

Lake Erie Harmful Algal Bloom Forecast

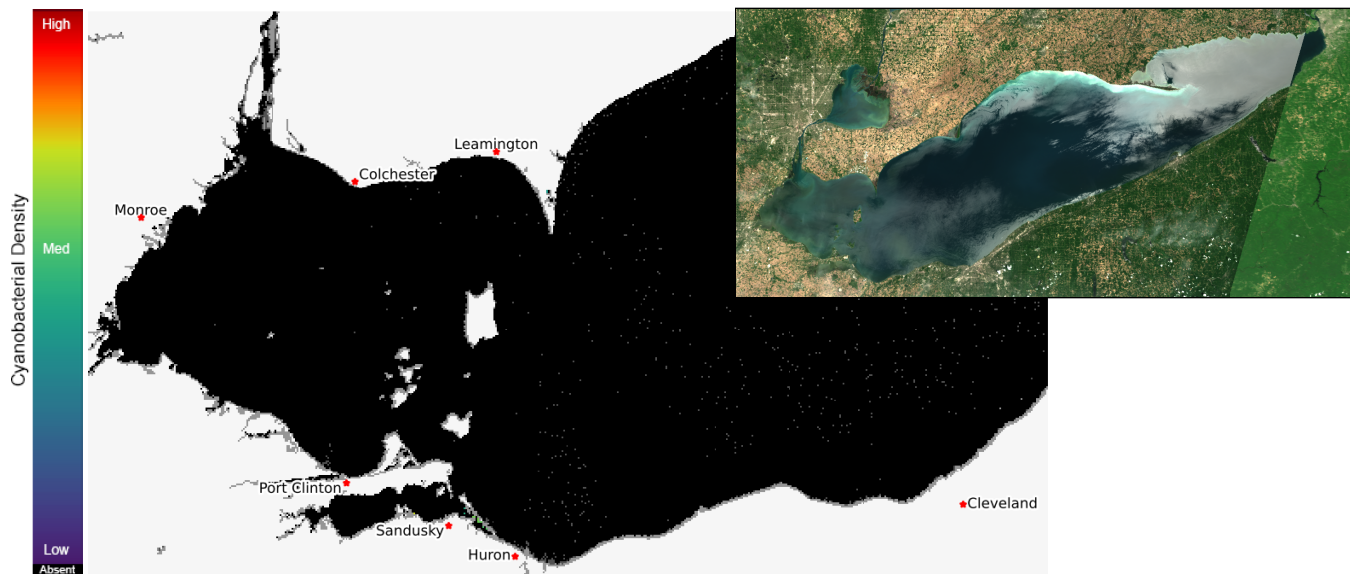


NATIONAL CENTERS FOR COASTAL OCEAN SCIENCE

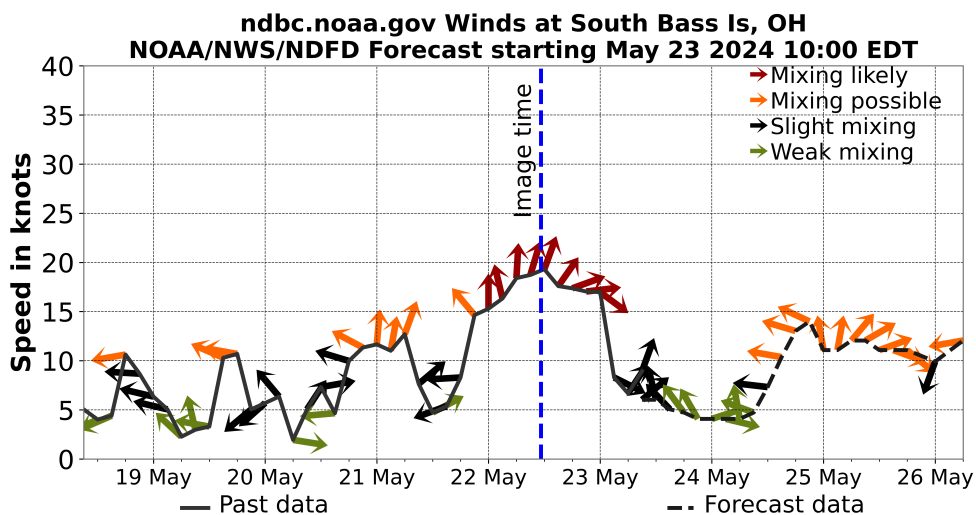
Imagery Analysis & Forecast - 2024-05-24

We have begun issuing weekly Early Season Bloom Projections for the 2024 cyanobacteria bloom season. The current bulletin can be found by [clicking here](#). We will begin updating the Observed and Forecasted Bloom Position in late June 2024. For recent images of western Lake Erie, check [the western Lake Erie HAB Monitoring Page](#). --NCCOS HAB forecasting team 05/08/2024

