



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

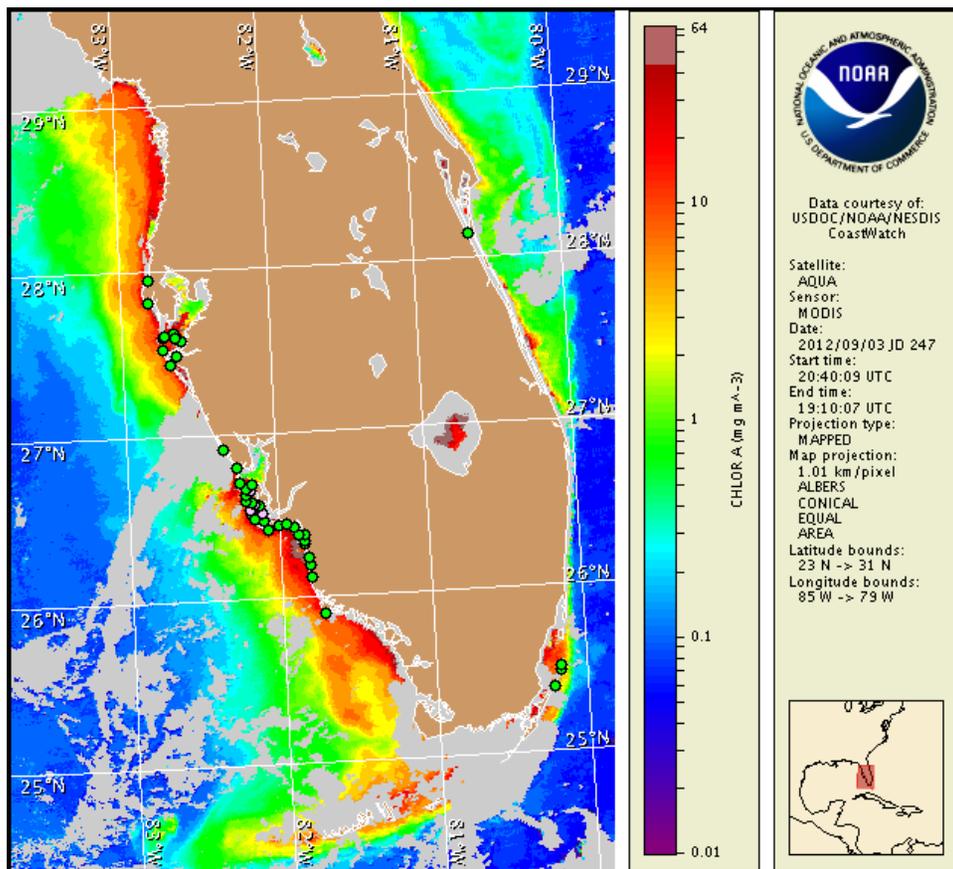
Tuesday, 04 September 2012

NOAA Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, August 27, 2012



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from August 26 to 30 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 HAB-OFS bulletin guide:

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

Detailed sample information can be obtained through the Florida FWC Fish and Wildlife Research Institute at:

<http://myfwc.com/research/redtide/events/status/statewide/>

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit at: <http://tidesandcurrents.noaa.gov/hab/bulletins.html>

Conditions Report

There is currently no indication of a harmful algal bloom of *Karenia brevis* (commonly known as Florida red tide) in southwest Florida, including the Florida Keys. No respiratory impacts are expected alongshore southwest Florida today through Sunday, September 9.

Analysis

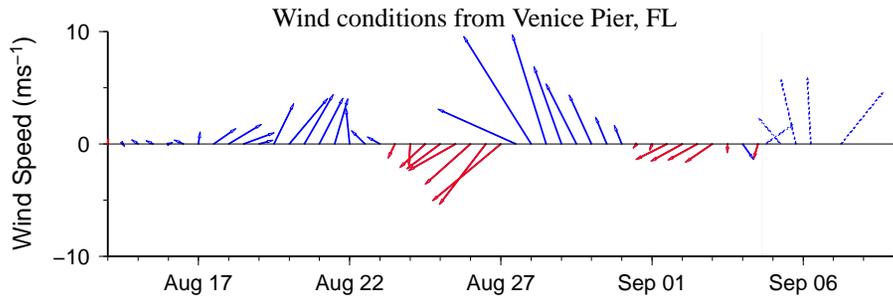
There is currently no indication of a harmful algal bloom of *Karenia brevis* in southwest Florida, including the Florida Keys. Background concentrations of *K. brevis* were identified in four samples within the Pine Island Sound in Lee County last week (8/30; FWRI). There was no additional *K. brevis* present in samples collected alongshore Pinellas, Manatee, Sarasota, Charlotte, Lee, or Collier counties, or offshore Lee County over the last week (8/23-30; CCPCPD, FWRI, MML).

An unpleasant odor has been reported from the Mansota Beach area of Sarasota County as a result of hundreds of dead sea turtle eggs. The smell, while unpleasant, does not produce the same respiratory irritation as the Florida red tide caused by *K. brevis* (9/2-3; MML).

Recent MODIS imagery (9/3; shown left) is patchy alongshore southwest Florida, limiting analysis along Sarasota and Charlotte counties. Elevated to very high chlorophyll (5 to $>20 \mu\text{g/L}$) is present along- and offshore Pinellas, Manatee, Lee, Collier, and Monroe counties, including a patch of very high chlorophyll just offshore southern Lee to northern Collier County. No *K. brevis* has been identified throughout this region (8/23-30; FWRI). Elevated chlorophyll along the coast may be the result of various non-toxic blooms that continue to be reported throughout the region.

