



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

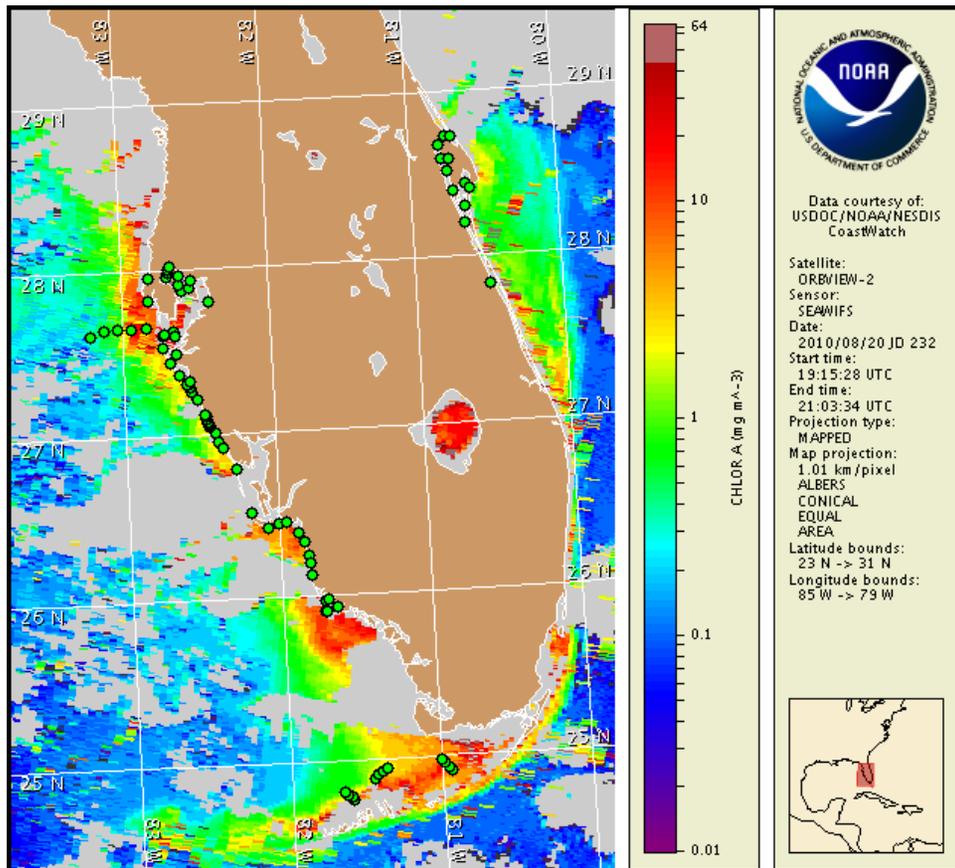
23 August 2010

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: August 16, 2010



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from August 15 to 20 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

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1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.

Conditions Report

There is currently no indication of a harmful algal bloom at the coast in southwest Florida, including the Florida Keys. No impacts are expected alongshore southwest Florida today through Sunday, August 29.

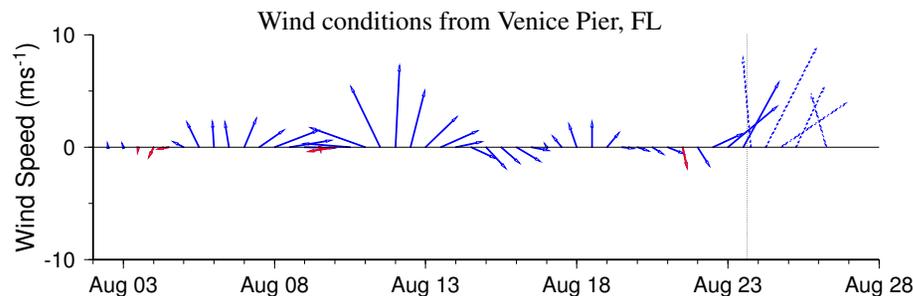
Analysis

There is currently no indication of a harmful algal bloom in southwest Florida, including the Florida Keys. All samples taken alongshore from Pinellas to Monroe Counties and in the Florida Keys region indicate that *K. brevis* is not present (FWRI, MML, SCHD, 8/16-20). A dissipating bloom of *Takayama tuberculata* has been reported along Seagate Beach in northern Collier County. No impacts in association with this boom have been reported, however water discoloration is possible (CCPCD, 8/20)

Recent satellite imagery is partly obscured by clouds. Elevated chlorophyll (3 to >10 $\mu\text{g/L}$) visible in many areas along- and offshore from Pinellas to Monroe Counties and in the Florida Keys region is likely the result of mixed non-harmful algal blooms that continue to be reported in many southwest Florida counties (FWRI, 8/16-20).

Southwest and south winds forecasted today through Wednesday night will minimize the potential for *K. brevis* bloom formation, while northeast and north winds forecasted Thursday through Friday may be favorable for *K. brevis* bloom formation.

