Experimental
Lake Erie Harmful Algal Bloom Bulletin
2011-004
30 June 2011
National Ocean Service
Great Lakes Environmental Research Laboratory
Last bulletin: 23 June 2011

Figure 1. MERIS image from the European Space Agency. Imagery shows the spectral shape at 681 nm from June 29, 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 30 using GLCFS modeled currents to move the bloom from the June 29 image.

Figure 3. Forecast position of *Microcystis* spp. for July 03 using GLCFS modeled currents to move the bloom from June 29 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:** There have been no reports of a *Microcystis* bloom at this time. Water temperatures are continuing to increase and providing conditions conducive for a cyanobacterial bloom. Imagery shows what might be the beginning of an unidentified bloom in Maumee Bay. This unidentified feature is forecasted to undergo an eastward transport through the weekend.

-Briggs, Wynne