



# Experimental Lake Erie Harmful Algal Bloom Bulletin

National Centers for Coastal Ocean Science and Great Lakes Environmental Research Laboratory

25 July 2013; Bulletin 09

The bloom has not reformed in the central basin. Wind speeds exceeded 15 knots on 7/24 which causes mixing of the water column. Recent satellite imagery has been patchy, but shows no indication that the bloom has reformed.

No increases in microcystis were reported by field sampling (U.Toledo and NOAA/GLERL).

- Dupuy, Stumpf

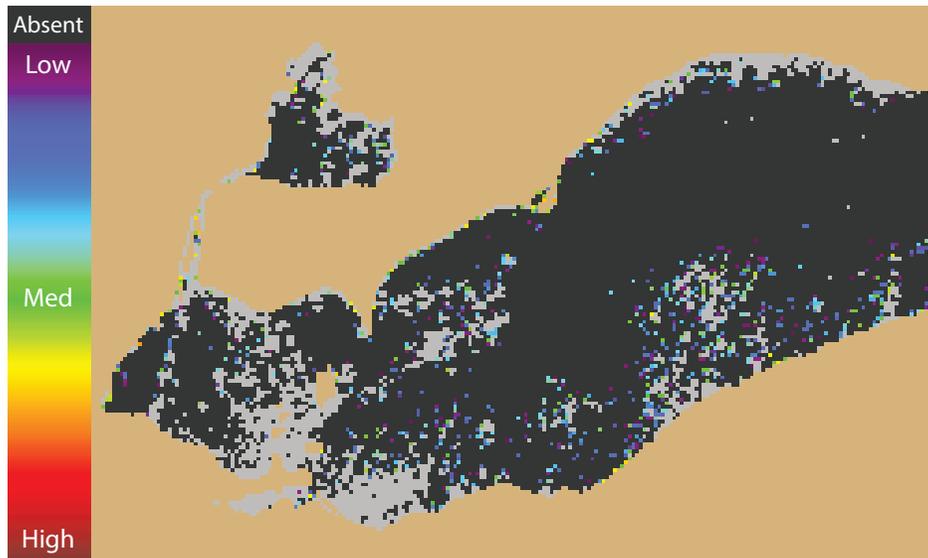
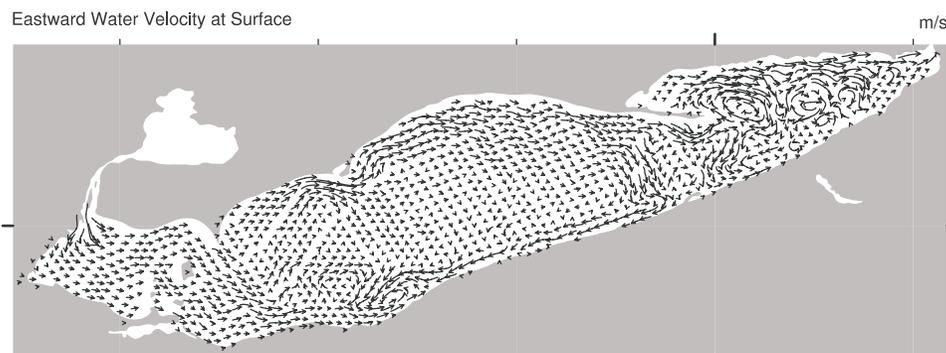
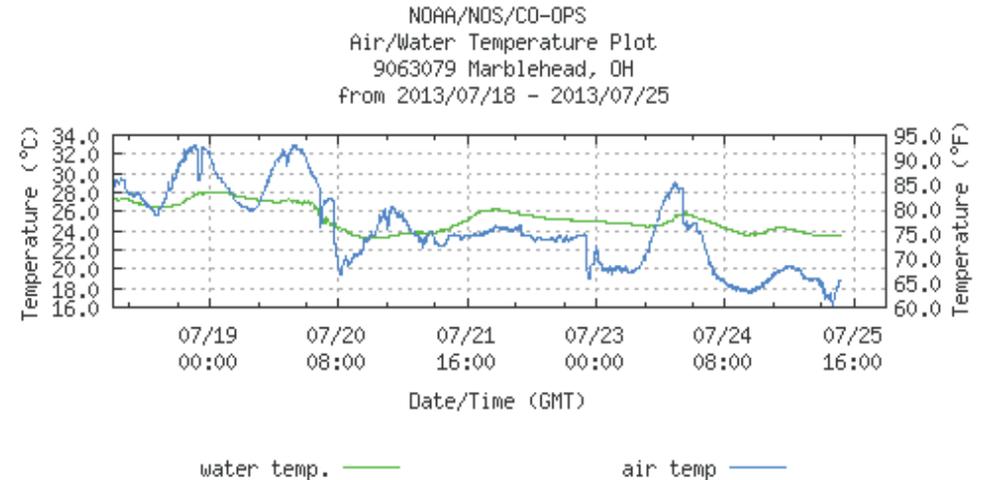


Figure 1. MODIS Cyanobacterial Index from 24 July 2013. Grey indicates clouds or missing data. Black represents no cyanobacteria detected. Colored pixels indicate the presence of cyanobacteria. Cooler colors (blue and purple) indicate low concentrations and warmer colors (red, orange, and yellow) indicate high concentrations. The estimated threshold for cyanobacteria detection is 35,000 cells/mL.

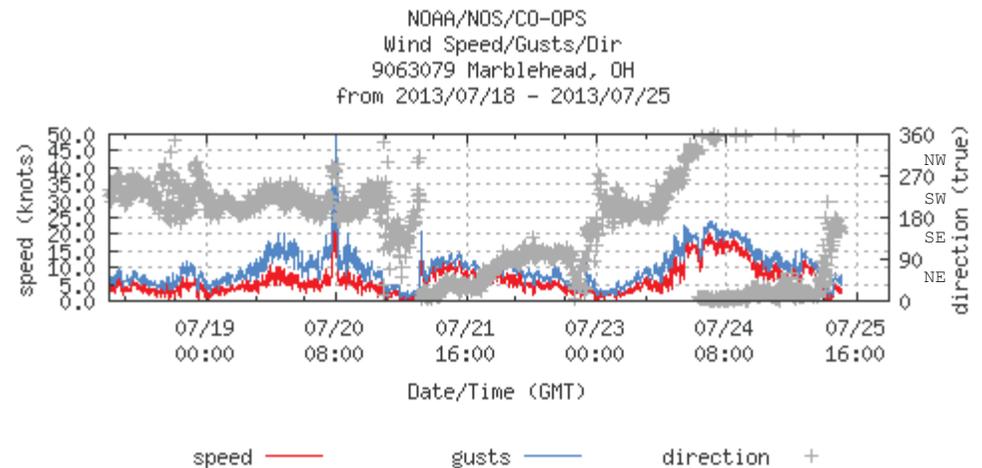
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Averaged forecasted currents from Great Lakes Coastal Forecasting System over the next 72 hours.



Air and Water Temperature from Marblehead, OH. From: NOAA/Center for Operational Oceanographic Products and Services (CO-OPS).



Wind Speed, Gusts and Direction from Marblehead, OH. From: NOAA/Center for Operational Oceanographic Products and Services (CO-OPS). Note: 1 knot = 0.51444 m/s. Blooms mix through the water column at wind speeds greater than 7.7 m/sec (~ 15 knots).