Experimental Lake Erie Harmful Algal Bloom Bulletin
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National Ocean Service
Great Lakes Environmental Research Laboratory
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Conditions: The cyanobacterial bloom in western Lake Erie is dissipating.

Analysis: Imagery indicates that the bloom is rapidly dissipating in western Lake Erie. Temperature plots show decreasing temperatures and forecasted consistent temperatures below 15 C indicate the demise of the bloom within the next week.

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Figure 1. MERIS image from the European Space Agency. Imagery shows the spectral shape at 681 nm from October 12, 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 October 07 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 October 14 using GLCFS modeled currents to move the bloom from the October 12 image.

Figure 3. Forecast position of Microcystis spp. for October 17 using GLCFS modeled currents to move the bloom from October 12 image.