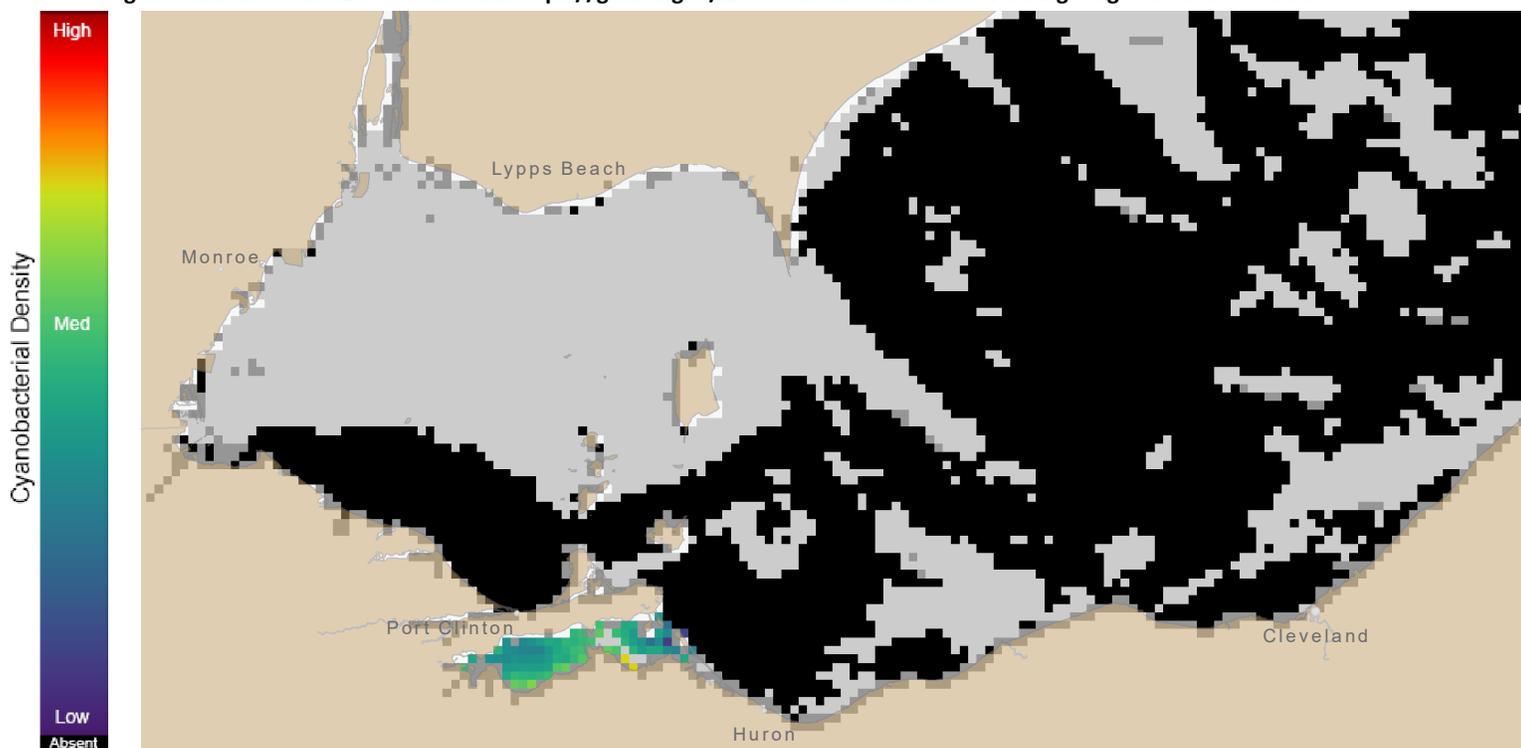
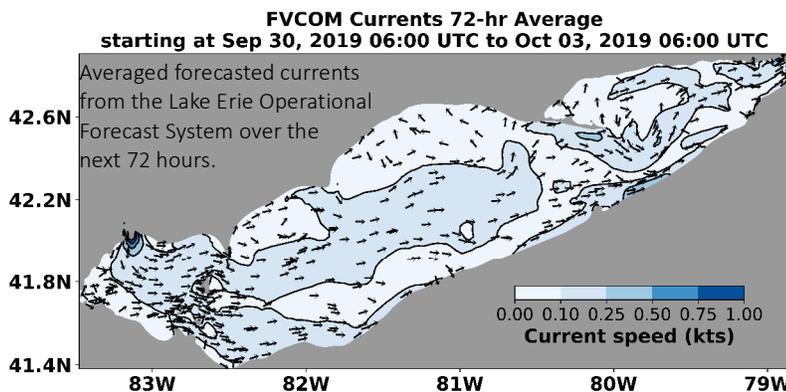
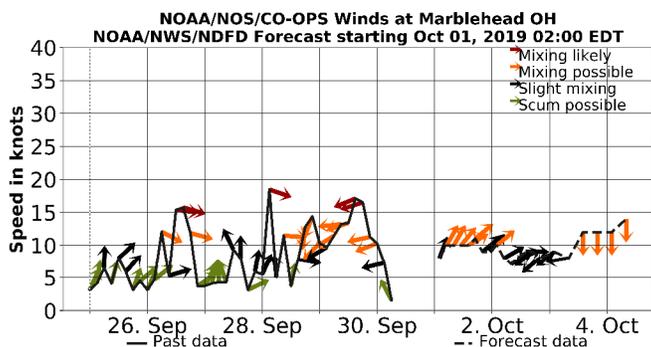


Figure 1. Cyanobacterial Index from NASA MODIS-Aqua data collected 27 September, 2019 at 13:07 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



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).

For more information and to subscribe, please visit the NOAA HAB Forecast page: <https://tidesandcurrents.noaa.gov/hab/lakeerie.html>