Experimental Lake Erie Harmful Algal Bloom Bulletin

15 September, 2016, Bulletin 20

The cyanobacterial (*Microcystis*) bloom has continued to diminish. Maumee Bay and an area northwest of the islands have cyanobacteria present. Maumee Bay continues to have moderate concentrations of bloom with presence of some, very low risk, toxin concentration. NW of the islands, the bloom is present at low concentrations during calm winds, and not detectable with mild to moderate winds (> 6 knots).

Mild winds on Friday may allow the bloom to be more visible at the surface in Maumee Bay, however there is only a slight chance of scum formation. For today and the weekend, moderate winds will continue the current conditions of extremely low to non-detectable bloom concentrations over the rest of the western basin.

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

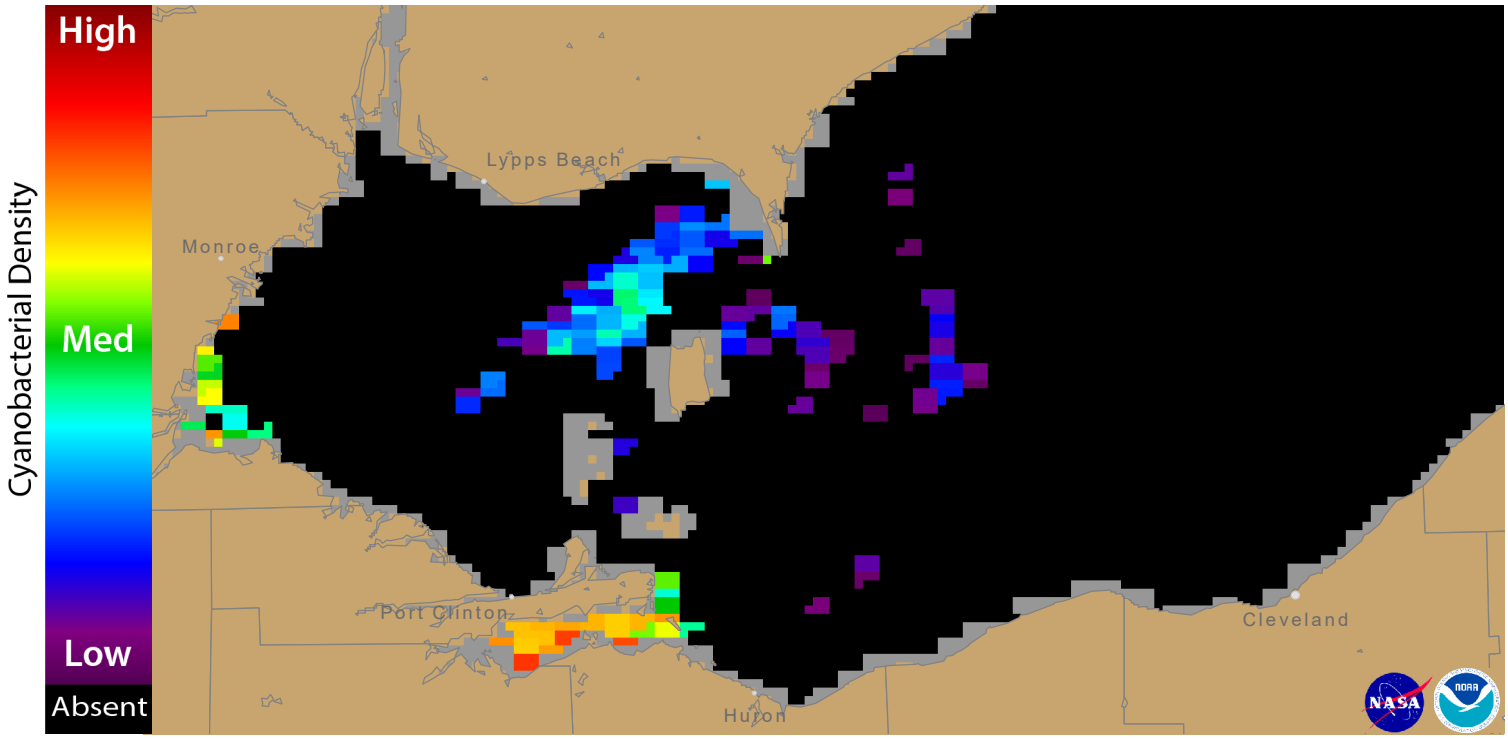


Figure 1. Cyanobacterial Index from NASA's MODIS-Aqua data collected 12 September, 2016 at 13:43 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.

