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.

- Kavanaugh, Urízar

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 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