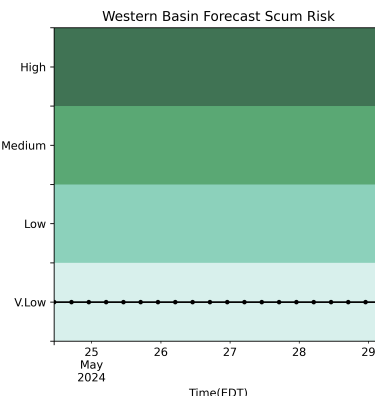
The past few days of imagery can be seen at [the HAB monitoring site](#). The Lake Erie Forecast is operated by the National Centers for Coastal Ocean Science. Contact hab@noaa.gov for technical Questions. Last Updated: 2024-05-24 09 PM EST



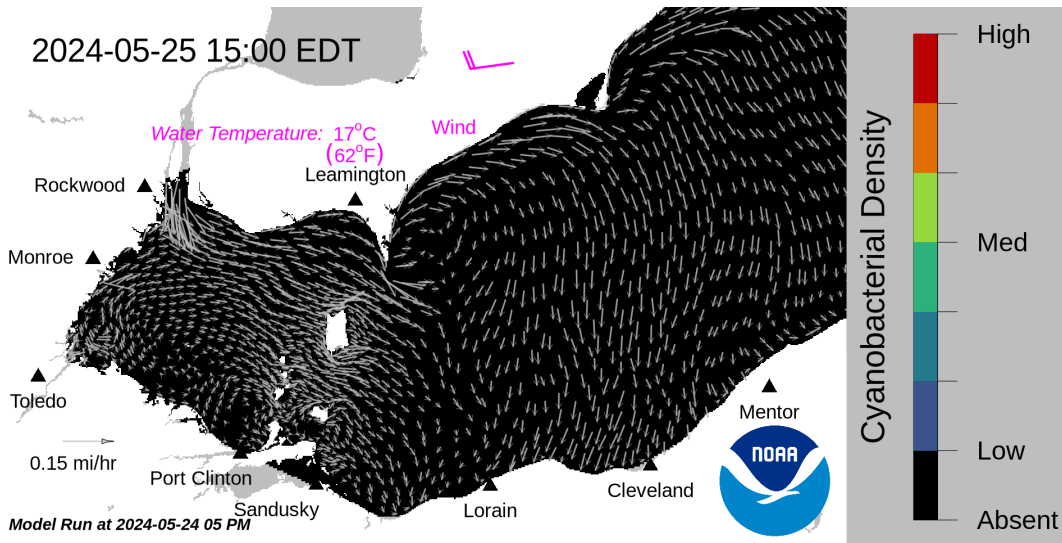
Current Lake Erie Sentinel-3 satellite imagery from the Ocean and Land Color Imager (OLCI) on May 24, 2024, showing bloom location and extent in the western basin. Grey indicates clouds or missing data. The estimated threshold of cyanobacteria detection is 20,000 cells/mL. Inset shows a truecolor image of the entire lake. Data derived from Copernicus Sentinel-3.



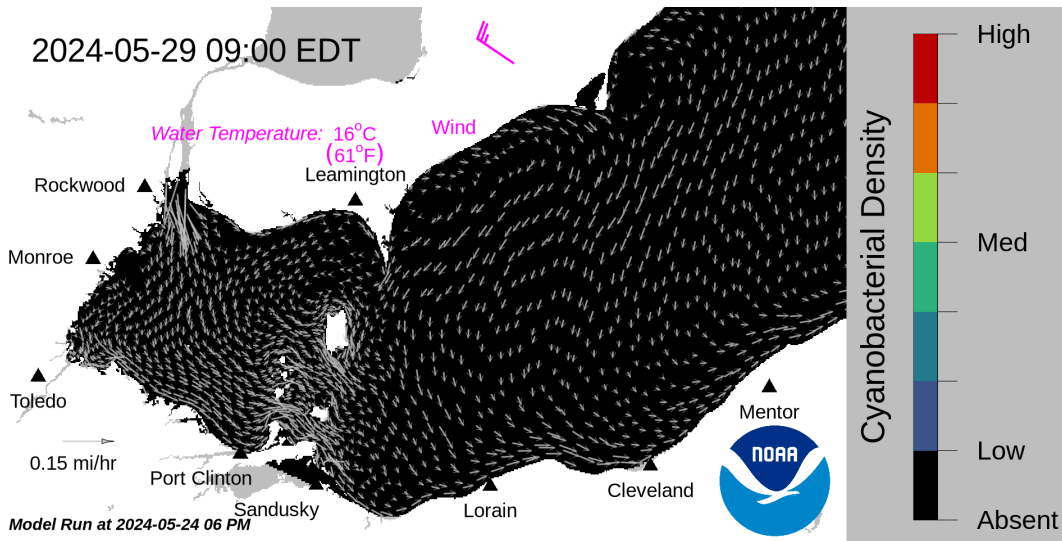
Wind speed and direction from SouthBassIs, OH. Blooms mix through water column at wind speeds > 15 knots.



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



Forecast surface bloom position for May 25, 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 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 resource:

- [Archived Lake Erie Forecasts](#)
- [More information about our bloom monitoring imagery](#)
- [FAQs - Frequently Asked Questions about cyanobacteria and the forecasts NOAA issues](#)
- [Contributors and Data Providers](#)
- [Lake Erie HAB Forecast Guide - User guide to help navigate the forecast products](#)