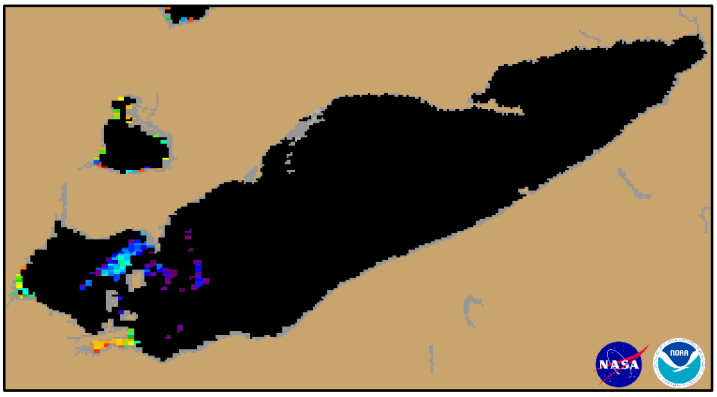
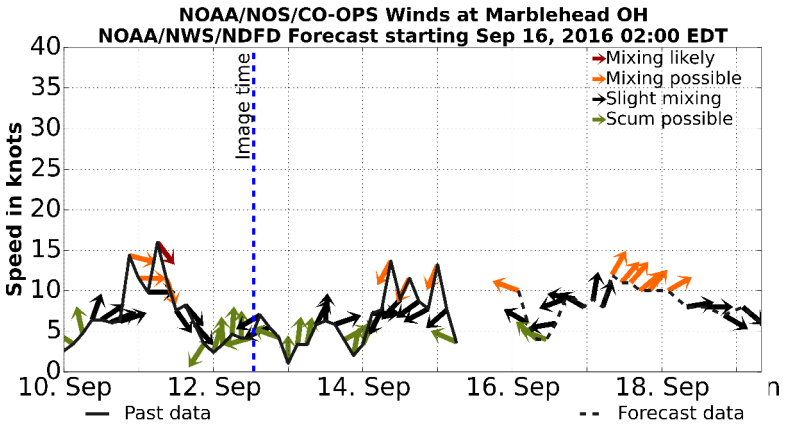


Figure 2. Cyanobacterial Index from NASA's MODIS-Aqua data collected 12 September, 2016 at 13:43.