Upwelling favorable winds over the past few days may increase the potential for bloom formation at the coast early this week.

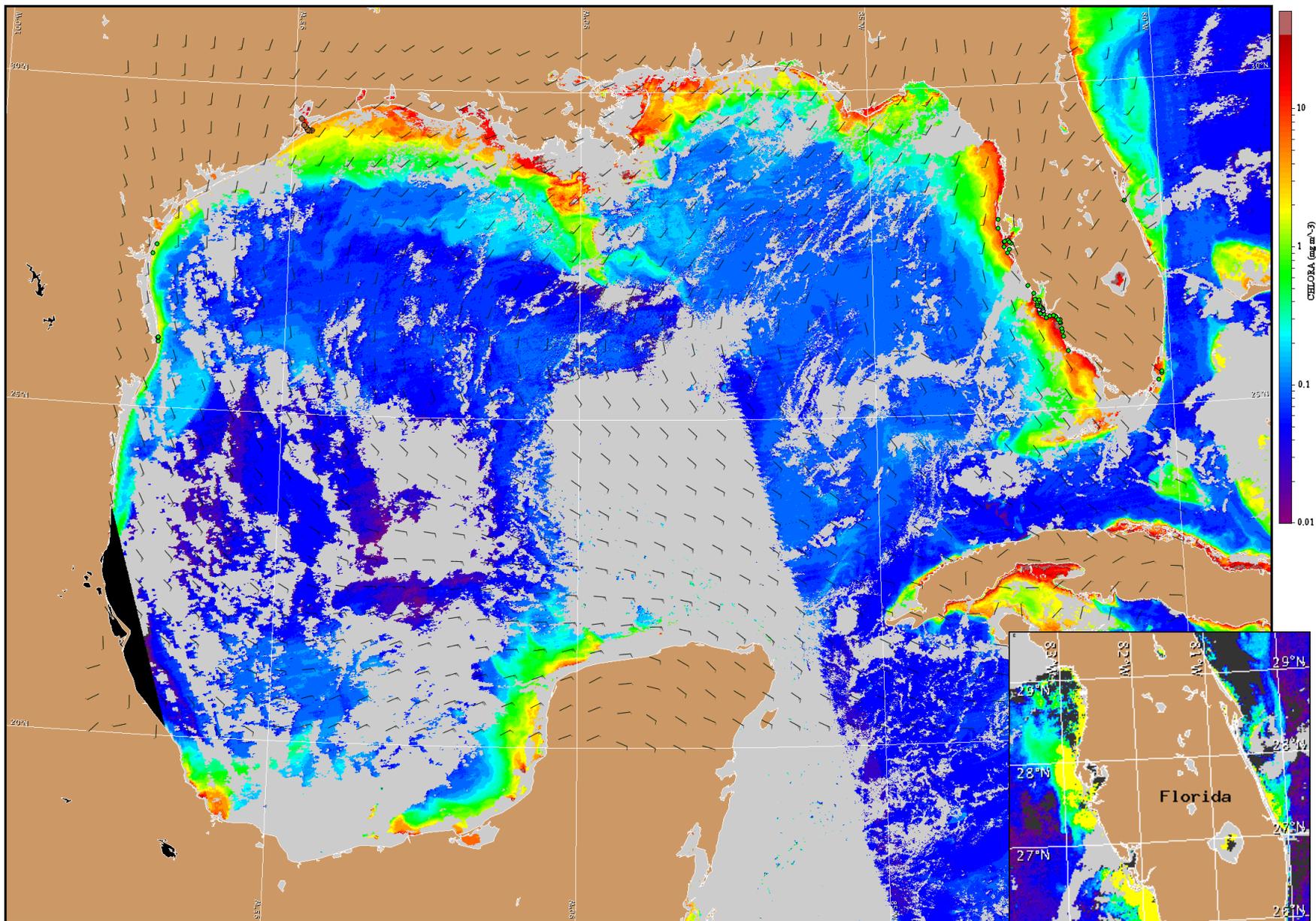
-Derner, Yang



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).

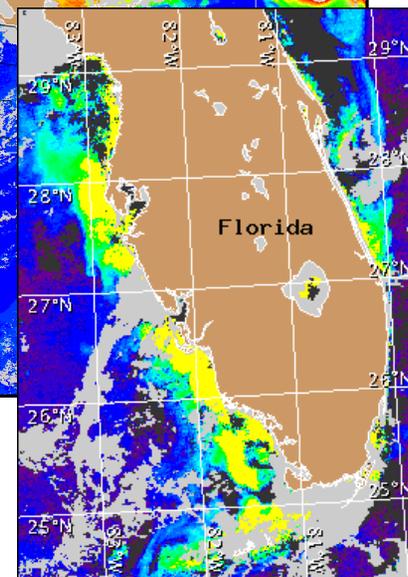
Wind Analysis

Southwest Florida: South winds (5kn, 3m/s) today becoming southwest (5-15kn, 3-8m/s) this afternoon through Friday. West winds (15kn, 8m/s) Friday night through Saturday.



Satellite chlorophyll image and forecast winds for September 5, 2012 06Z with cell concentration sampling data from August 26 to 30 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 HAB-OFS 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).