

Lake Erie Harmful Algal Bloom Forecast

2025-05-11

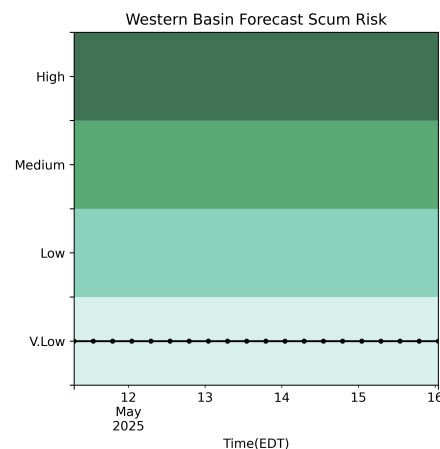
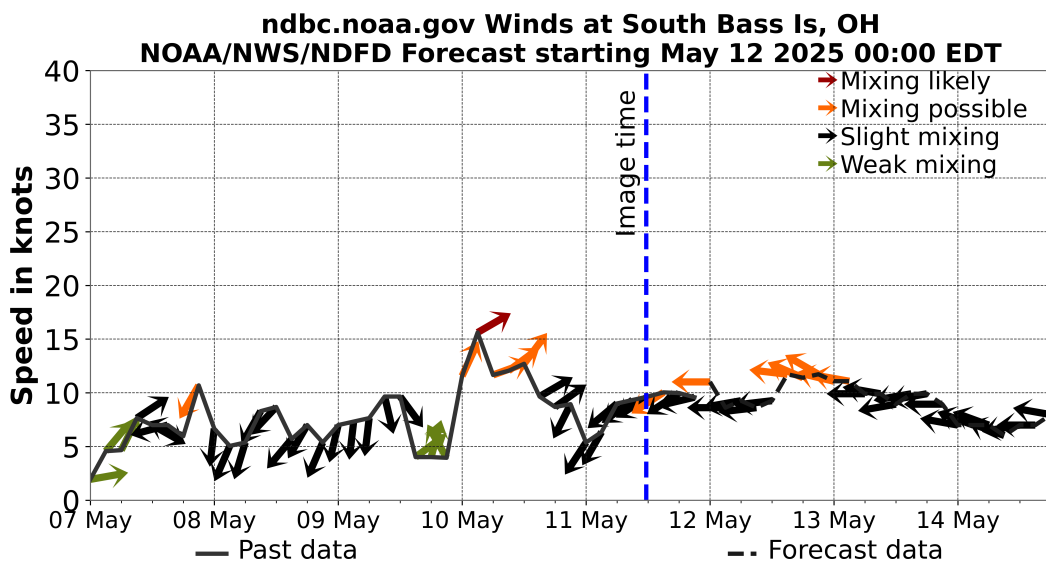
Summary

Cyanobacteria is not currently detectable by satellite in western Lake Erie. The 2024 cyanobacteria bloom has ended. We will issue the 2024 Seasonal Assessment next week. We will return in May 2025 with more information. For satellite images of western Lake Erie, check [the western Lake Erie HAB Monitoring Page](#). No recent toxin data currently available. --The NCCOS HAB Forecasting Team 05 November 2024

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 for technical Questions. Last Updated: 2025-05-11 11 PM EST



Current Lake Erie Sentinel-3 satellite imagery from the Ocean and Land Color Imager (OLCI) on May 11, 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.



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

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

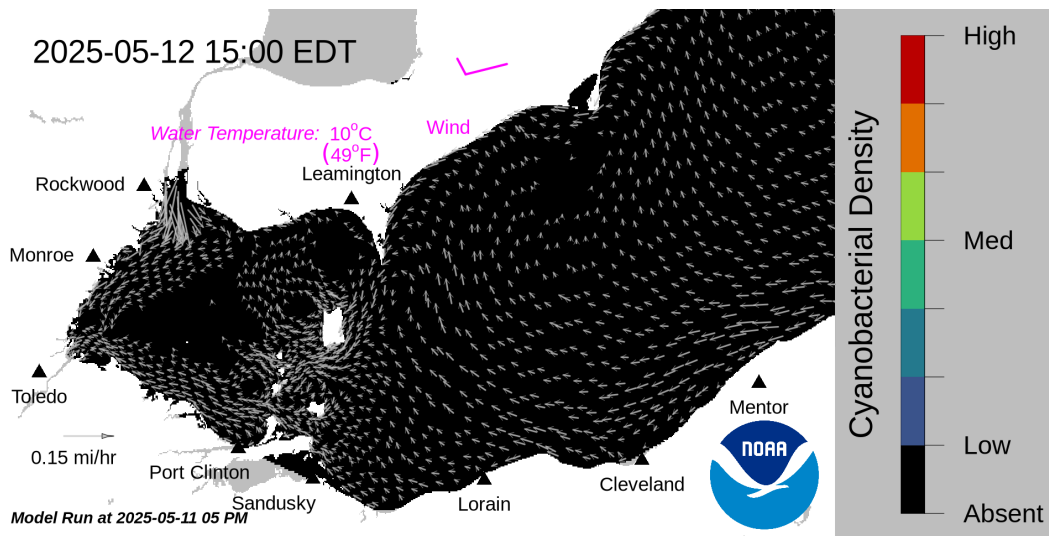
For more information visit: coastalscience.noaa.gov/science-areas/habs/hab-forecasts/lake-erie/

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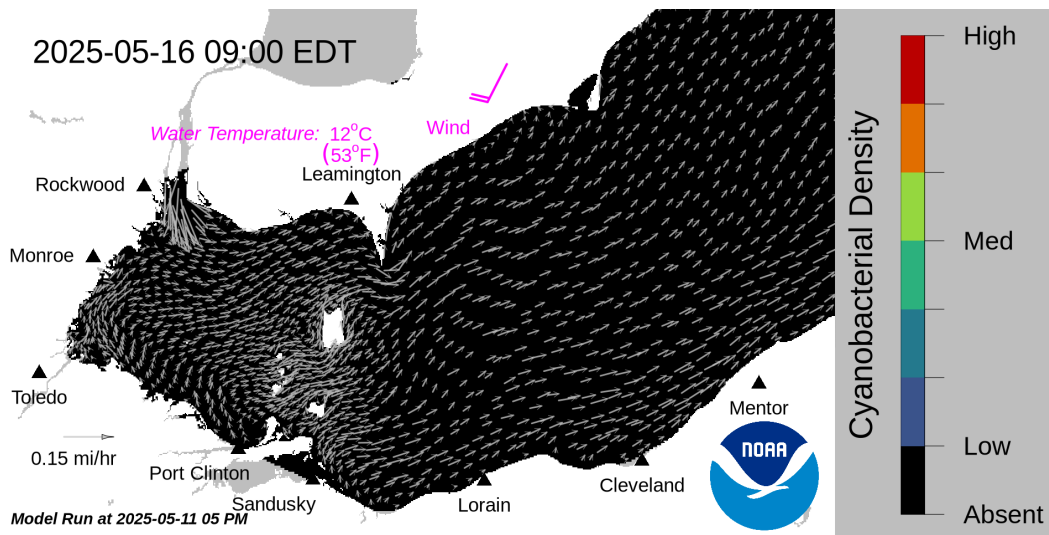
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Forecast surface bloom position for May 12, modeled from the last satellite image with water currents estimated from the Lake Erie Operational Forecast System (LEOFS). Potential for bloom movement is forecast in 3-dimensions with a hydrodynamic model 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 May 16. 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/

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