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

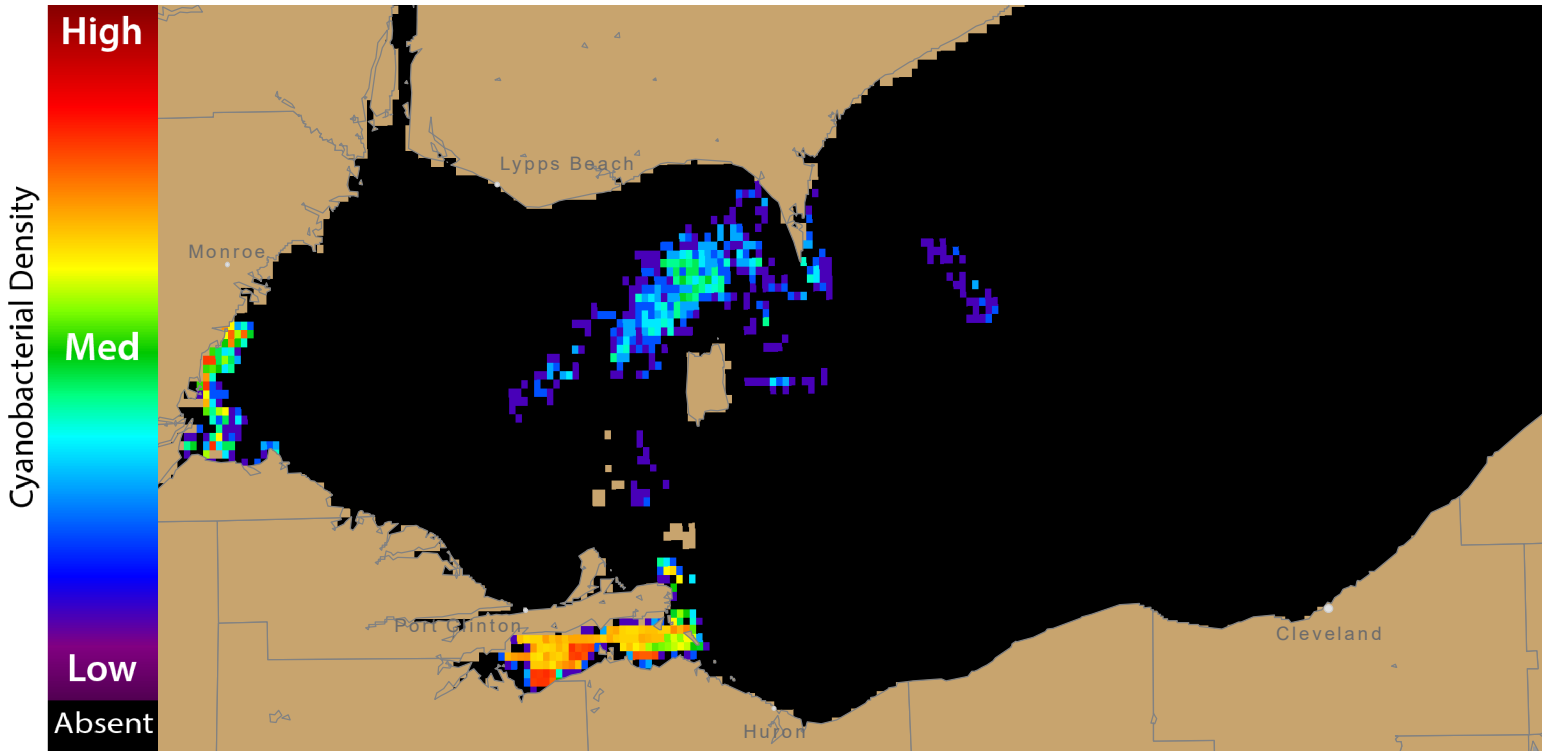


Figure 3. Nowcast position of bloom for 15 September, 2016 using GLFS modelled currents to move the bloom from the 12 September, 2016

