



# Experimental Lake Erie Harmful Algal Bloom Bulletin

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

05 June 2014, Bulletin 01

There is no reported Harmful Algal Bloom at this time. It is unlikely that one will develop within the next week. The appearance of a mild bloom along the southern shore is the result of an artifact of the sensor. The particle tracking forecast will return when there is a feature to forecast in the imagery.

- Dupuy, Stumpf

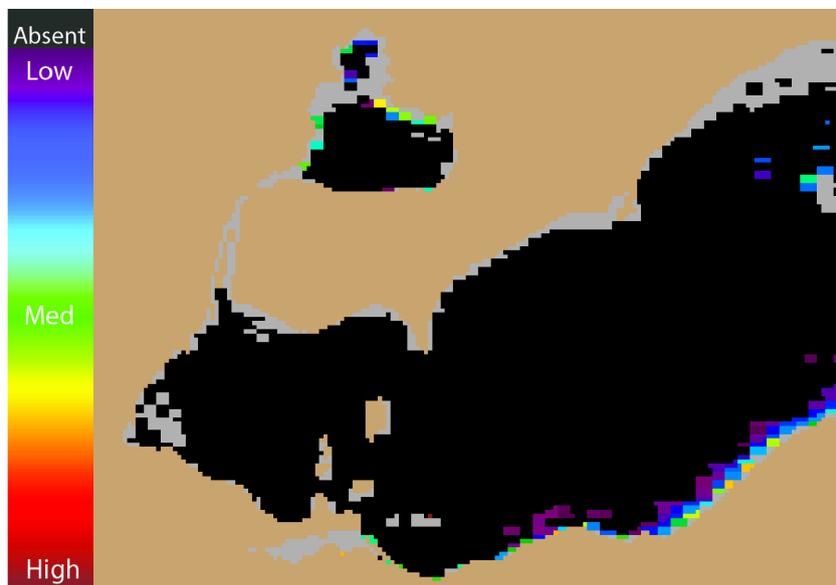
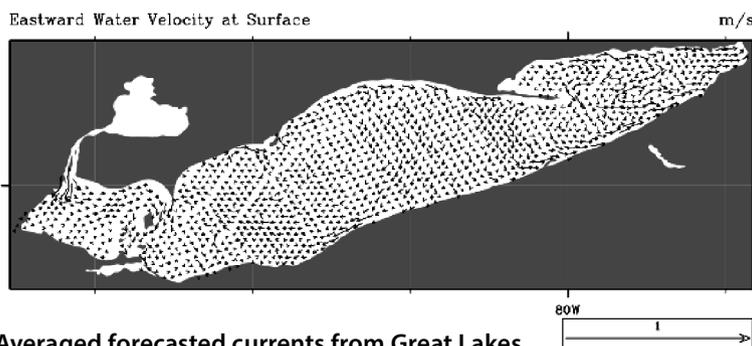
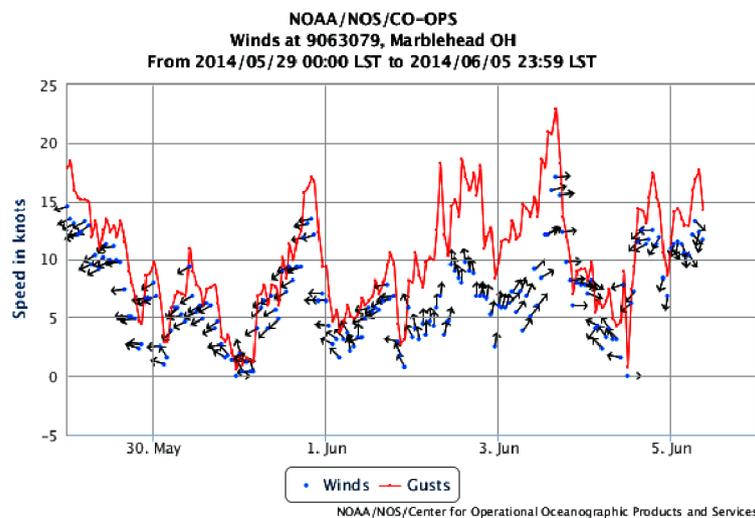


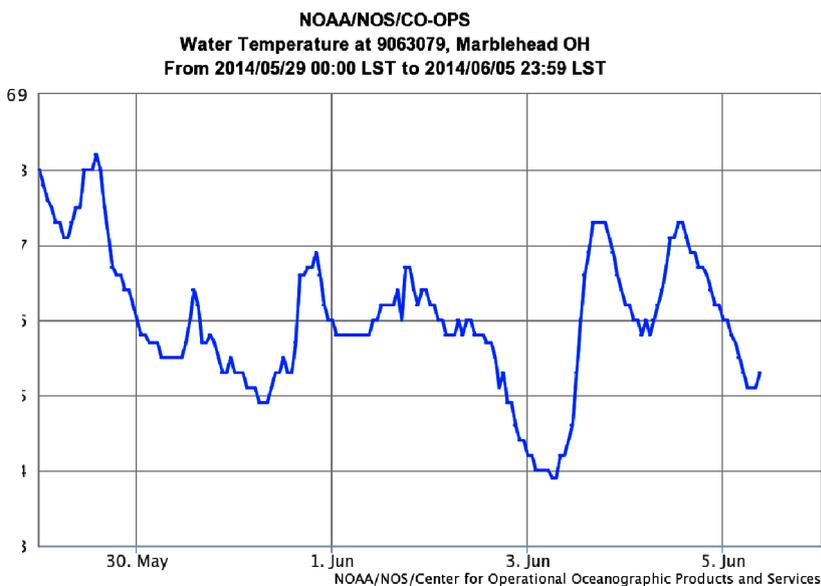
Figure 1. MODIS Cyanobacterial Index from 03 June 2014. Grey indicates clouds or missing data. Black represents no cyanobacteria detected. Colored pixels indicate the presence of cyanobacteria. Cooler colors (blue and purple) indicate low concentrations and warmer colors (red, orange, and yellow) indicate high concentrations. The estimated threshold for cyanobacteria detection is 35,000 cells/mL.



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



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).



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