

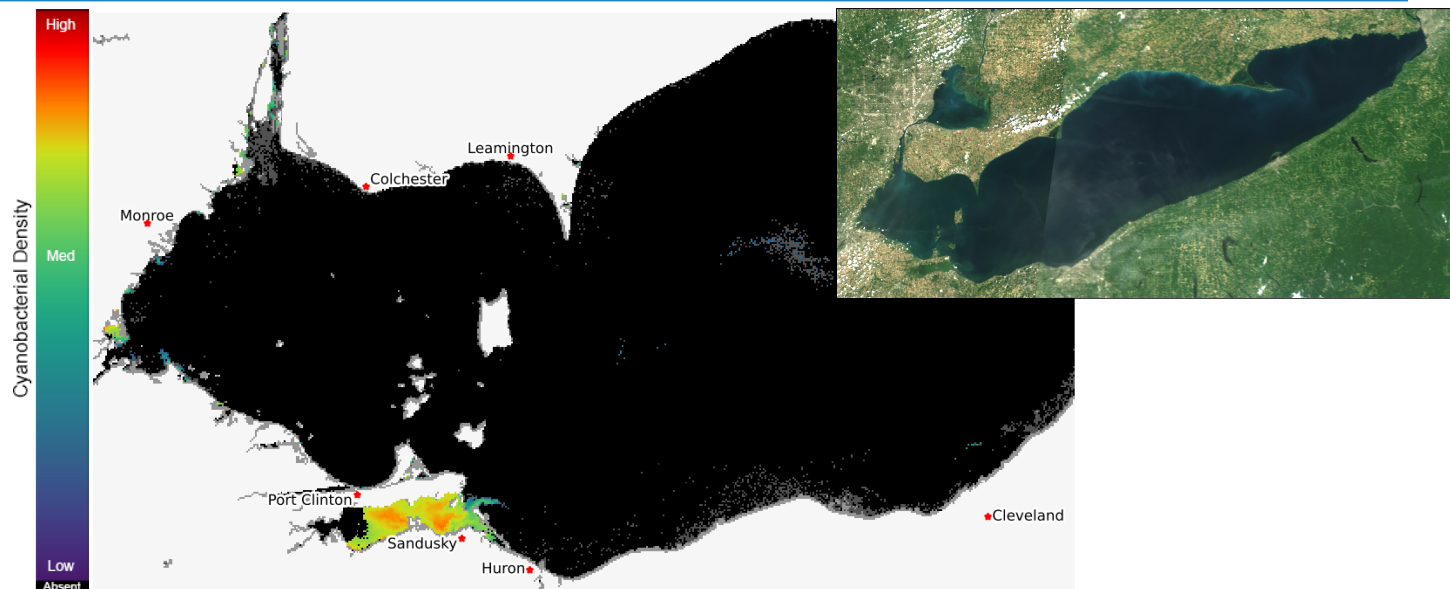
# Lake Erie Harmful Algal Bloom Forecast

