



# Lake Erie Harmful Algal Bloom Bulletin

17 July, 2017, Bulletin 02

Cyanobacteria is present in Lake Erie, generally at low concentrations. Some *Microcystis* is present in the Maumee Bay area. This is typical for this time of year. The unedited imagery (not shown) from 7/15 indicated a sediment plume extending from Maumee River to Maumee Bay; however the pixels were removed from the edited image (shown) since *Microcystis* could not be distinguished from the sediment. Measured toxin concentrations are below recreational thresholds throughout the bloom extent.

Forecast winds (5-10kn) today through Thursday (7/17-20) 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".

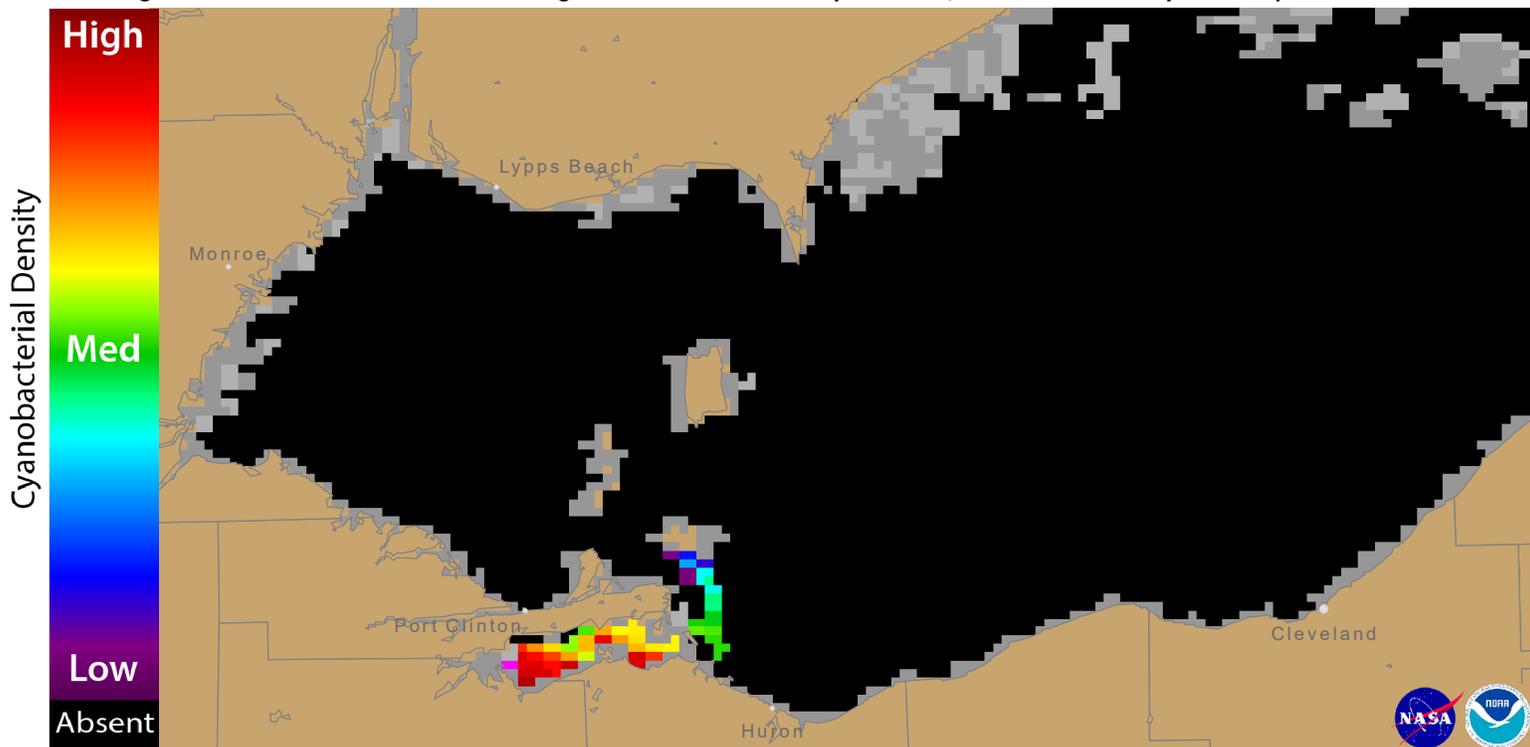
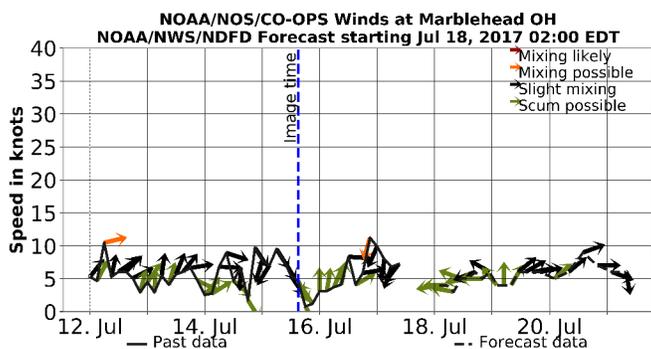


Figure 1. Cyanobacterial Index from NASA's MODIS-Aqua data collected 15 July, 2017 at 13:31 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



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).

