



## Experimental Lake Erie Harmful Algal Bloom Bulletin

2010-012

19 August 2010

National Ocean Service

Great Lakes Environmental Research Laboratory

Last bulletin: 12 August 2010

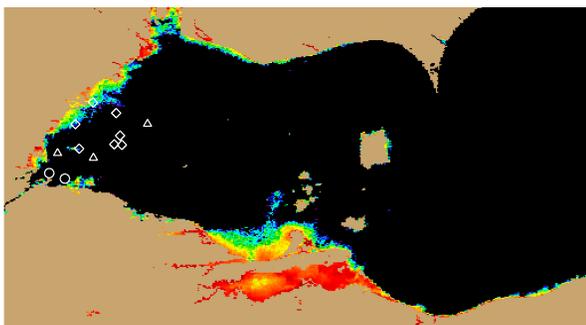


Figure 1. MERIS image from the European Space Agency. Imagery shows the spectral shape at 681 nm from August 18, where colored pixels indicate the likelihood of the last known position of the *Microcystis* spp. bloom (with red being the highest concentration). *Microcystis* spp. abundance data from August 16 shown as white squares (very high), circles (high), diamonds (medium), triangles (low), + (very low) and X (not present).

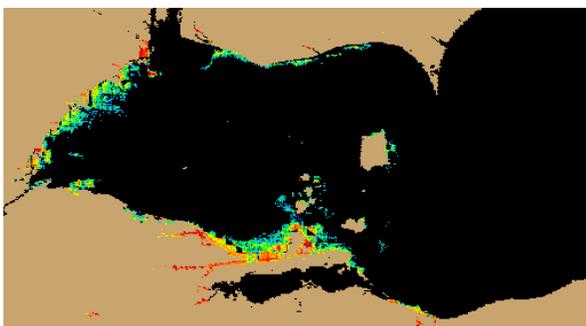


Figure 2. Nowcast position of *Microcystis* spp. bloom for August 19 using GLCFS modeled currents to move the bloom from the August 18 image.

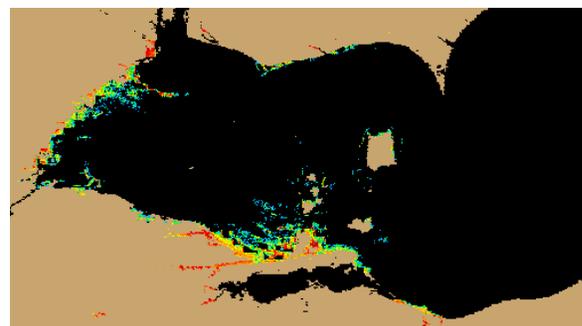
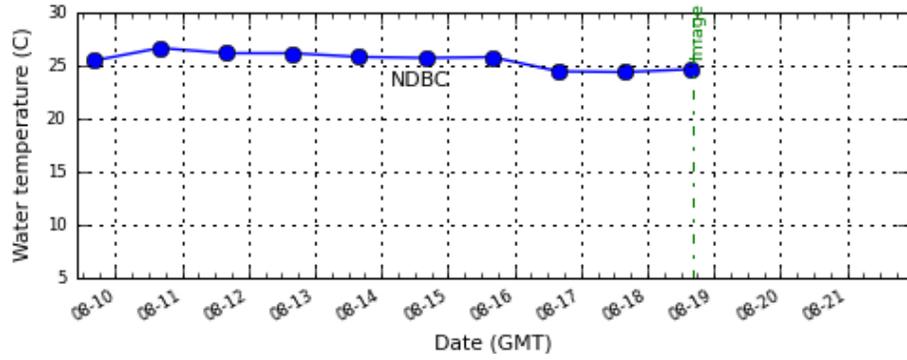


Figure 3. Forecast position of *Microcystis* spp. for August 22 using GLCFS modeled currents to move the bloom from August 18 image.

Please note:

- MERIS imagery was distributed by the NOAA CoastWatch Program and provided by the European Space Agency
- [http://www.glerl.noaa.gov/res/Centers/HABS/lake\\_erie\\_hab/lake\\_erie\\_hab.html](http://www.glerl.noaa.gov/res/Centers/HABS/lake_erie_hab/lake_erie_hab.html)
- Cell counts were collected by the Great Lakes Environmental Research Laboratory
- The wind data is available through the National Data Buoy Center and the National Weather Service
- Modeled currents were provided through the Great Lakes Coastal Forecasting System

Average water temperature at 45005 - W Erie 28NM Northwest of Clevelan



Average wind stress at THLO1 - Toledo Light No. 2

