



Experimental Lake Erie Harmful Algal Bloom Bulletin

19 September, 2016, Bulletin 21

The cyanobacterial (*Microcystis*) bloom continues in Maumee Bay and north of the islands. In Maumee Bay, the bloom has decreased to low and moderate concentrations with toxin present only at very low concentrations. NW of the islands, the bloom is present at varying concentrations depending on wind speed. Under calm winds on Sunday, some scum areas appeared northwest of the Bass Islands. During moderate winds (> 6 knots) the bloom decreased to low concentrations at the surface.

Light to moderate winds this week may allow the bloom to be more visible at the surface. If winds drop to below 5 knots, some patches of scum formation are possible northwest of the islands and in Maumee Bay. The bloom is expected to continue to remain in the center of the basin away from land.

The persistent cyanobacteria bloom continues in Sandusky Bay. No other blooms have been detected further east in the central basin or the eastern basin.

Keep yourself and your pets out of scums. Please check Ohio EPA's site on harmful algal blooms for safety information.

<http://epa.ohio.gov/habalgae.aspx> Be careful boating, thunderstorms are a greater risk. --Stumpf, Dupuy

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

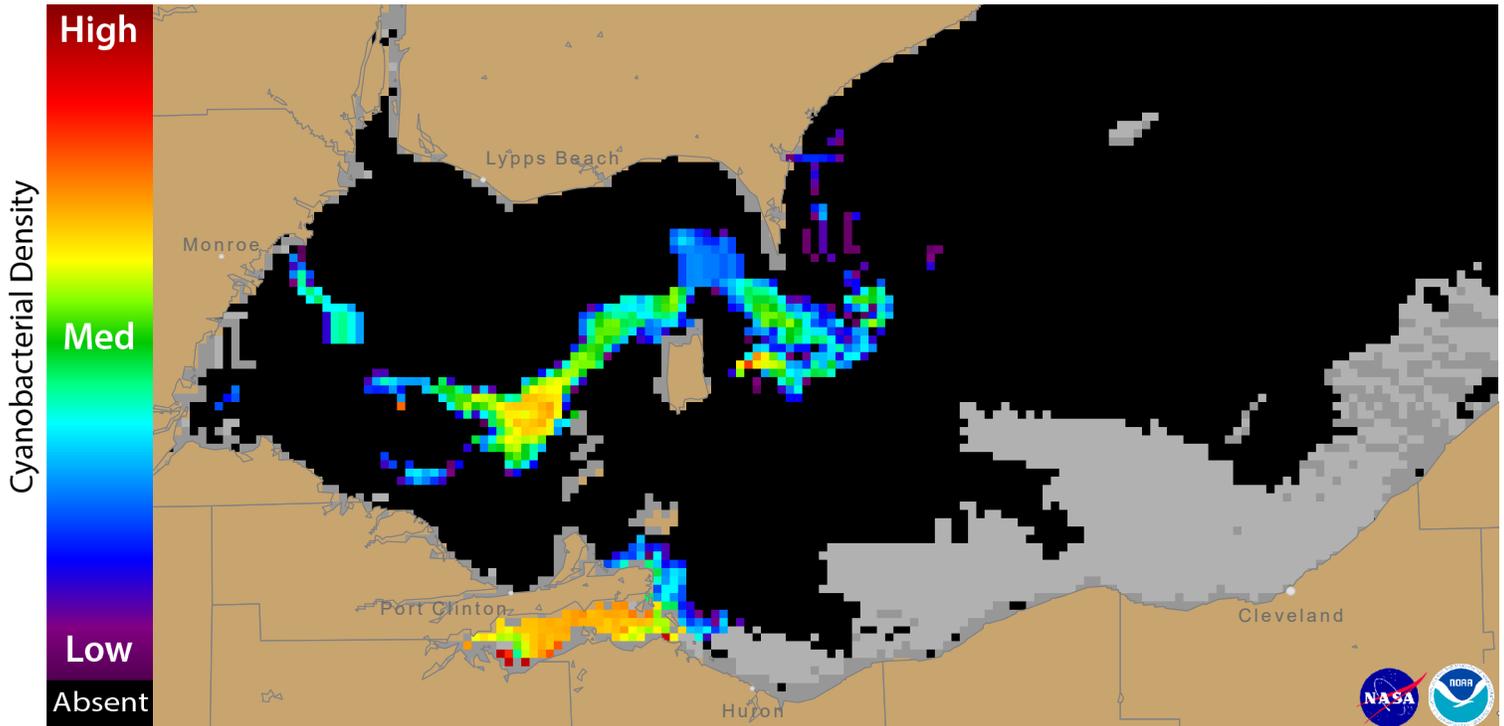


Figure 1. Cyanobacterial Index from NASA's MODIS-Aqua data collected 18 September, 2016 at 13:06 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.

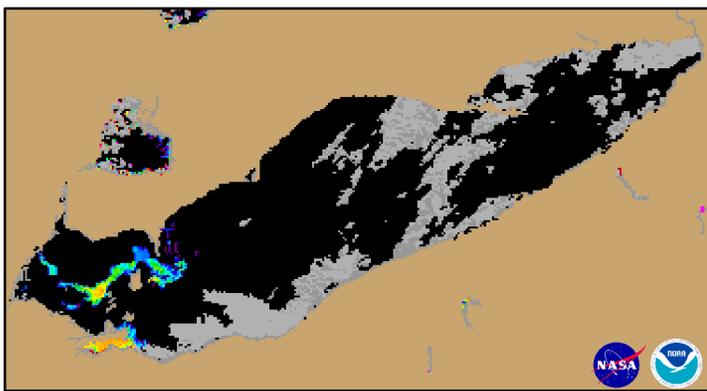
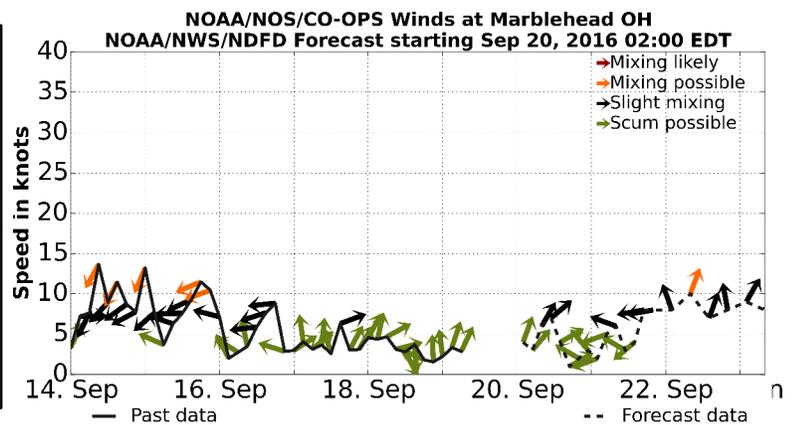


Figure 2. Cyanobacterial Index from NASA's MODIS-Aqua data collected 18 September, 2016 at 13:06.



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 to this bulletin, go to: <http://coastalscience.noaa.gov/research/habs/forecasting>

