Experimental Lake Erie Harmful Algal Bloom Bulletin

17 October, 2016, Bulletin 28

Imagery on Friday and Saturday during mild winds did not show evidence of cyanobacteria (*Microcystis*) in Lake Erie. Some cyanobacteria was found early last week, however it had very low toxin levels.

Water temperatures have continued to drop, now about below 65 ° F (18° C). Residual *Microcystis* may be possible, but will be rarely visible owing to winds this week (strong through Tuesday, and moderate later in the week). Bulletins will continue until *Microcystis* is not apparent in satellite or field reports.

The persistent cyanobacteria bloom continues in Sandusky Bay. Please check Ohio EPA's site on harmful algal blooms for safety information. http://epa.ohio.gov/habalgae.aspx With strong winds, be careful boating. --Stumpf, Dupuy.

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

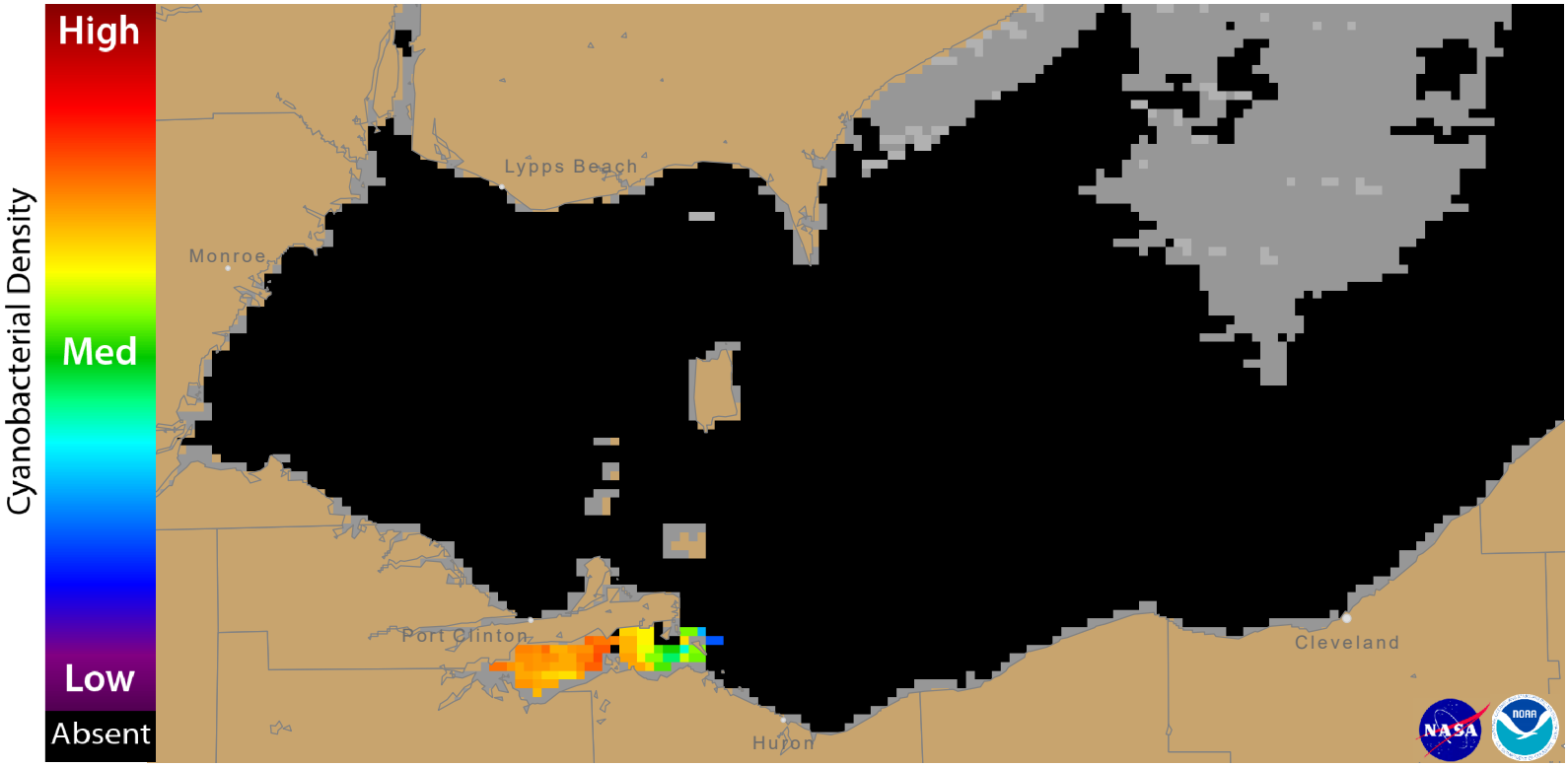
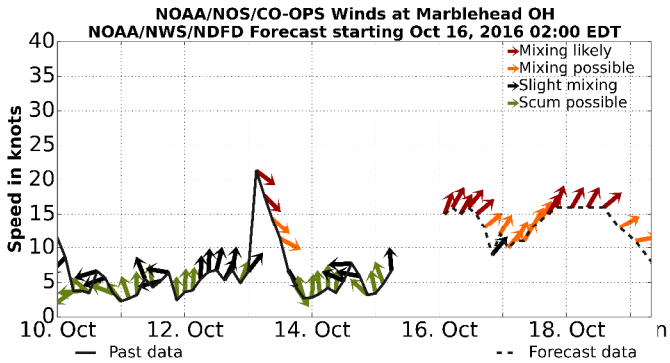
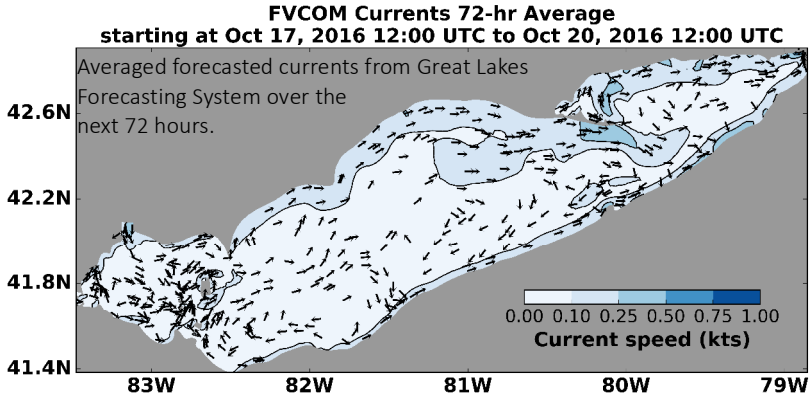


Figure 1. Cyanobacterial Index from NASA's MODIS-Terra data collected 14 October, 2016 at 12:01 EDT. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.



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).



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