The bloom moved southeast toward the Ohio shore from Thursday (13 Aug) to Saturday (16 Aug). Slight mixing may have occurred, winds were strong enough to reduce scum formation.

Easterly winds over the next few days. Light mixing possible, but little additional movement of the bloom is expected. Cloud cover possible over the next few days.

The imagery shows the persistent bloom in Sandusky Bay is present. There are no reported harmful algal blooms or suspicious features in the Eastern Basin at this time.

As a reminder, the images below are “GeoPDF”. Selecting “Tools, Analyze, Geospatial Location Tool”, will allow you to view longitude and latitude under your cursor.

-Dupuy, Stumpf

Figure 1. Cyanobacterial Index from NASA’s MODIS-Aqua data collected 16 August 2014 at 2:20 pm. Grey indicates clouds or missing data. Black represents no cyanobacteria detected. Colored pixels indicate the presence of cyanobacteria. Cooler colors (blue and purple) indicate low concentrations and warmer colors (red, orange, and yellow) indicate high concentrations. The estimated threshold for cyanobacteria detection is 35,000 cells/mL.

Figure 2. Nowcast position of bloom for 18 August 2014 using GLCFS modeled currents to move the bloom from the 16 August 2014 image.

Figure 3. Forecast position of bloom for 21 August 2014 using GLCFS modeled currents to move the bloom from the 16 August 2014 image.

Wind Speed, Gusts and Direction from Marblehead, OH. From: NOAA/Center for Operational Oceanographic Products and Services (CO-OPS). Note: 1 knot = 0.51444 m/s. Blooms mix through the water column at wind speeds greater than 7.7 m/sec (~ 15 knots).

Water Temperature from Marblehead, OH. From: NOAA/Center for Operational Oceanographic Products and Services (CO-OPS).