Yang, Fenstermacher

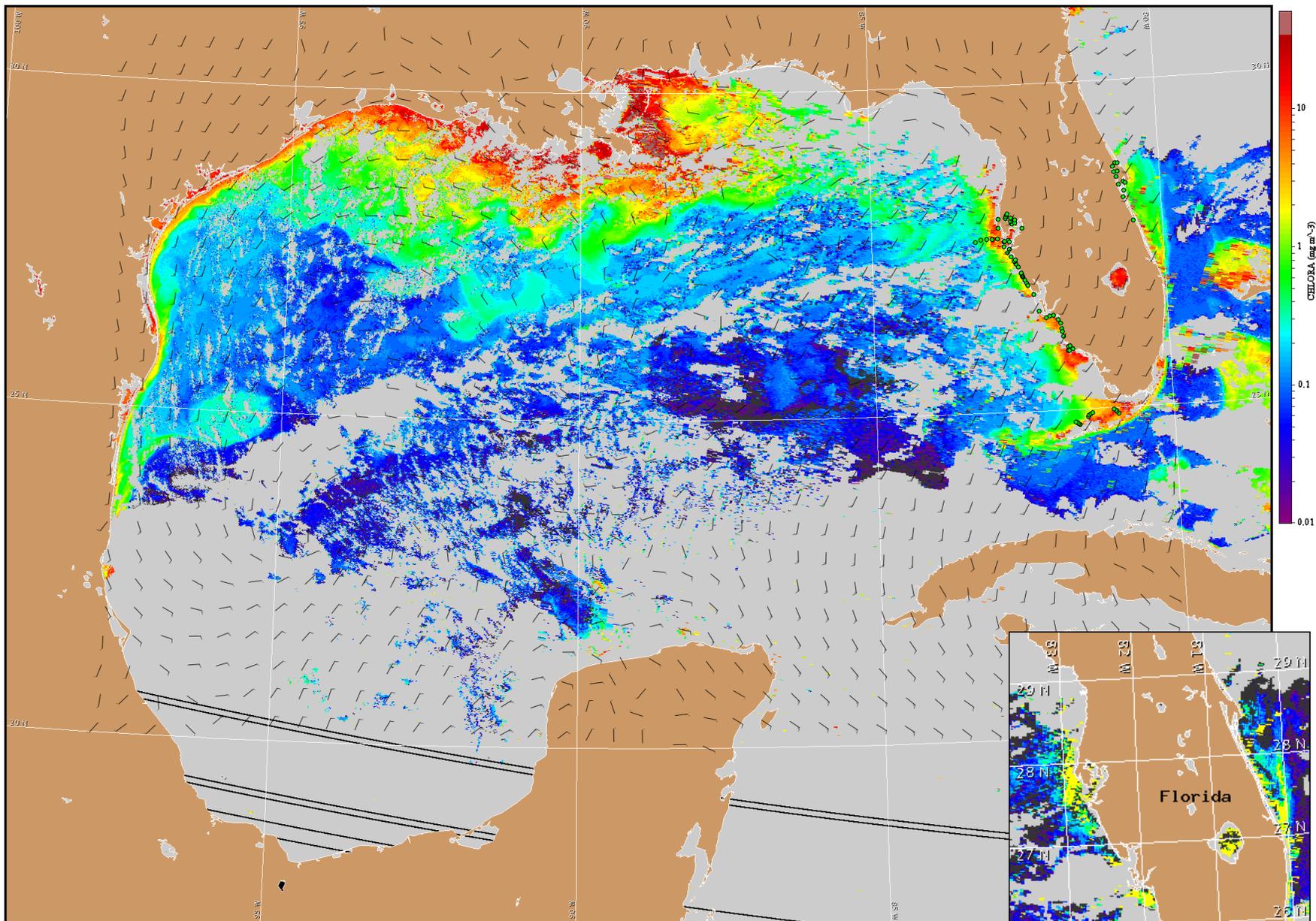


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

Wind Analysis

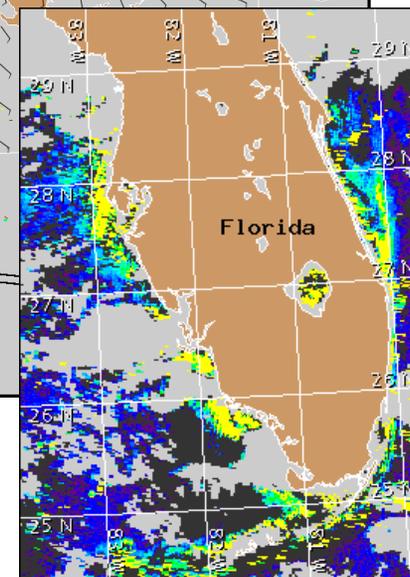
Southwest Florida: Southwest to south winds (5-15kn, 3-8m/s) today through Wednesday night. North to northeast winds (5-10kn, 3-5m/s) Thursday through Friday.

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA CoastWatch bulletin archive: http://coastwatch.noaa.gov/hab/bulletins_ns.htm



Satellite chlorophyll image and forecast winds for August 24, 2010 06Z with Cell concentration sampling data from August 15 to 20 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide:

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Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).