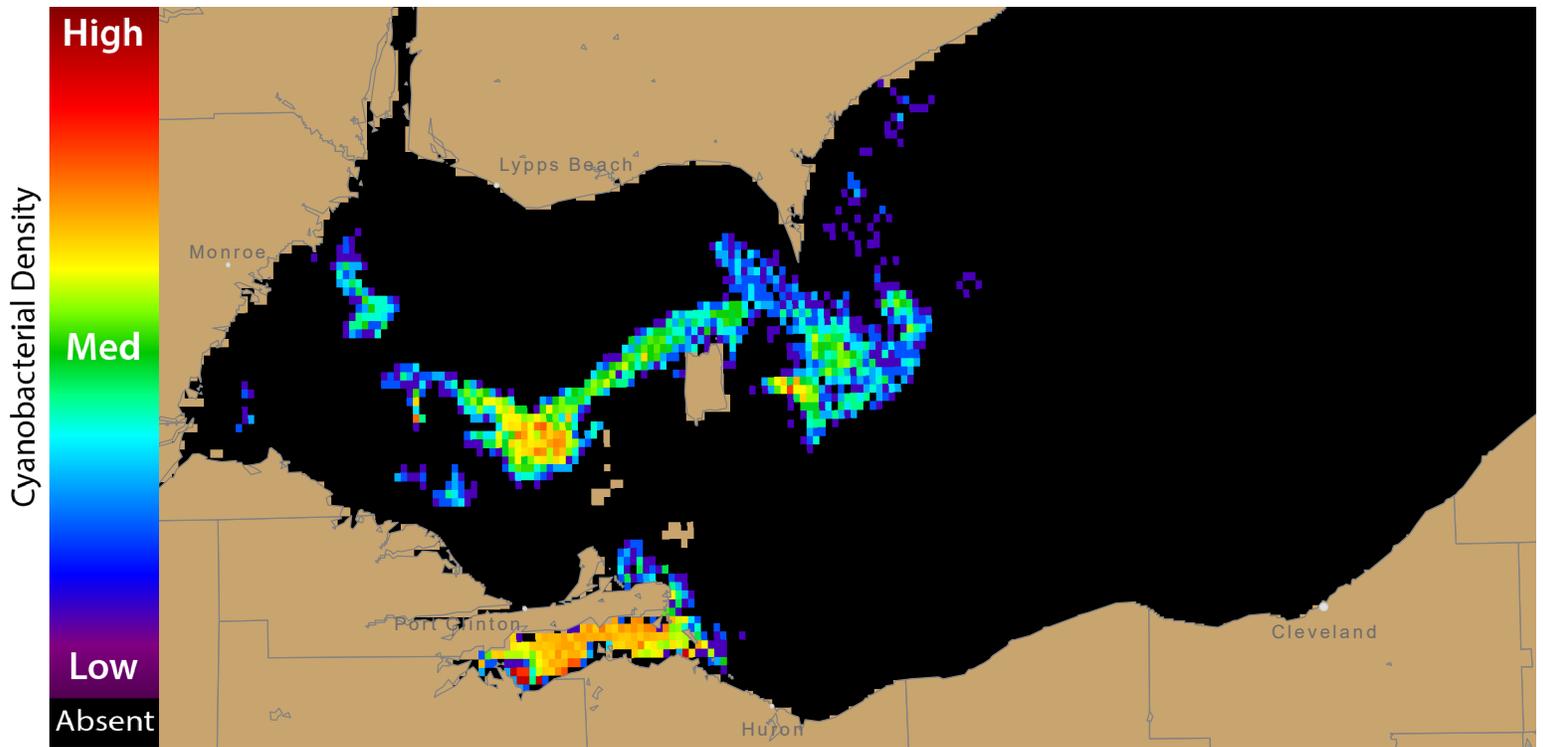


Figure 3. Nowcast position of bloom for 19 September, 2016 using GLFS modelled currents to move the bloom from the 18 September, 2016

