Experimental
Lake Erie Harmful Algal Bloom Bulletin

2010-021
22 November 2010
National Ocean Service
Great Lakes Environmental Research Laboratory
Last bulletin: 14 October 2010

Conditions: test

Analysis: test

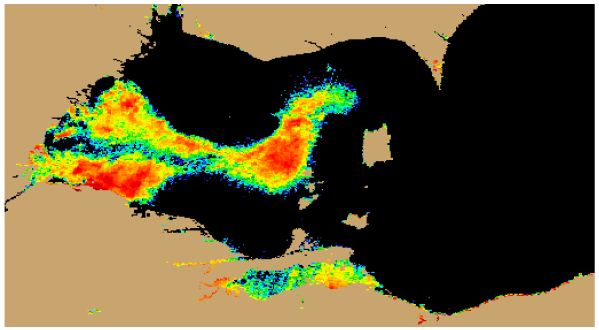


Figure 1. MERIS image from the European Space Agency. Imagery shows the spectral shape at 681 nm from September 22, where colored pixels indicate the likelihood of the last known position of the *Microcystis* spp. bloom (with red being the highest concentration). *Microcystis* spp. abundance data from September 21 shown as white squares (very high), circles (high), diamonds (medium), triangles (low) , + (very low) and X (not present).

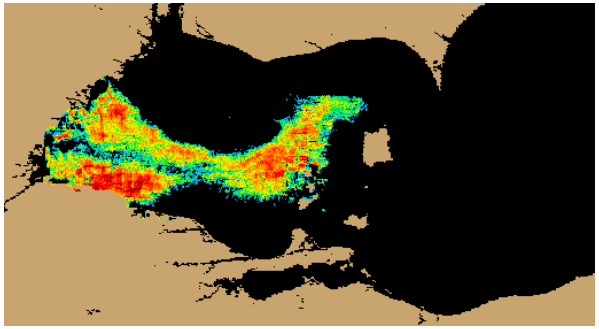


Figure 2. Nowcast position of *Microcystis* spp. bloom for November 22 using GLCFS modeled currents to move the bloom from the September 22 image.

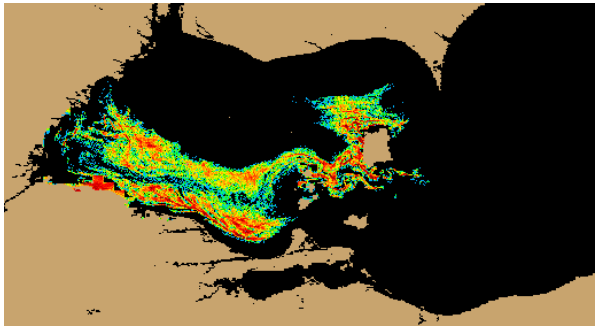
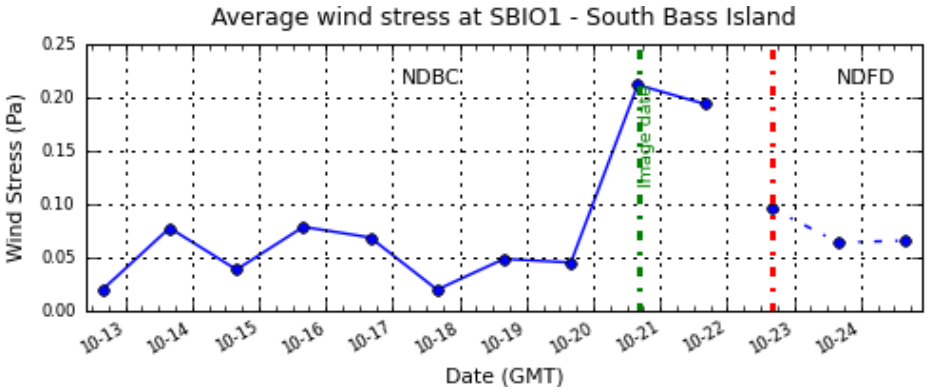
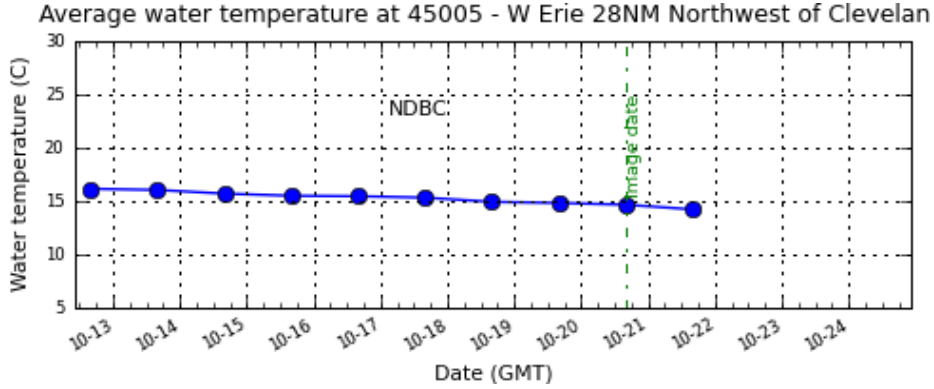


Figure 3. Forecast position of *Microcystis* spp. for September 26 using GLCFS modeled currents to move the bloom from September 22 image.

Please note:
- MERIS imagery was distributed by the NOAA CoastWatch Program and provided by the European Space Agency
- http://www.glerl.noaa.gov/res/Centers/HABS/lake_erie_hab/lake_erie_hab.html
- Cell counts were collected by the Great Lakes Environmental Research Laboratory
- The wind data is available through the National Data Buoy Center and the National Weather Service
- Modeled currents were provided through the Great Lakes Coastal Forecasting System


Average wind stress at SBIO1 - South Bass Island
Wind Stress (Pa)
0.25
0.20
0.15
0.10
0.05
0.00
NDBC
NDFD
Image data
10-13
10-14
10-15
10-16
10-17
10-18
10-19
10-20
10-21
10-22
10-23
10-24
Date (GMT)


Average water temperature at 45005 - W Erie 28NM Northwest of Clevelan
Water temperature (C)
30
25
20
15
10
5
NDBC
Image data
10-13
10-14
10-15
10-16
10-17
10-18
10-19
10-20
10-21
10-22
10-23
10-24
Date (GMT)