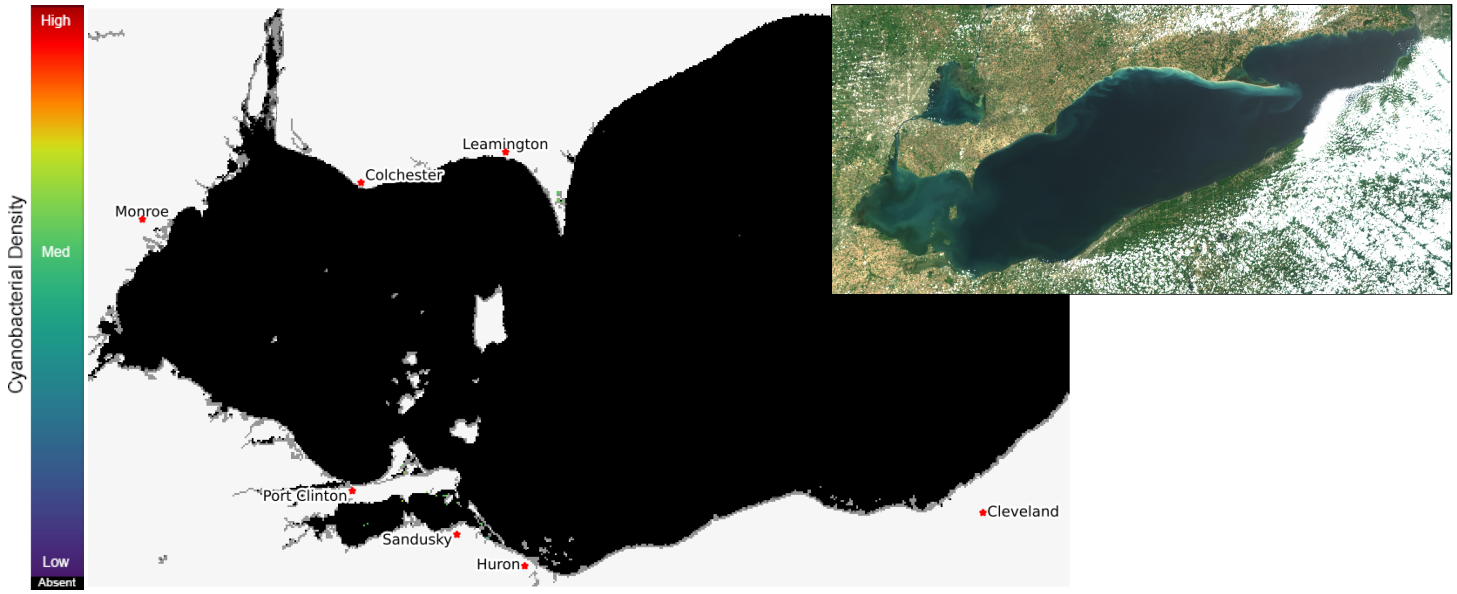
Lake Erie Harmful Algal Bloom Forecast

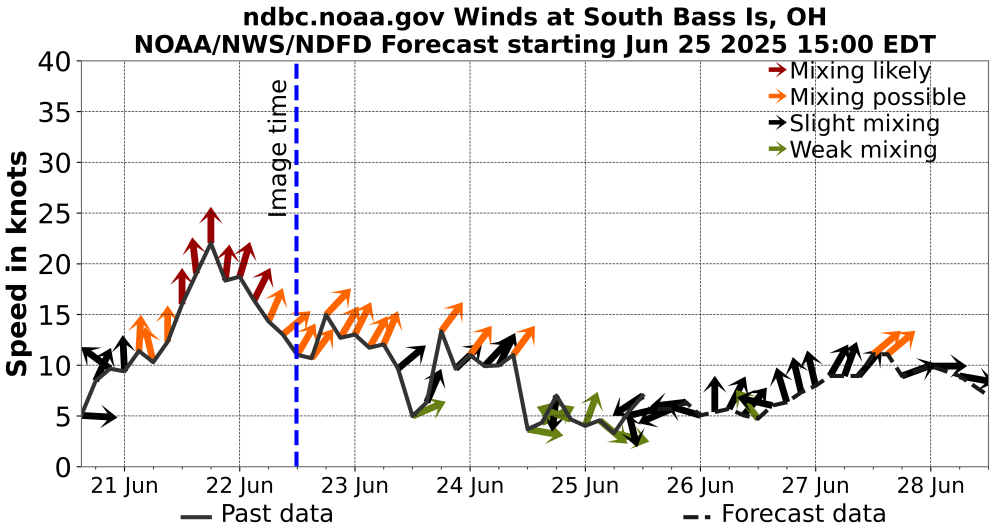
2025-06-25

Summary

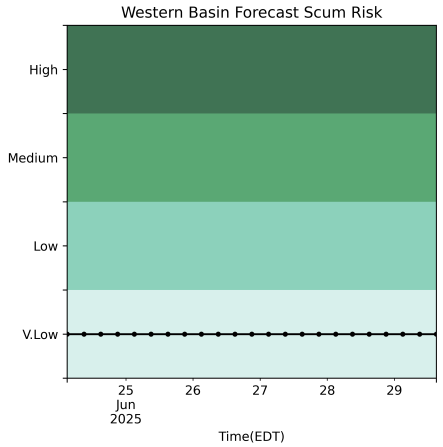
Cyanobacteria is not currently detectable by satellite in western Lake Erie. The seasonal forecast for the cyanobacteria bloom in Lake Erie will be issued June 26.The early season projection is available, and the current bulletin can be found by clicking here. We will update the Observed and Forecasted Bloom Position when cyanobacteria is detectable. For recent satellite images of western Lake Erie, check the western Lake Erie HAB Monitoring Page. No recent toxin data currently available.
--Stumpf 06/24/2025
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 for technical Questions. Last Updated: 2025-06-25 02 PM EST