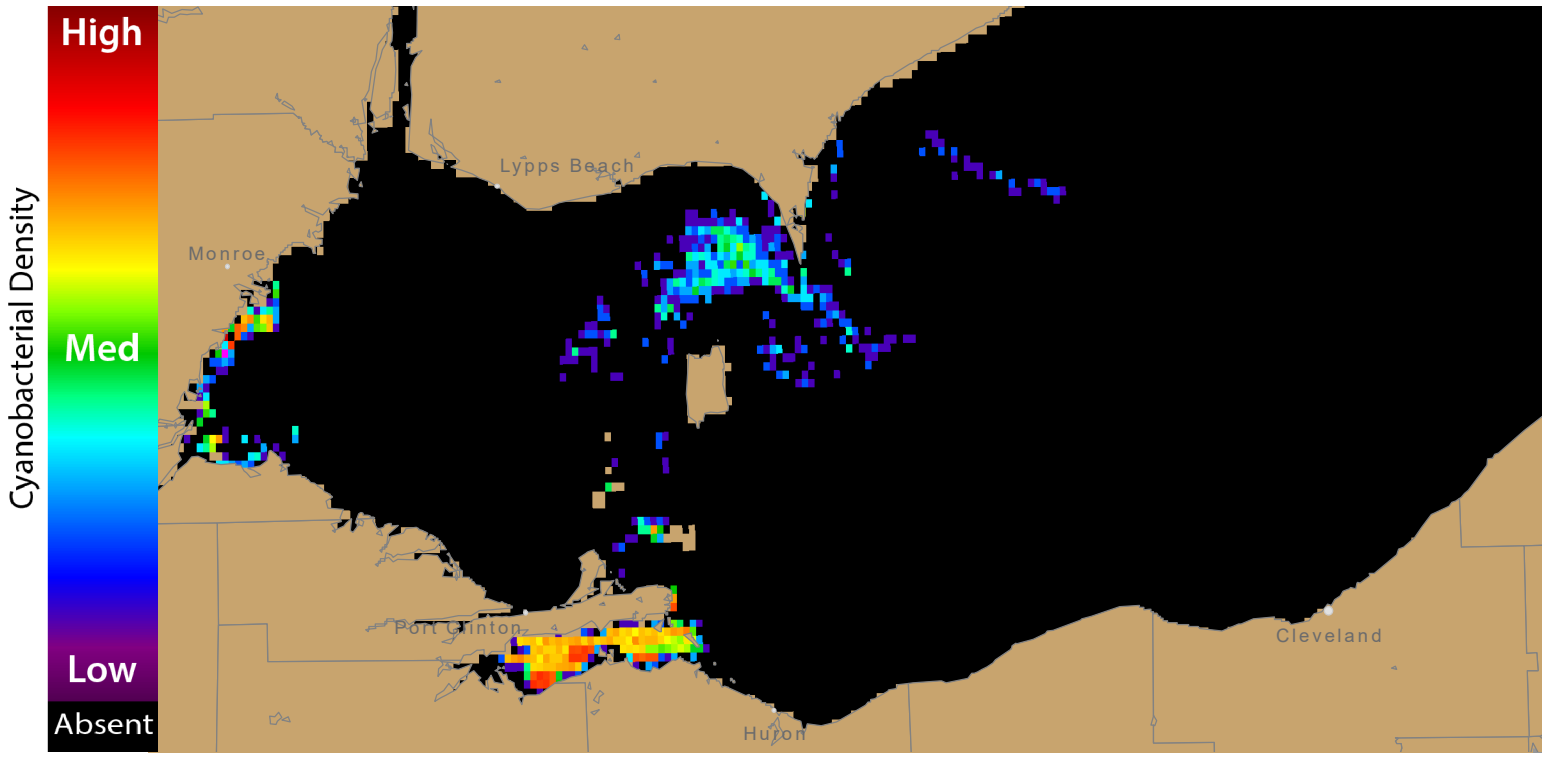
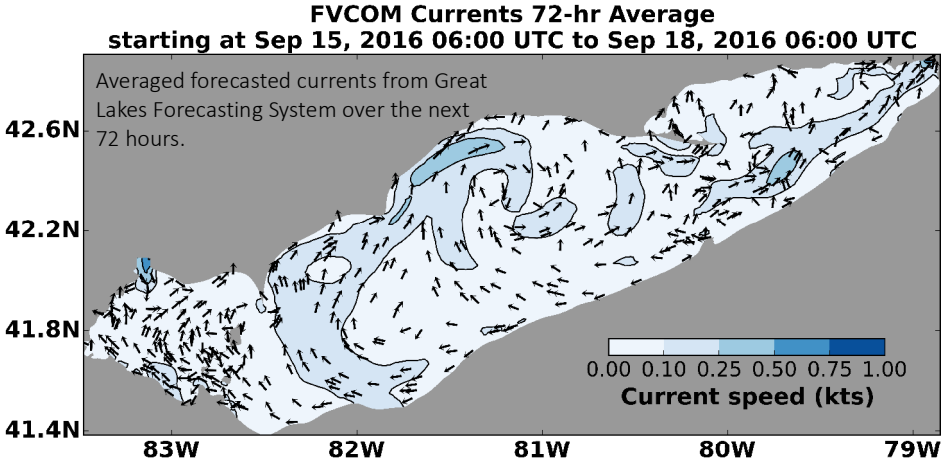


Figure 4. Forecast position of bloom for 18 September, 2016 using GLFS modelled currents to move the bloom from the 12 September, 2016



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