



Lake Erie Harmful Algal Bloom Bulletin

23 July, 2018, Bulletin 10

Analysis

The *Microcystis* cyanobacteria bloom continues in the western basin. Recent imagery is completely obscured by clouds, preventing analysis of bloom extent. Observed winds over the weekend (7/21-22) caused mixing that may have reduced surface concentrations from earlier. Measured toxin concentrations are increasing and detectable at most samples sites, but still below the recreational threshold throughout most of the bloom extent. *Keep pets and yourself out of the water in areas where scum is forming.* The persistent cyanobacteria bloom in Sandusky Bay continues.

Forecasts

Forecast winds (3-7 kn) tomorrow through Thursday (7/24-26) may lead to scum formation in areas of high concentrations of *Microcystis*. Clouds will likely obscure the lake through Wednesday.

- 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.

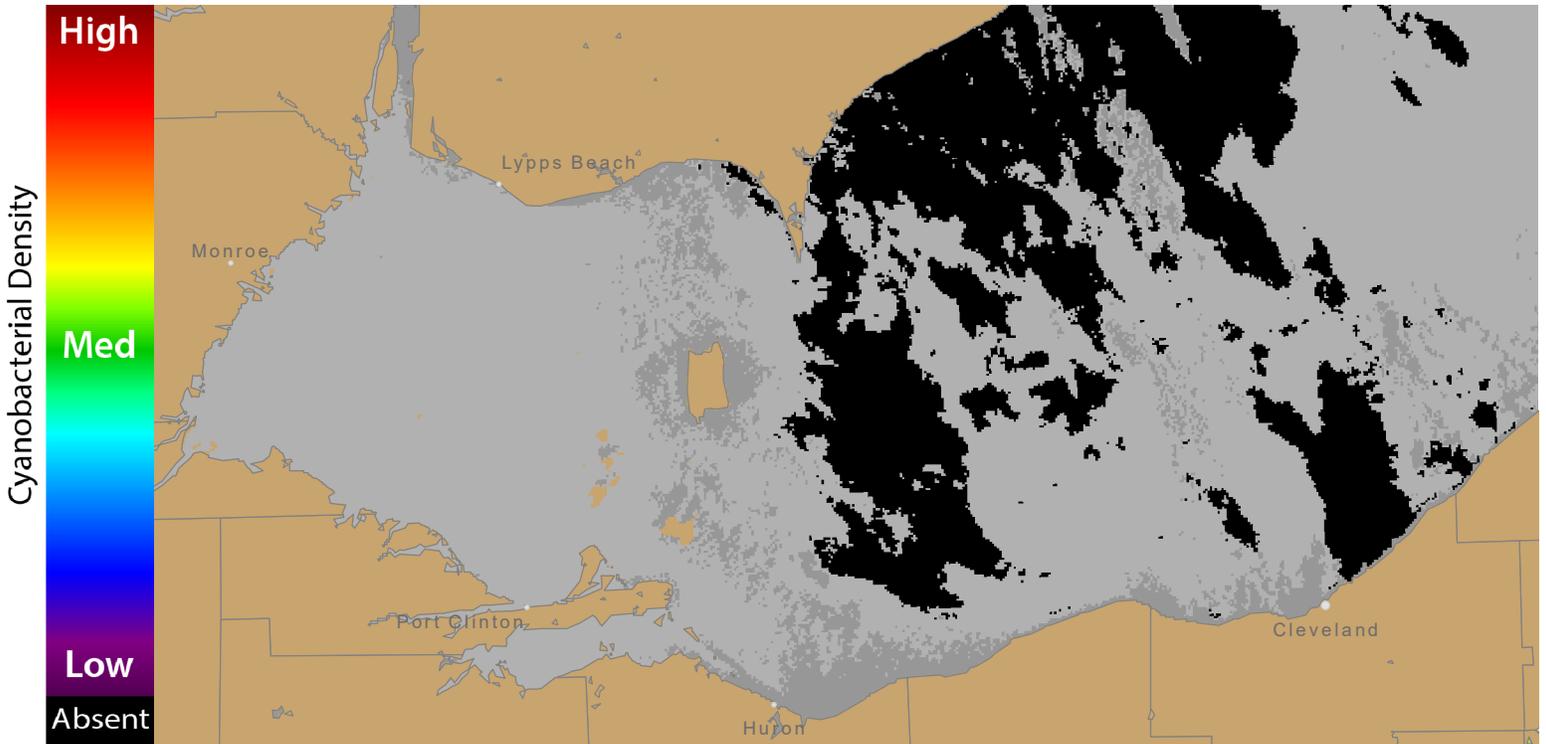
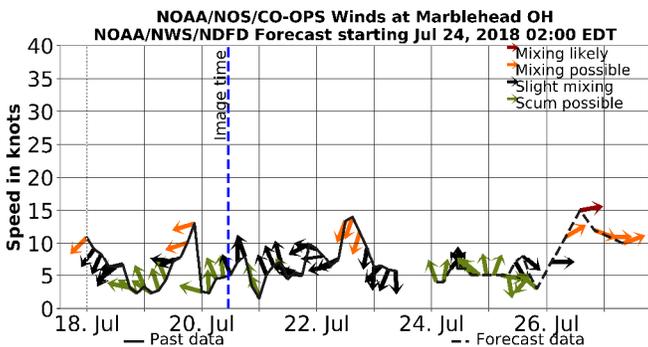
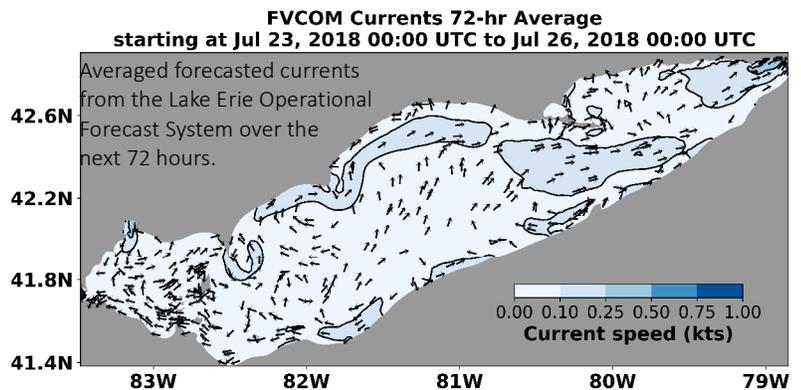


Figure 1. Cyanobacterial Index from modified Copernicus Sentinel 3 data collected 20 July, 2018 at 11:53 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



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>