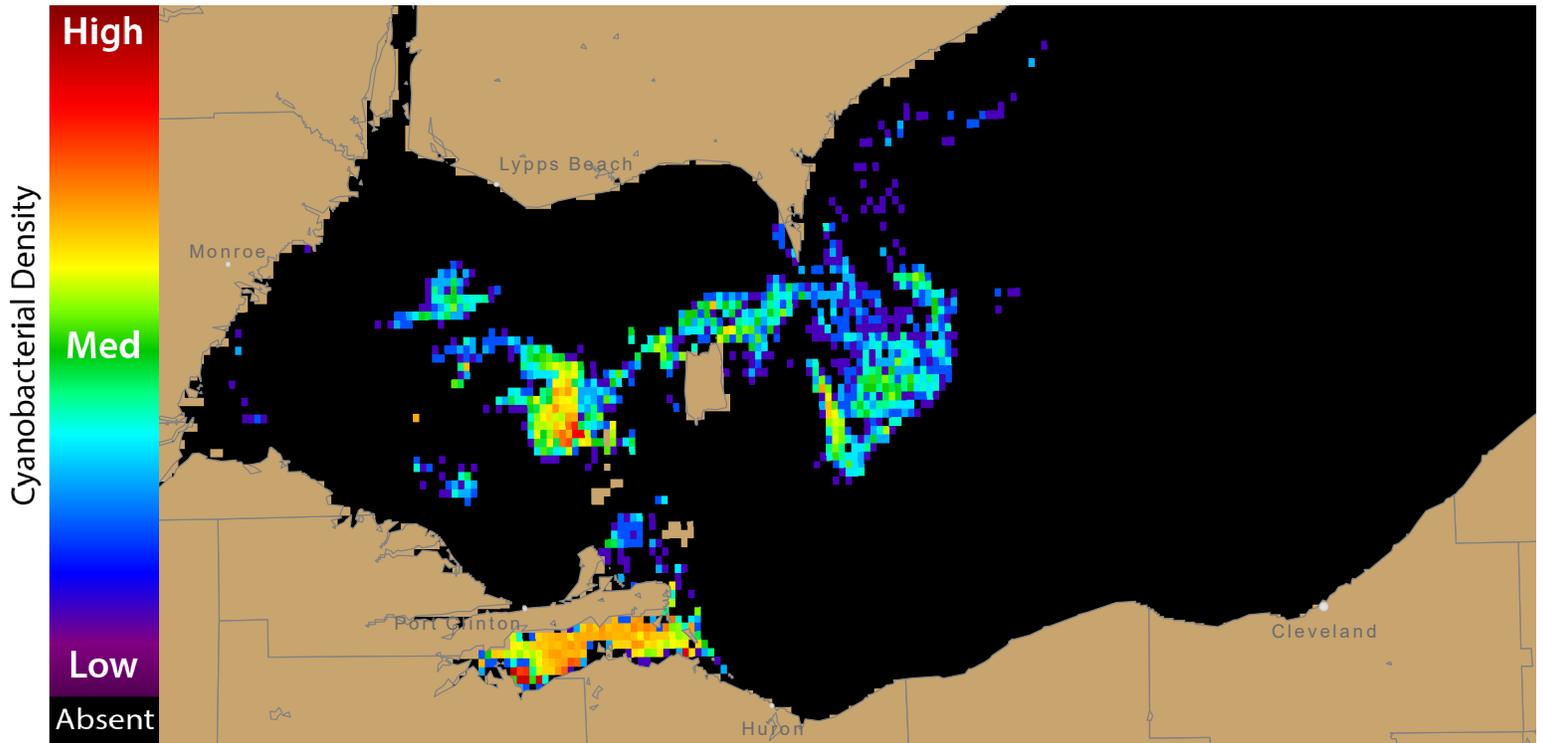
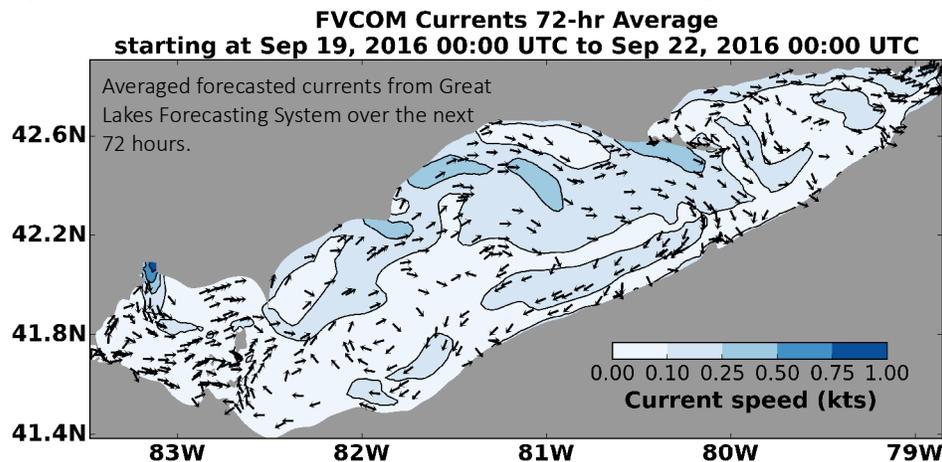


Figure 4. Forecast position of bloom for 22 September, 2016 using GLFS modelled currents to move the bloom from the 18 September, 2016



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