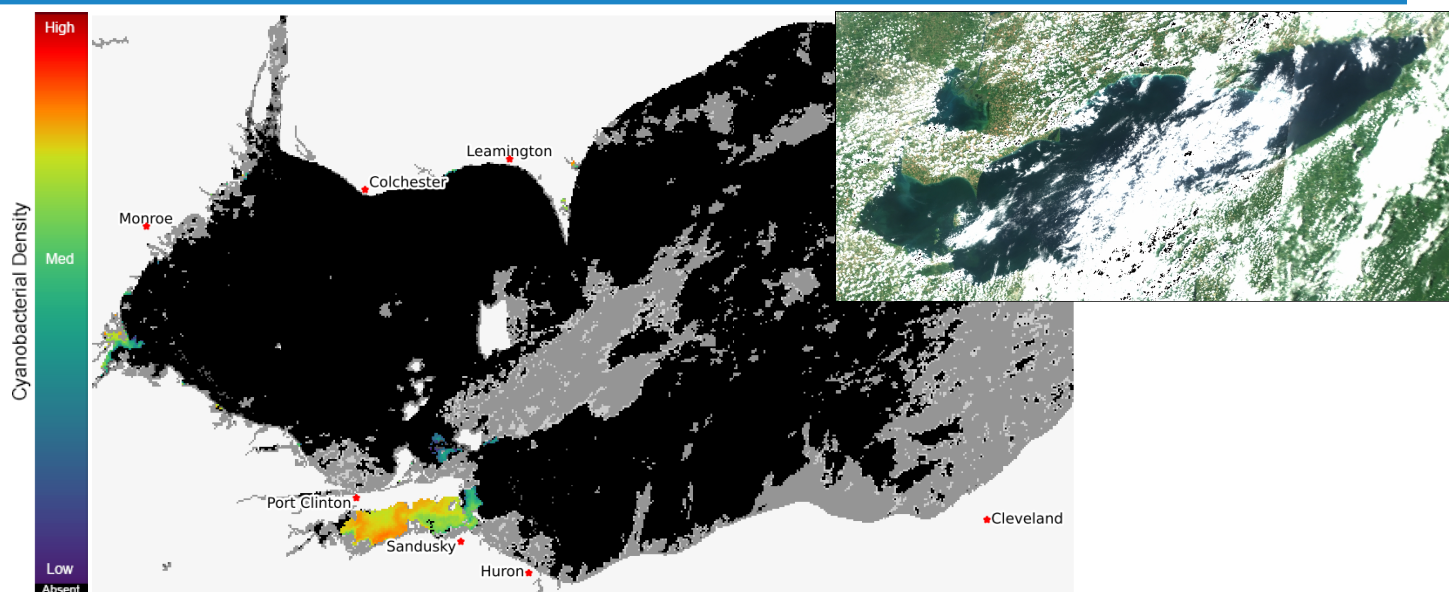


# Lake Erie Harmful Algal Bloom Forecast

2025-07-14

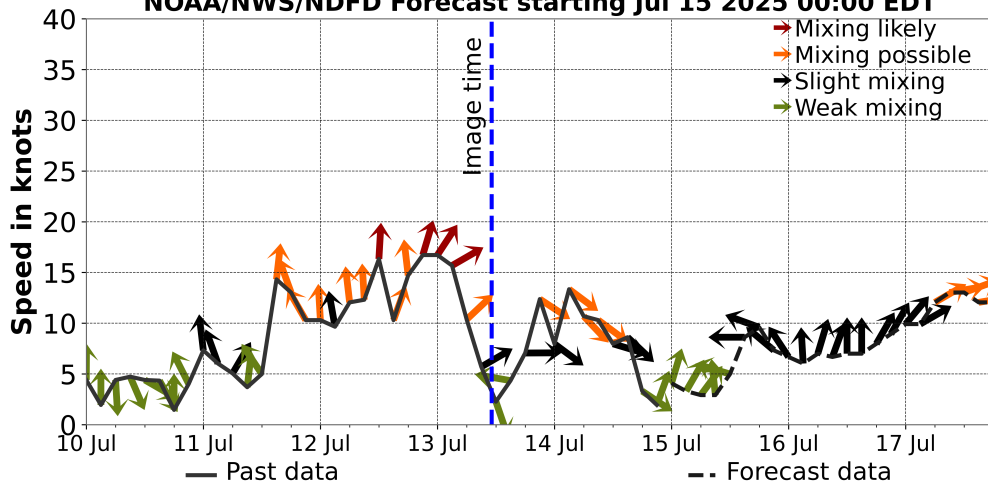
## Summary

The cyanobacteria bloom in western Lake Erie has an approximate area of 10 square miles, which is unchanged from Jul 10. Satellite imagery shows patches of cyanobacteria in North Maumee Bay near Erie, MI in far western Lake Erie. Sandusky Bay has a local, widespread bloom of mixed cyanobacteria. No toxins have been detected in western Lake Erie. Toxins have been detected in Sandusky Bay and can exceed the recreational limit (8 ug/L microcystin) in scums and discolored (green) water. Areas of scum and dense accumulations are a risk for swimming and for pets--Tomlinson and St.Laurent 07/14/2025  
The past few days of imagery can be seen at [the HAB monitoring site](#). 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: 2025-07-14 11 PM EST



