



Experimental Lake Erie Harmful Algal Bloom Bulletin

2011-003

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National Ocean Service

Great Lakes Environmental Research Laboratory

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Figure 1. MERIS image from the European Space Agency. Imagery shows the spectral shape at 681 nm from June 22, 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 shown as white squares (very high), circles (high), diamonds (medium), triangles (low) , + (very low) and X (not present).

Conditions: There are no harmful algal blooms reported at this time. No impacts are expected.

Analysis: Satellite imagery has been unavailable over the western basin of Lake Erie for over 2 weeks. Therefore, a forecast is impossible at this time. However, sampling around the Bass Islands and Sandusky Bay on Tuesday (6/21/2011) did not indicate the presence of a *Microcystis* bloom at this time. Phytoplankton samples appeared to be dominated by diatoms. Temperatures have increased to approximately 20 degrees C and are conducive for cyanobacteria blooms.

-Tomlinson, Briggs

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
- 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

