



# Lake Erie Harmful Algal Bloom Bulletin

02 July, 2018, Bulletin 04

The *Microcystis* cyanobacteria bloom west of West Sister Island, while still of relatively high concentration and area, has continued to decrease in toxicity. Scum areas remain a significant risk. Localized blooms with toxins have been found nearshore at several places in the Cleveland area. These are smaller than the scale of the satellite imagery. Unresolved sensor issues have caused portions of missing data near Maumee Bay and along the northern portion of the bloom.

Mild southwestern winds are expected throughout the week, increasing the likelihood of scum development in areas of moderate to high concentration. A slight eastern transport is likely through Thursday. The persistent bloom in Sandusky Bay continues. No other blooms are evident in the central and eastern basins.

Please check for updates on Ohio State Parks at Ohio EPA's site, <http://epa.ohio.gov/habalgae.aspx>. Keep your pets and yourself out of the water in areas where scum is forming.

-Dupuy, Stumpf

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

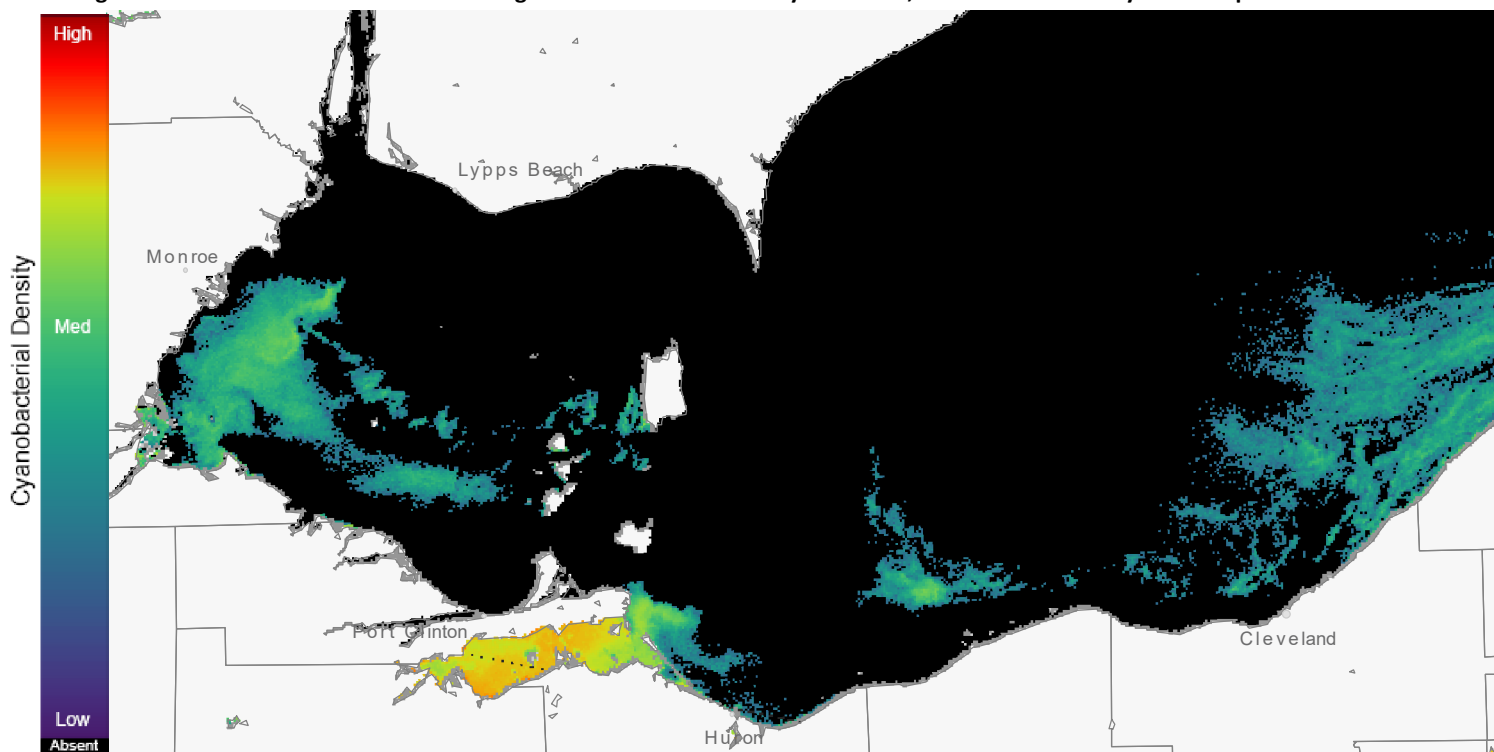


Figure 1. Cyanobacterial Index derived from modified Copernicus Sentinel 3a data collected (date) at (time). Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL

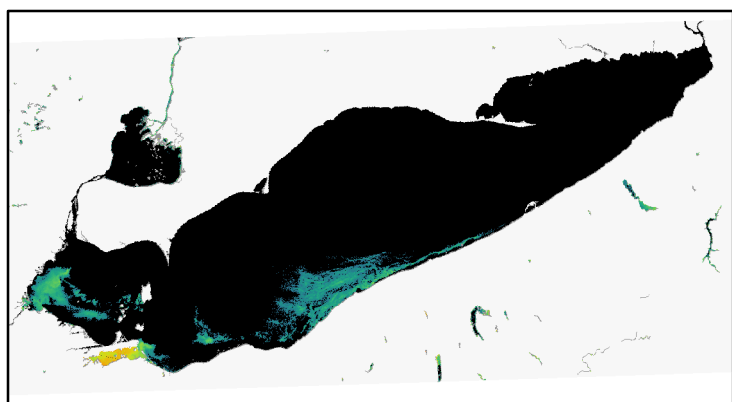


Figure 2. Cyanobacterial Index derived from modified Copernicus Sentinel 3a data collected (date) at (time).

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).