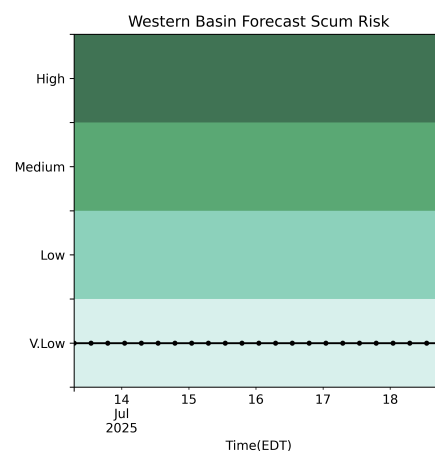
Current Lake Erie Sentinel-3 satellite imagery from the Ocean and Land Color Imager (OLCI) on Jul 13, 2025, showing bloom location and extent in the western basin. Grey indicates clouds or missing data. The estimated threshold of cyanobacteria detection is 20,000 cells/mL. Inset shows a truecolor image 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 15 2025 00:00 EDT



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

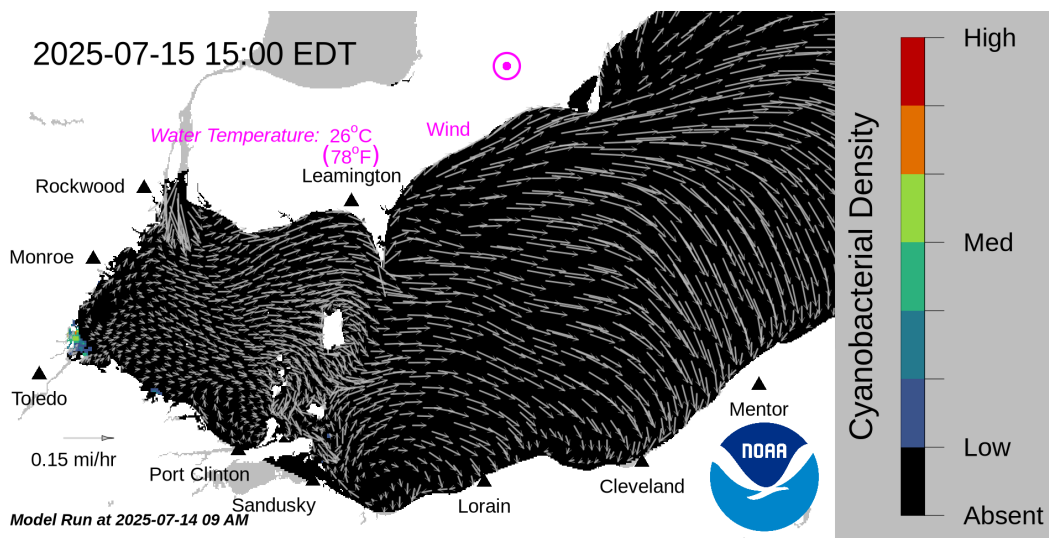
For more information visit: [coastalscience.noaa.gov/science-areas/habs/hab-forecasts/lake-erie/](https://coastalscience.noaa.gov/science-areas/habs/hab-forecasts/lake-erie/)



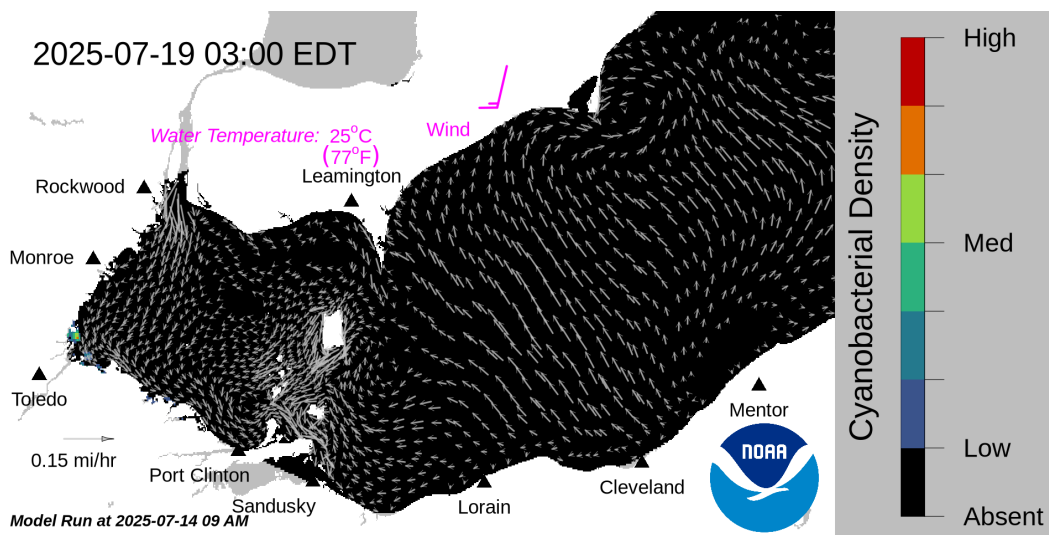
Where the bloom is present in western Lake Erie, the potential risk of scum.

# Lake Erie Harmful Algal Bloom Forecast

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Forecast surface bloom position for Jul 15, 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 18. 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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