Experimental
Lake Erie Harmful Algal Bloom Bulletin
2011-002
16 June 2011
National Ocean Service
Great Lakes Environmental Research Laboratory
Last bulletin: 09 June 2011

Figure 1. MERIS image from the European Space Agency. Imagery shows the spectral shape at 681 nm from June 07, 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).

Figure 2. Nowcast position of Microcystis spp. bloom for June 16 using GLCFS modeled currents to move the bloom from the June 07 image.

Figure 3. Forecast position of Microcystis spp. for June 19 using GLCFS modeled currents to move the bloom from June 07 image.

Please note:
- MERIS imagery was distributed by the NOAA CoastWatch Program and provided by the European Space Agency
- 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

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

Analysis: Satellite imagery has been marginal over the western basin of Lake Erie. Imagery used is the same as last week’s bulletin accompanied by a nine day nowcast. Additionally, there are no features in the imagery to suggest a cyanobacterial bloom. Water temperatures are still low, as they increase the chances of cyanobacterial growth also increase.

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