



Lake Erie Harmful Algal Bloom Bulletin

10 September, 2018, Bulletin 24

Analysis

The *Microcystis* cyanobacteria bloom continues in the western basin of Lake Erie. Recent satellite imagery (9/7) is obscured by clouds over most of the western basin, but shows concentrations in Maumee Bay. Winds observed over the weekend (9/7-9) promoted mixing of *Microcystis* concentrations. Toxin concentrations were detected at all sampling sites but remain below the recreational threshold. *Keep pets and yourself out of the water in areas where scum is forming.* The persistent cyanobacteria bloom in Sandusky Bay continues.

Forecasts

Winds (3-12 kn) forecast tonight through Thursday (9/10-13) will promote slight mixing of surface waters. Clouds will likely obscure the lake through Thursday. --Ludema, 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.

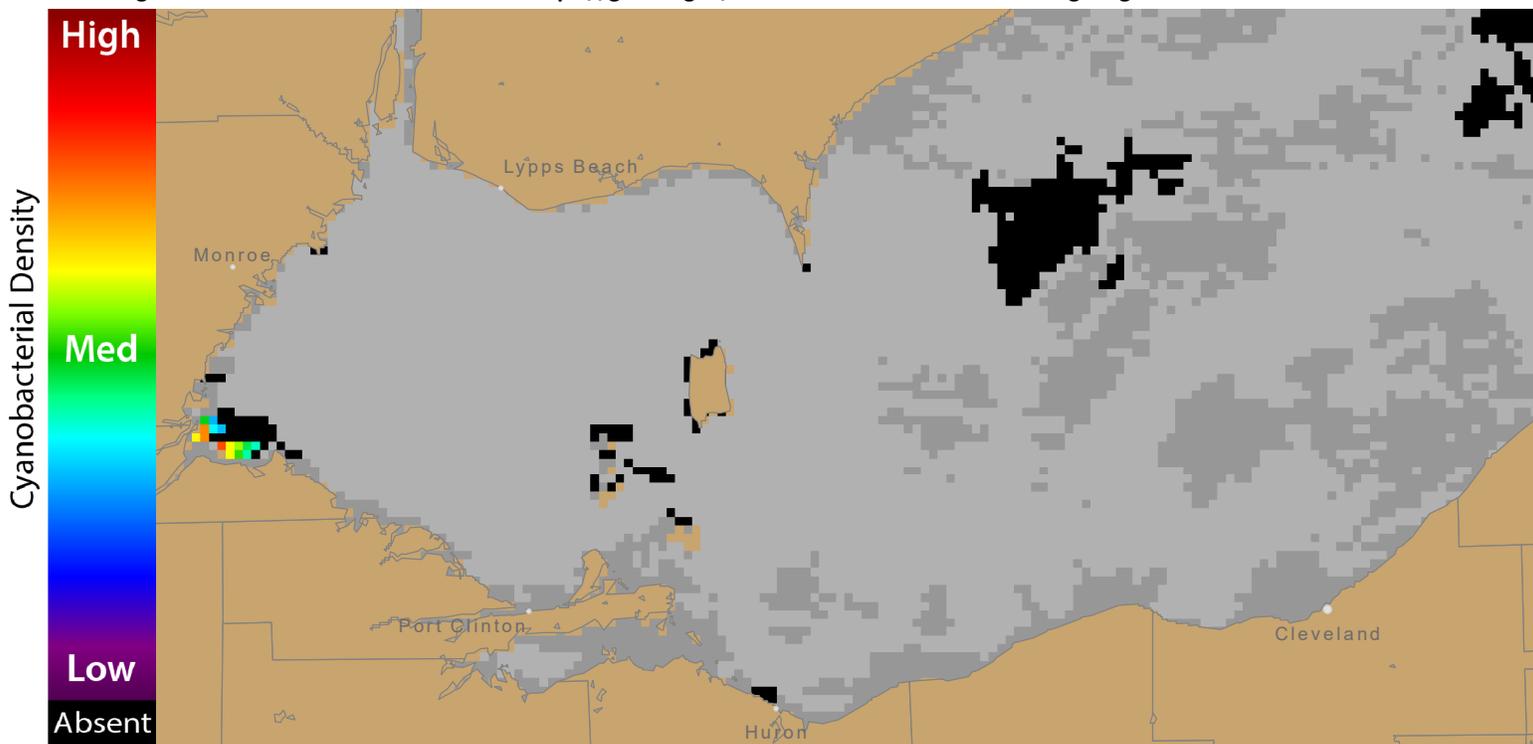
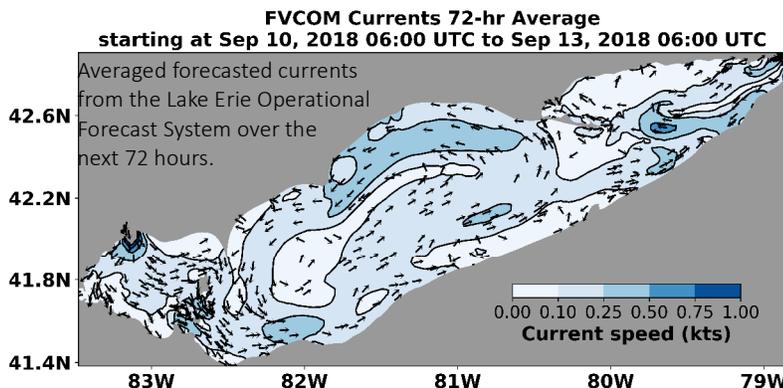
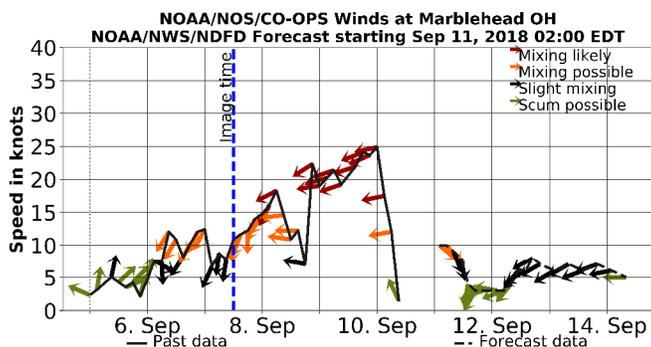


Figure 1. Cyanobacterial Index from NASA MODIS-Terra data collected 07 September, 2018 at 12:20 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



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>