Analysis
Satellite imagery from 7/5 indicates that cyanobacteria is present in Lake Erie, generally at low concentrations in Maumee Bay and north of Brest Bay. Recent sampling (7/1) shows that measured toxin concentrations are below detectable limits throughout the bloom extent. A cyanobacteria bloom of *Planktothrix* is present in Sandusky Bay. No other blooms are present in Lake Erie.

Forecasts
Winds forecast (5-18 kn) Monday through Thursday (7/8-11) will create the potential for mixing and promote southeast movement of surface *Microcystis* concentrations. —Jim, Davis

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

The images below are "GeoPDF". Please visit https://go.usa.gov/xReTC for instructions on viewing longitude and latitude.
Figure 3. Nowcast position of bloom for 08 July, 2019 using LEOFS modelled currents to move the bloom from the 05 July, 2019 image.

Figure 4. Forecast position of bloom for 11 July, 2019 using LEOFS modelled currents to move the bloom from the 05 July, 2019 image.

Averaged forecasted currents from the Lake Erie Operational Forecast System over the next 72 hours. For more information and to subscribe, please visit the NOAA HAB Forecast page: https://tidesandcurrents.noaa.gov/hab/lakeerie.html