



# Lake Erie Harmful Algal Bloom Bulletin

20 July, 2017, Bulletin 03

The *Microcystis* cyanobacteria bloom is present in low concentrations in the western basin, extending north from Maumee Bay stretching along- and offshore the Michigan coast to Brest Bay with a small patch offshore the Ohio coast northwest of the mouth of the Toussaint River. Measured toxin concentrations are below recreational thresholds throughout the bloom extent.

Forecast winds (5-10kn) today through Saturday (7/20-22) may promote a slight potential for mixing of surface concentrations of *Microcystis*.

The persistent cyanobacteria bloom of *Planktothrix* continues in Sandusky Bay and extends into Lake Erie.

NOAA's GLERL provides additional HAB data: [https://www.glerl.noaa.gov/res/HABs\\_and\\_Hypoxia](https://www.glerl.noaa.gov/res/HABs_and_Hypoxia).

- Kavanaugh, Urizar

The images below are "GeoPDF". To see the longitude and latitude under your cursor, select "Tools > Analyze > Geospatial Location Tool".

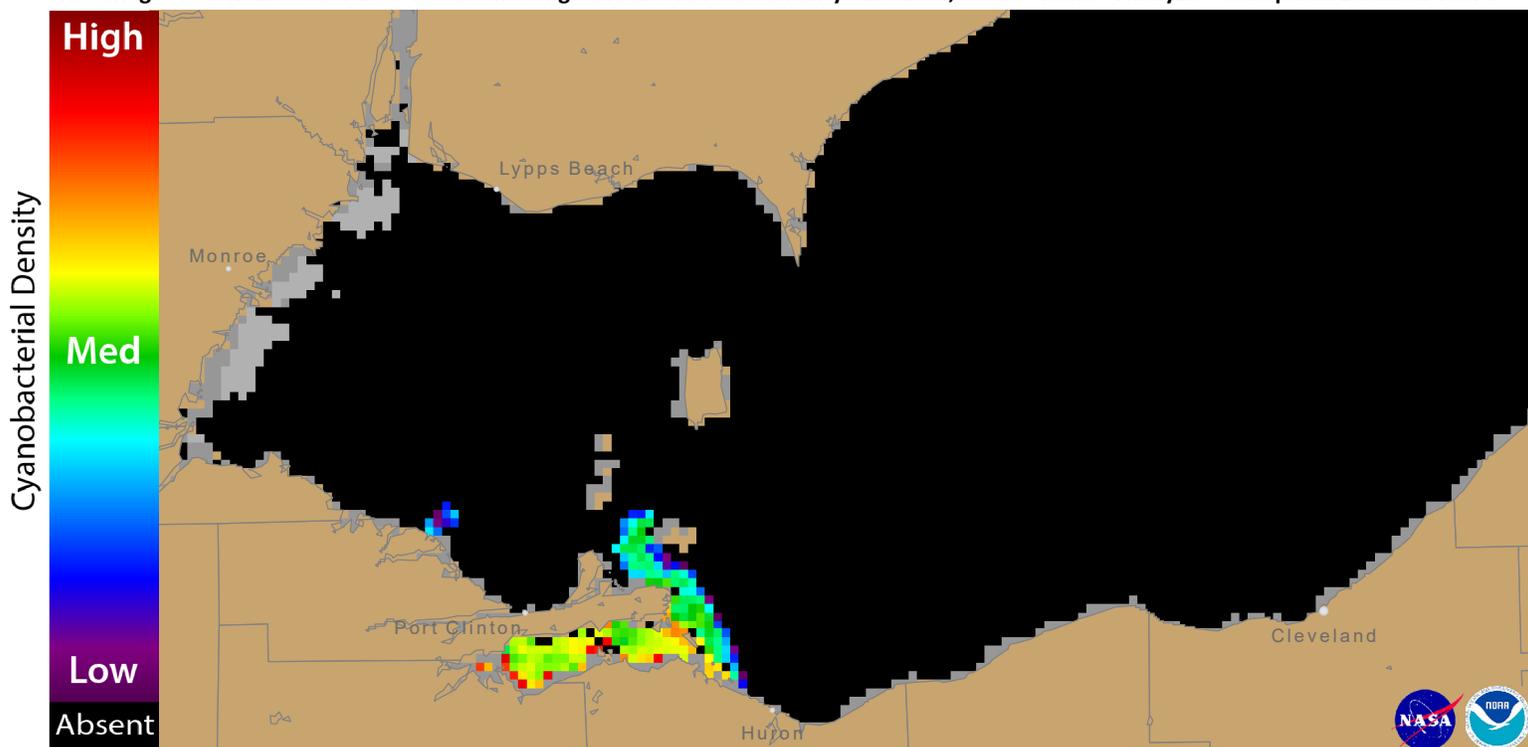
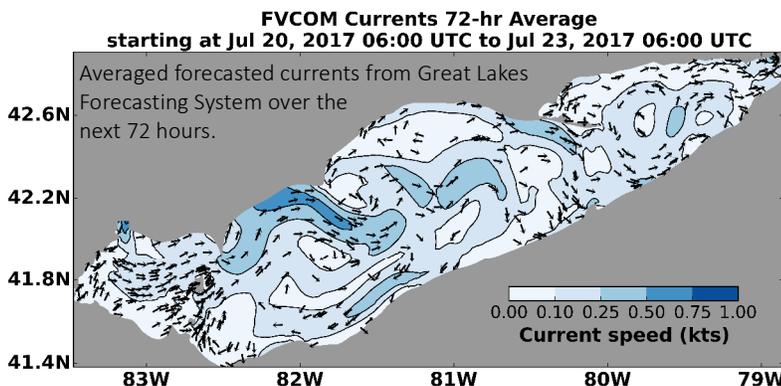
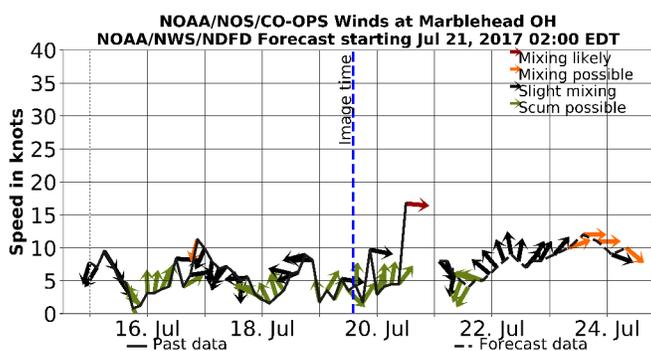


Figure 1. Cyanobacterial Index from NASA's MODIS-Aqua & Terra data collected 19 July, 2017 at 13:07 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



Wind speed and direction from Marbelhead, OH. Blooms mix through the water column at wind speeds greater than 15 knots (or 7.7 m/s).