



# Lake Erie Harmful Algal Bloom Bulletin

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## Analysis

*Microcystis* cyanobacteria in the western basin of Lake Erie continues to decrease in concentration and extent. Observed winds (9/30-10/2) caused mixing that may have reduced any remaining surface concentrations. Recent satellite imagery (10/01) is partially obscured by clouds limiting analysis, but no chlorophyll is visible alongshore Michigan and Ohio coasts. The persistent cyanobacteria bloom in Sandusky Bay continues.

## Forecasts

Forecast winds (8-19 kn) today through Monday (10/3-7) will be suitable for mixing and minimize potential transport of any remaining *Microcystis* concentrations. The water temperature in the western basin is decreasing and approaching the threshold 68°F (20°C), thereby limiting the growth of *Microcystis*. -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](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.

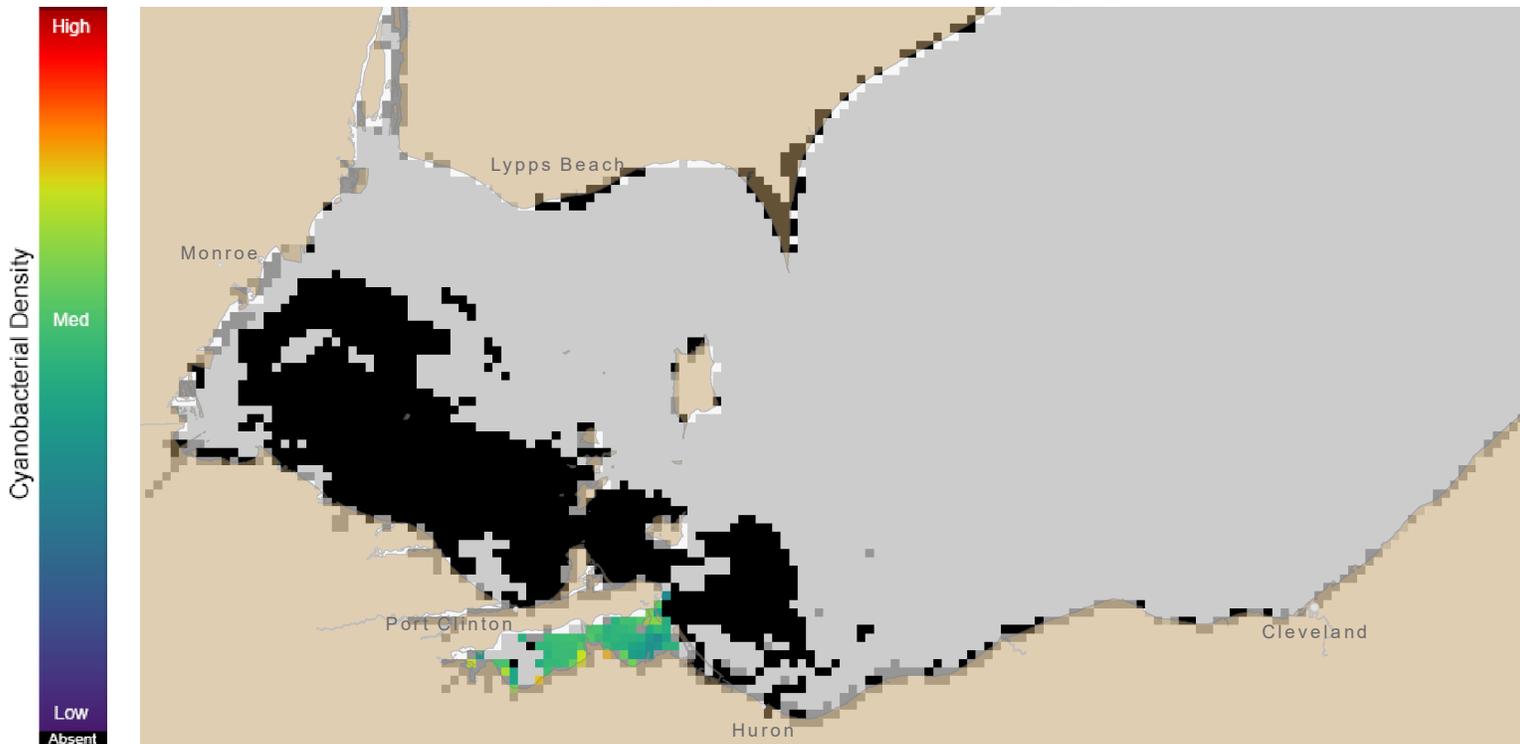
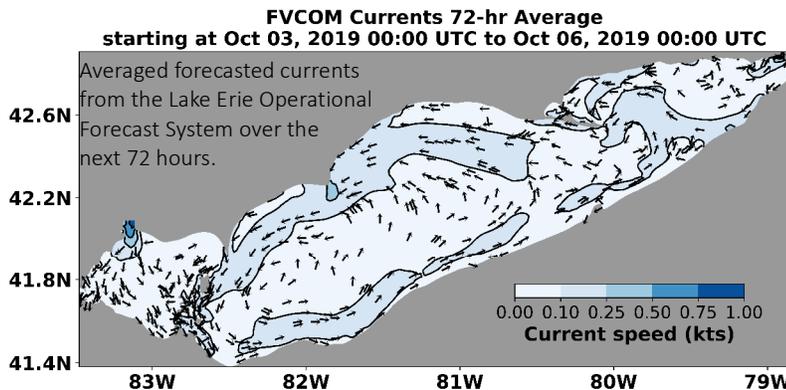
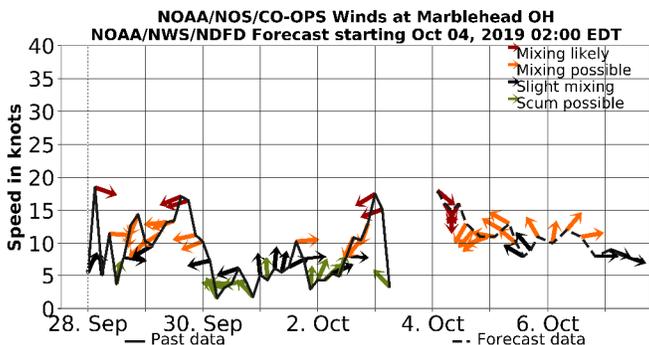


Figure 1. Cyanobacterial Index from NASA MODIS-Aqua data collected 01 October, 2019 at 14:20 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



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>