Lake Erie Harmful Algal Bloom Bulletin
03 October, 2019, Bulletin 28

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

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.](https://tidesandcurrents.noaa.gov/hab/lakeerie.html

![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).](https://tidesandcurrents.noaa.gov/hab/lakeerie.html

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