Lake Erie Harmful Algal Bloom Bulletin

11 October, 2018, Bulletin 33

Note: As of today, Thursday, October 11, twice weekly bulletins for Lake Erie will no longer be issued. Sampling is being discontinued by GLERL and conditions in Lake Erie are no longer favorable for blooms of microcystis. We will track conditions and resume bulletin production if conditions warrant.

Microcystis continues to decline in recent satellite imagery and toxins continue to decrease and are below detection limits at most stations.

Forecast winds (10-28 kn) today through Monday (10/11-15) will likely cause mixing and eastward transport of remaining *Microcystis* concentrations. The water temperature in the western basin remains 68˚F (20˚C) and below, which will continue to decrease bloom concentrations. -Lalime, Ludema

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.

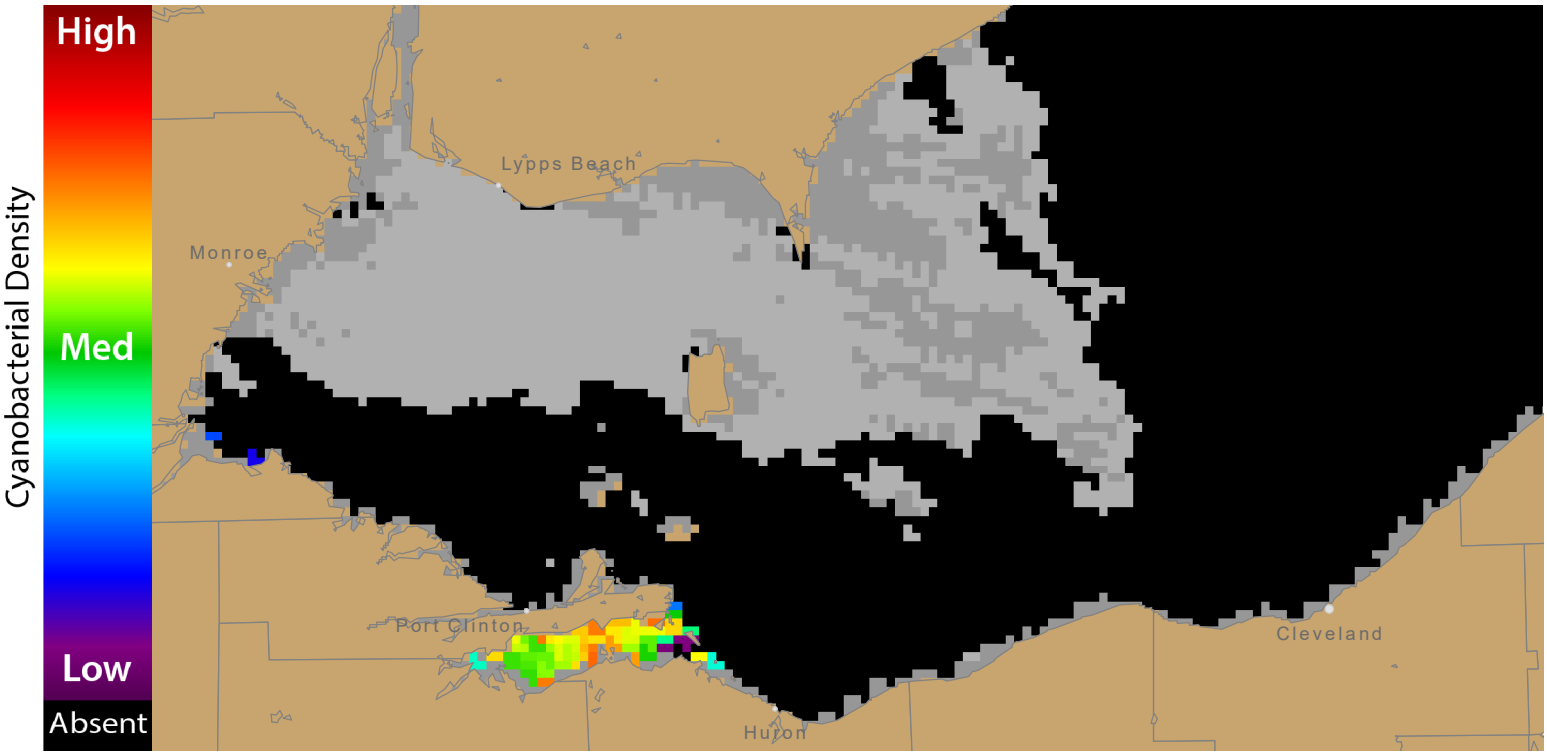
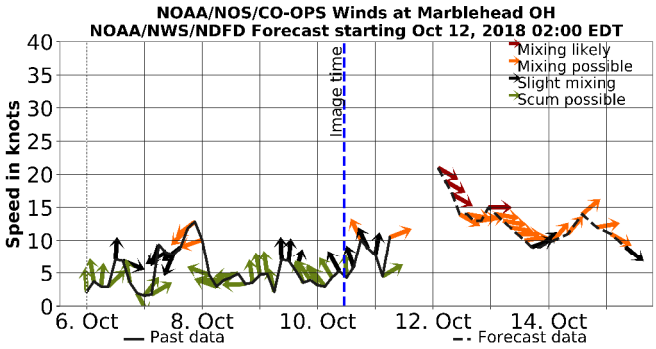
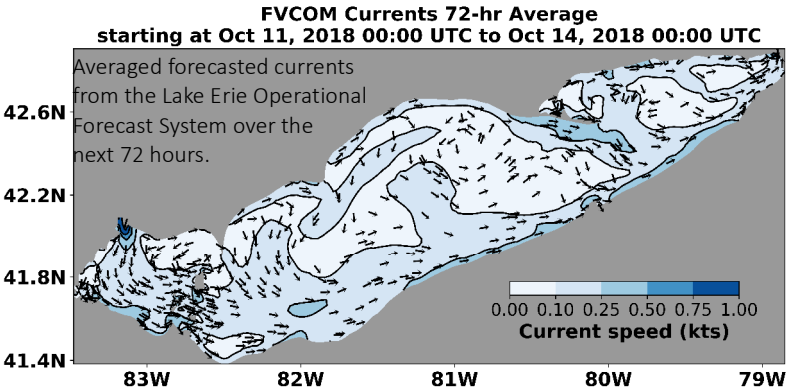


Figure 1. Cyanobacterial Index from NASA MODIS-Terra data collected 10 October, 2018 at 11:25 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



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 Foreacst page: https://tidesandcurrents.noaa.gov/hab/lakeerie.html