Lake Erie Harmful Algal Bloom Bulletin
09 September, 2019, Bulletin 21

Analysis
The *Microcystis* cyanobacteria bloom continues in the western basin of Lake Erie. Recent satellite imagery (9/7) is obscured by clouds over most of the western basin, but shows concentrations in Maumee Bay. Sentinel imagery from 9/6 (not shown) shows the bloom extending east along the Ohio Coast and offshore of Pelee Island up to 20 miles. Winds observed over the weekend (9/7-8) promoted slight mixing of surface bloom concentrations. Toxin concentrations are detectable but have decreased below the recreational threshold throughout all sampling sites. *Keep pets and yourself out of the water in areas where scum is forming.* The persistent cyanobacteria bloom in Sandusky Bay continues. No other blooms are present in Lake Erie.

Forecasts
Winds (5-11 kn) forecast today through Thursday (9/9-12) will promote mixing and net northeastward transport towards the central basin of surface *Microcystis*. -Jima, Davis

Additional Resources
To find a safe place for recreation, visit the Ohio DOH "BeachGuard" site: [http://publicapps.odh.ohio.gov/beachguardpublic/](http://publicapps.odh.ohio.gov/beachguardpublic/)
Ohio EPA's site on harmful algal blooms: [http://epa.ohio.gov/HAB-Algae](http://epa.ohio.gov/HAB-Algae)
NOAA's GLERL provides additional HAB data here: [http://www.glerl.noaa.gov/res/HABs_and_Hypoxia](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](https://tidesandcurrents.noaa.gov/hab/lakeerie.html)
Figure 3. Nowcast position of bloom for 09 September, 2019 using LEOFS modelled currents to move the bloom from the 07 September.

Figure 4. Forecast position of bloom for 12 September, 2019 using LEOFS modelled currents to move the bloom from the 07 September.

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https://tidesandcurrents.noaa.gov/hab/lakeerie.html