2025-07-07

## Summary

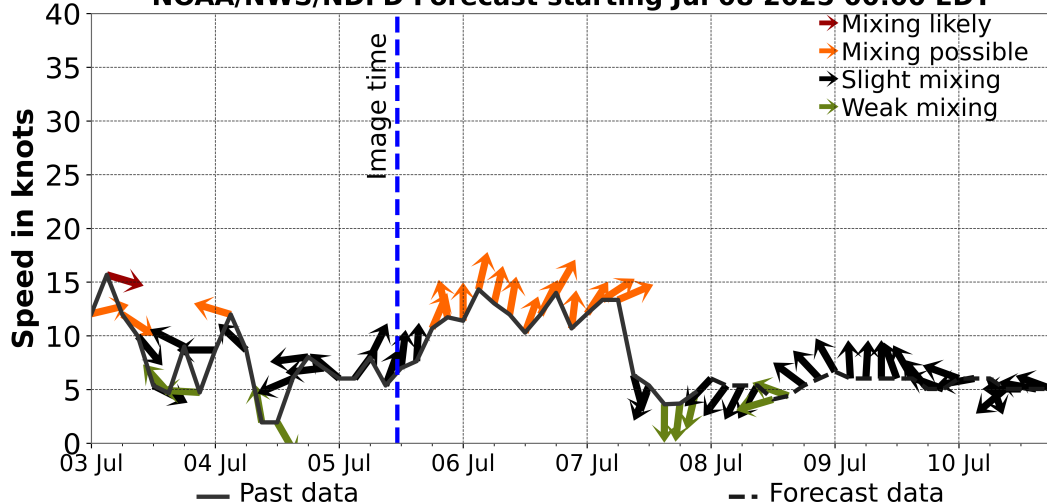
The cyanobacteria bloom in western Lake Erie has an approximate area of 10 square miles, which is unchanged from Jul 04. Satellite imagery shows patches of cyanobacteria (*Microcystis*) in North Maumee Bay near Erie, MI in far western Lake Erie. Sandusky Bay has a local bloom of mixed cyanobacteria. No toxins have been detected in western Lake Erie. We currently do not have toxin data for Sandusky Bay--Stumpf 07/07/2025

The past few days of imagery can be seen at [the HAB monitoring site](https://habs.noaa.gov). The Lake Erie Forecast is operated by the National Centers for Coastal Ocean Science. Contact [hab@noaa.gov](mailto:hab@noaa.gov) for technical Questions. Last Updated: 2025-07-07 11 PM EST



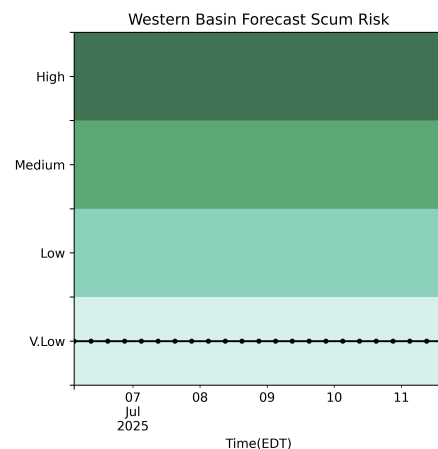
Current Lake Erie Sentinel-3 satellite imagery from the Ocean and Land Color Imager (OLCI) on Jul 05, 2025, showing bloom location and extent in the western basin. Grey indicates clouds or missing data. The estimated threshold of cyanobacteria detection is 20,000 cells/mL. Inset shows a truecolor image of the entire lake. Data derived from Copernicus Sentinel-3.

## ndbc.noaa.gov Winds at South Bass Is, OH NOAA/NWS/NDFD Forecast starting Jul 08 2025 00:00 EDT



Wind speed and direction from SouthBassIs, OH. Blooms mix through water column at wind speeds > 15 knots.

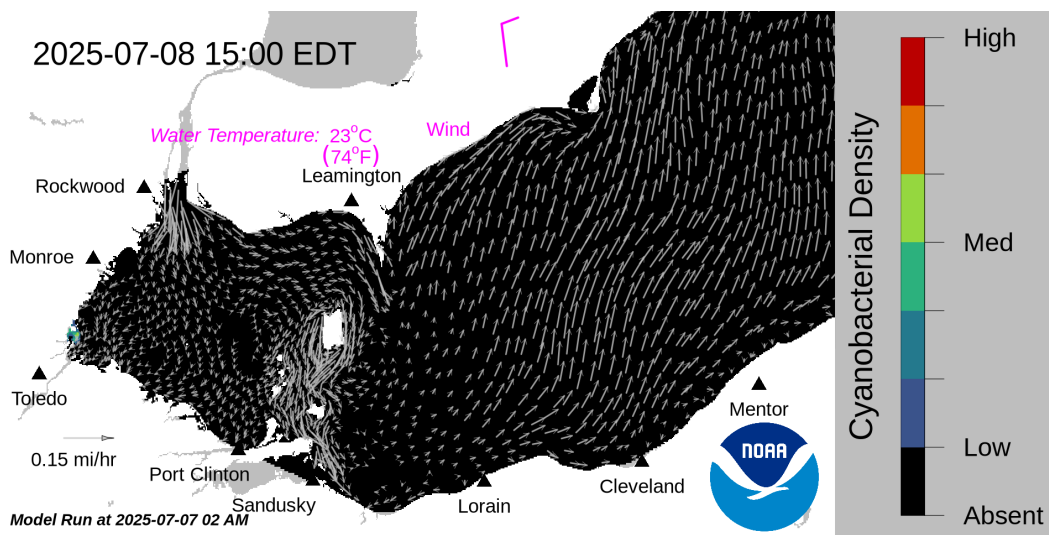
For more information visit: [coastalscience.noaa.gov/science-areas/habs/hab-forecasts/lake-erie/](https://coastalscience.noaa.gov/science-areas/habs/hab-forecasts/lake-erie/)