Current Lake Erie Sentinel-3 satellite imagery from the Ocean and Land Color Imager (OLCI) on Jun 22, 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/

1305 East West Hwy, Rm 8110
Silver Spring, Maryland 20910
coastalscience.noaa.gov
noaacoastalsci | noaa.coastal.sci

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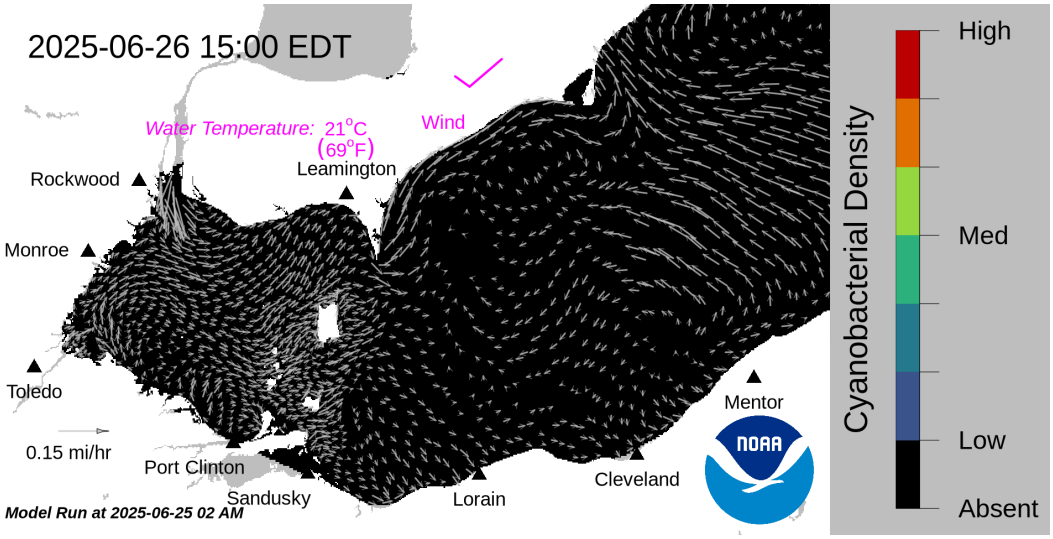
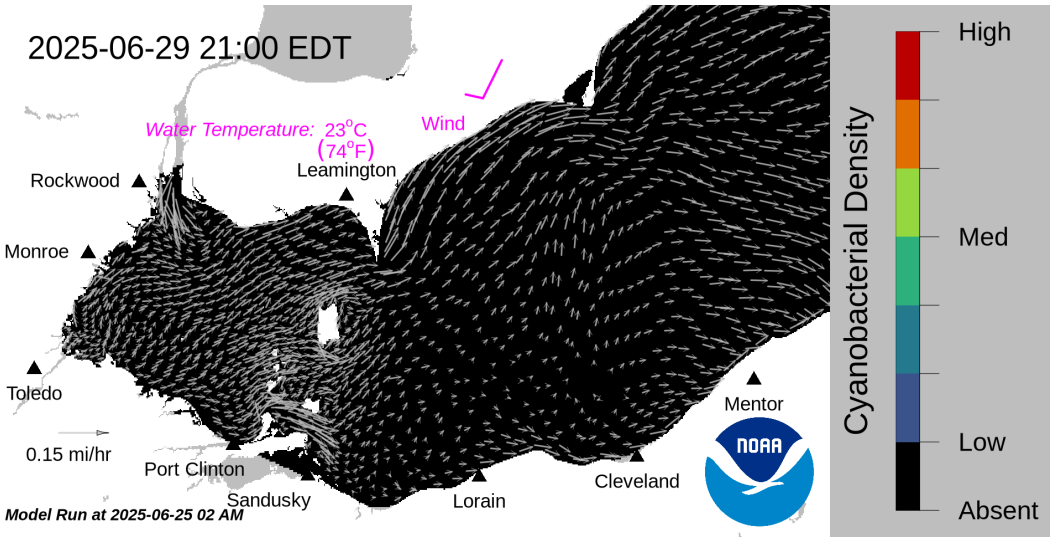


Forecast surface bloom position for Jun 26, modeled from the last satellite image with water currents estimated from the Lake Erie Operational Forecast System (LEOFS). Potential for bloom movement is forecast in 3-dimensions with a hydrodynamic model using satellite imagery and currents. The modeled 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 Jun 29. 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:

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