Analysis
The *Microcystis* cyanobacteria bloom continues in the western basin of Lake Erie. Observed winds (9/14-15) caused mixing that continues to reduce surface concentrations. In recent satellite imagery (9/14), the *Microcystis* bloom is detectable in Maumee Bay, in patches along Michigan coast, along the Ohio coast near the Marblehead Peninsula, and in low concentrations near Pelee Island. Measured toxin concentrations are below the detection limit in most of the sampling locations, and below the recreational threshold throughout the bloom extent. The persistent cyanobacteria bloom in Sandusky Bay continues.

Forecasts
Winds (5-12 kn) forecast Wednesday and Thursday (9/18-19) will promote mixing and westward transport of surface *Microcystis* concentrations. -Davis, Keeney

Additional Resources
To find a safe place for recreation, visit the Ohio DOH "BeachGuard" site: http://publicapps.odh.ohio.gov/beachguardpublic/
Ohio EPA's site on harmful algal blooms: http://epa.ohio.gov/HAB-Algae
NOAA's GLERL provides additional HAB data here: http://www.glerl.noaa.gov/res/HABs_and_Hypoxia

For more information and to subscribe to this bulletin, go to: https://tidesandcurrents.noaa.gov/hab/lakeerie.html
Figure 3. Nowcast position of bloom for 16 September, 2019 using LEOFS modelled currents to move the bloom from the 14 September.

Figure 4. Forecast position of bloom for 19 September, 2019 using LEOFS modelled currents to move the bloom from the 14 September.

For more information and to subscribe, please visit the NOAA HAB Forecast page:
https://tidesandcurrents.noaa.gov/hab/lakeerie.html