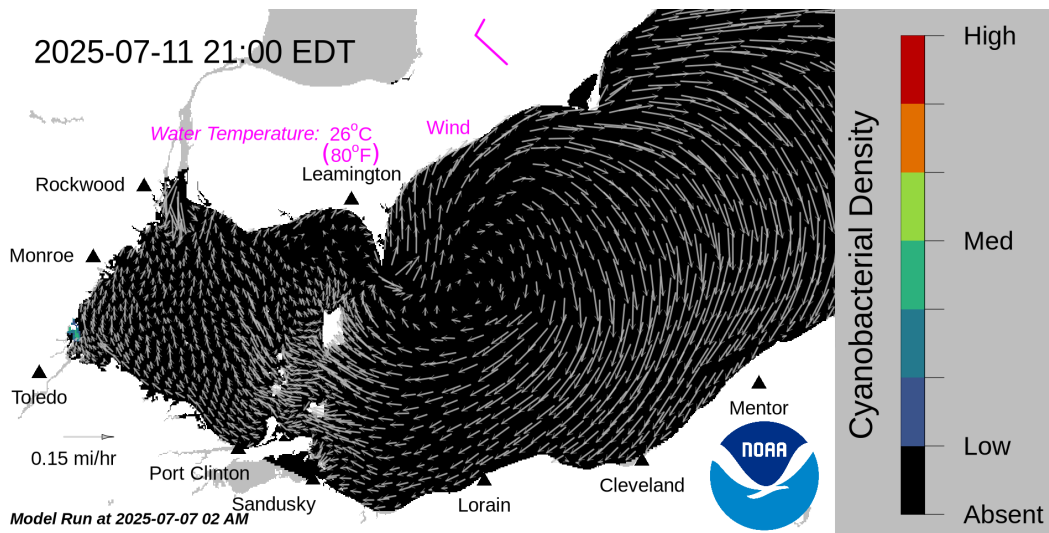
Where the bloom is present in western Lake Erie, the potential risk of scum.

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Forecast surface bloom position for Jul 08, modeled from the last satellite image with water currents estimated from the Lake Erie Operational Forecast System (LEOFS). Potential for bloom movement is forecast in 3-dimensions with a hydrodynamic model using satellite imagery and currents. The modeled output does not contain clouds. Black indicates the absence of chlorophyll and gray indicates area with no data. The arrows show forecasted currents. Water temperature and winds (in magenta) are the averages for the western basin from the model.



Forecast surface bloom position for Jul 11. Black indicates the absence of chlorophyll and gray indicates area with no data. The arrows show forecasted currents. Water temperature and winds (in magenta) are the averages for the western basin from the model.

## Additional resources:

For more information visit: [coastalscience.noaa.gov/science-areas/habs/hab-forecasts/lake-erie/](https://coastalscience.noaa.gov/science-areas/habs/hab-forecasts/lake-erie/)

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