



# Lake Erie Harmful Algal Bloom Bulletin

25 June, 2018, Bulletin 01

## Analysis

Cyanobacteria is present in Lake Erie at low concentrations. Some *Microcystis* is present in the western basin, west of the Sister Islands and inside Maumee Bay. Imagery from 6/24 is obscured by clouds, limiting analysis. Measured toxin concentrations are below recreational thresholds throughout the bloom extent. The persistent cyanobacteria bloom in Sandusky Bay continues. No other blooms are present in Lake Erie.

## Forecasts

Forecast winds (9-17kn) today through Thursday (6/24-28) will increase the potential for mixing of *Microcystis*. We do not expect significant bloom occurrence in the western basin over the next several days. —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](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.

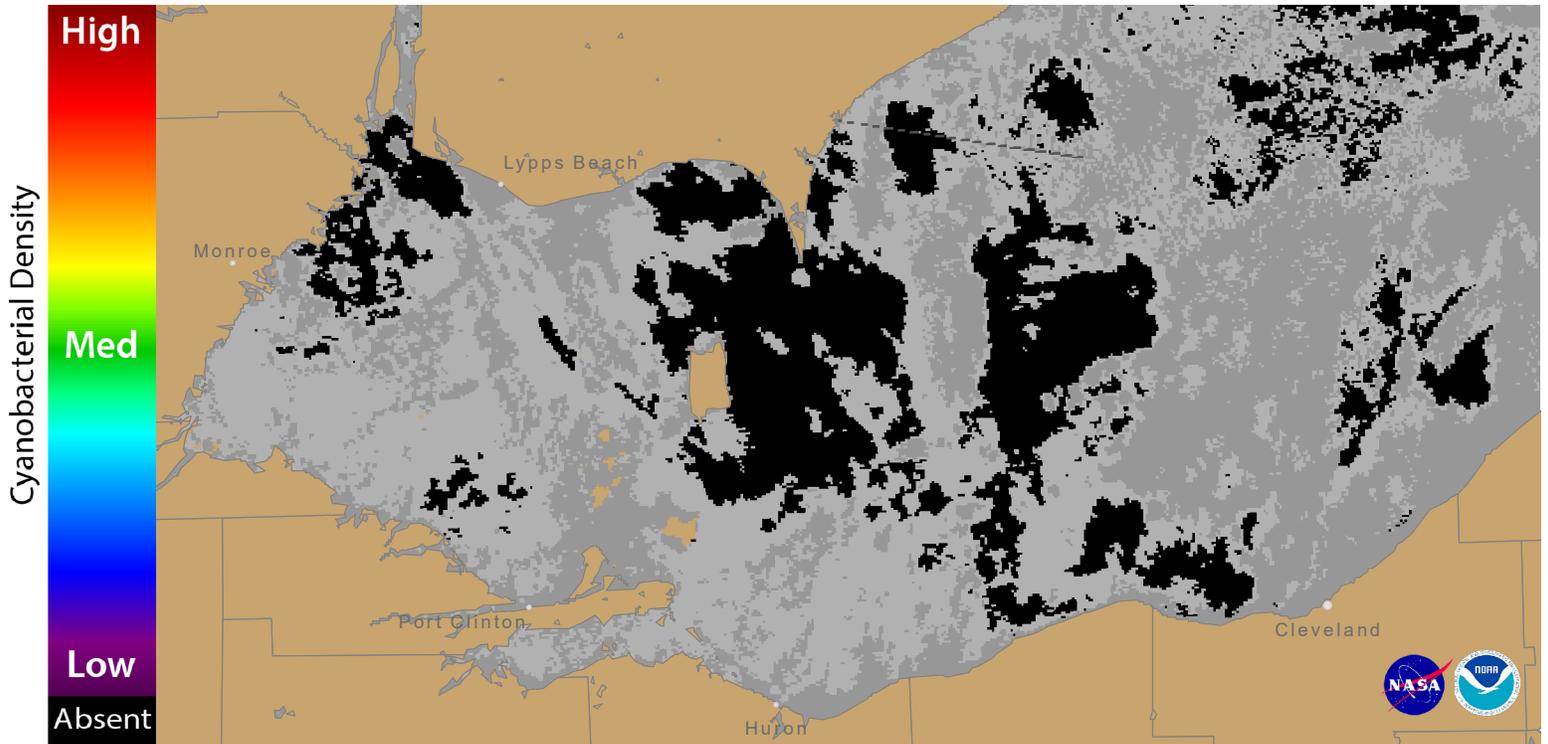
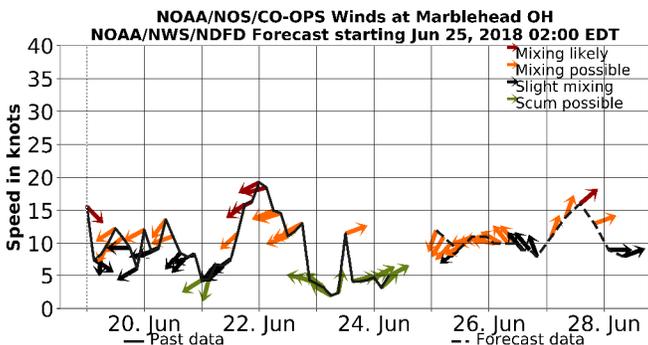
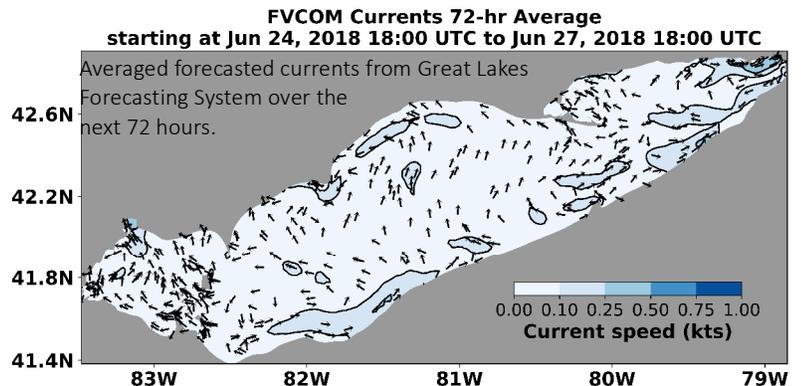


Figure 1. Cyanobacterial Index from modified Copernicus Sentinel 3 data collected 24 June, 2018 at 11:27 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



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>