



Lake Erie Harmful Algal Bloom Bulletin

02 November, 2017, Bulletin 33

The *Microcystis* cyanobacteria bloom continues to decrease in concentration from previous levels. Persistent cloud cover prevents both a transport forecast and analysis of remaining localized patches previously visible in the western basin. Measured toxin concentrations are below recreational thresholds throughout the bloom extent. Forecast winds (10-20kn) today through Monday (11/2-11/6) will likely promote mixing of remaining *Microcystis*. Water temperatures have declined below 59°F (15°C) in the western basin which should continue to substantially decrease bloom concentrations through Monday.

Please check Ohio EPA's site on harmful algal blooms for safety information: <http://epa.ohio.gov/habalgae.aspx>. NOAA's GLERL provides additional HAB data: https://www.glerl.noaa.gov/res/HABs_and_Hypoxia. The persistent cyanobacteria bloom in Sandusky Bay continues. No other blooms are evident in the central or eastern basins.

—Urizar, Ludema

The images below are "GeoPDF". Please visit <https://go.usa.gov/xReTC> for instructions on viewing longitude and latitude.

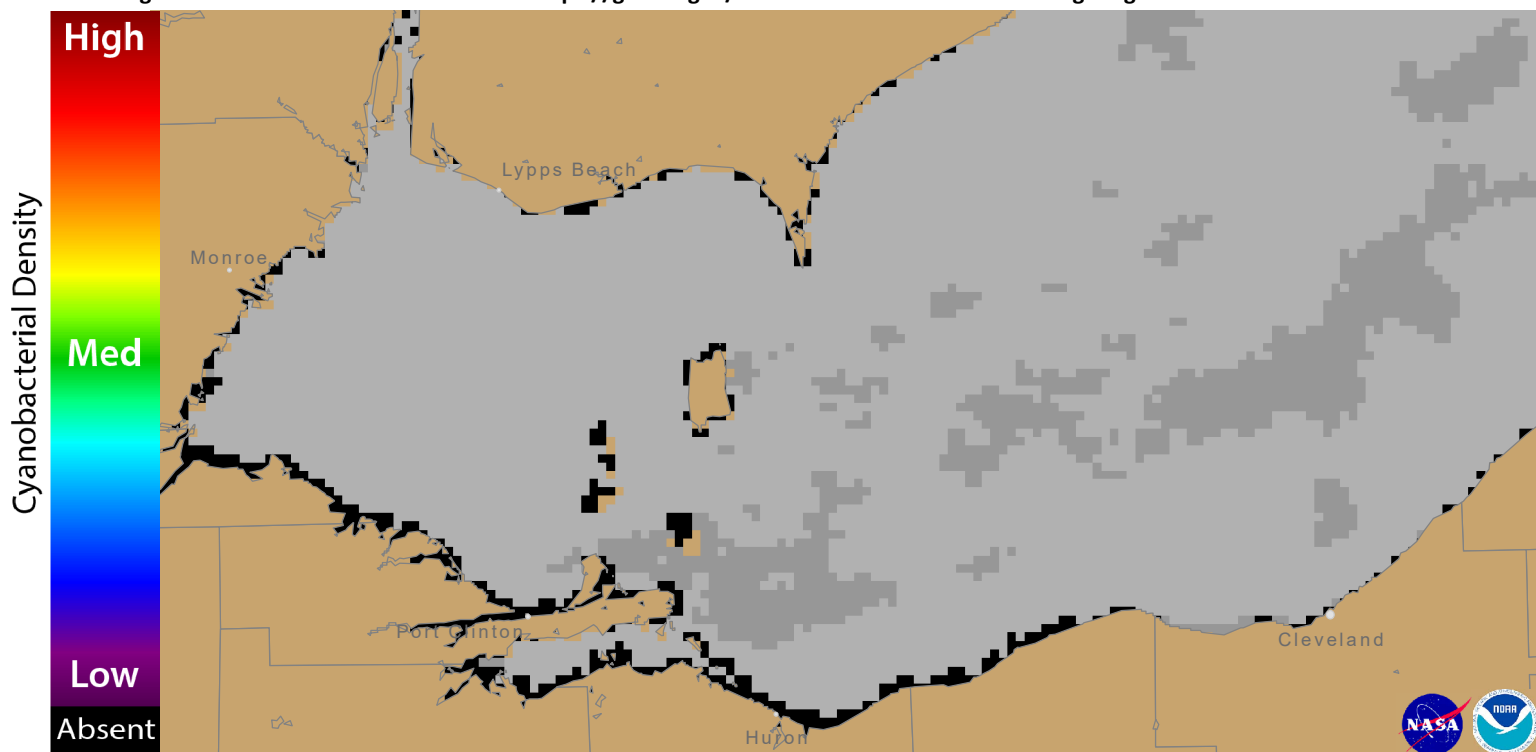
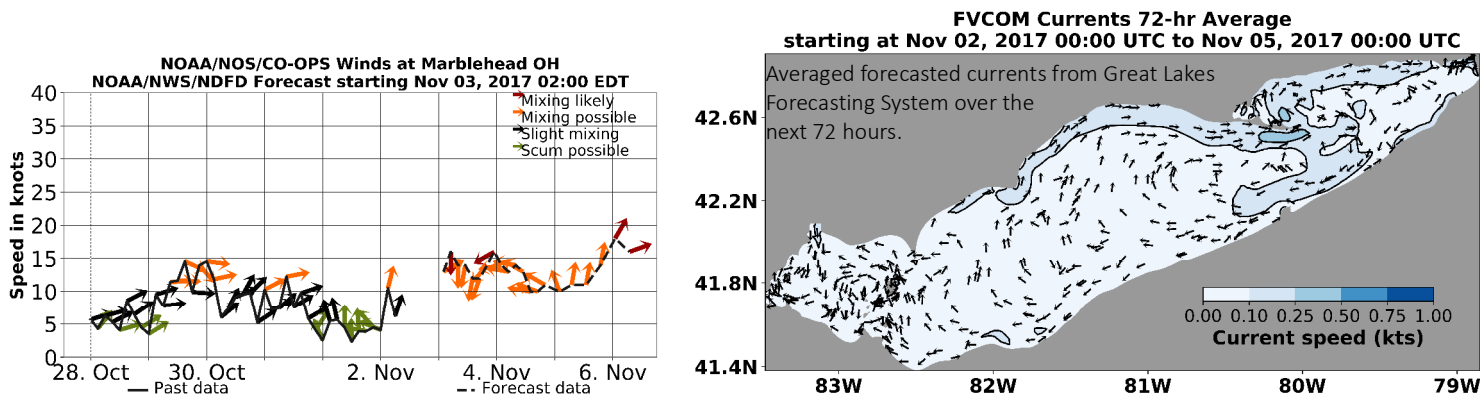


Figure 1. Cyanobacterial Index from NASA MODIS-Terra data collected 01 November, 2017 at 11:18 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



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).