



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

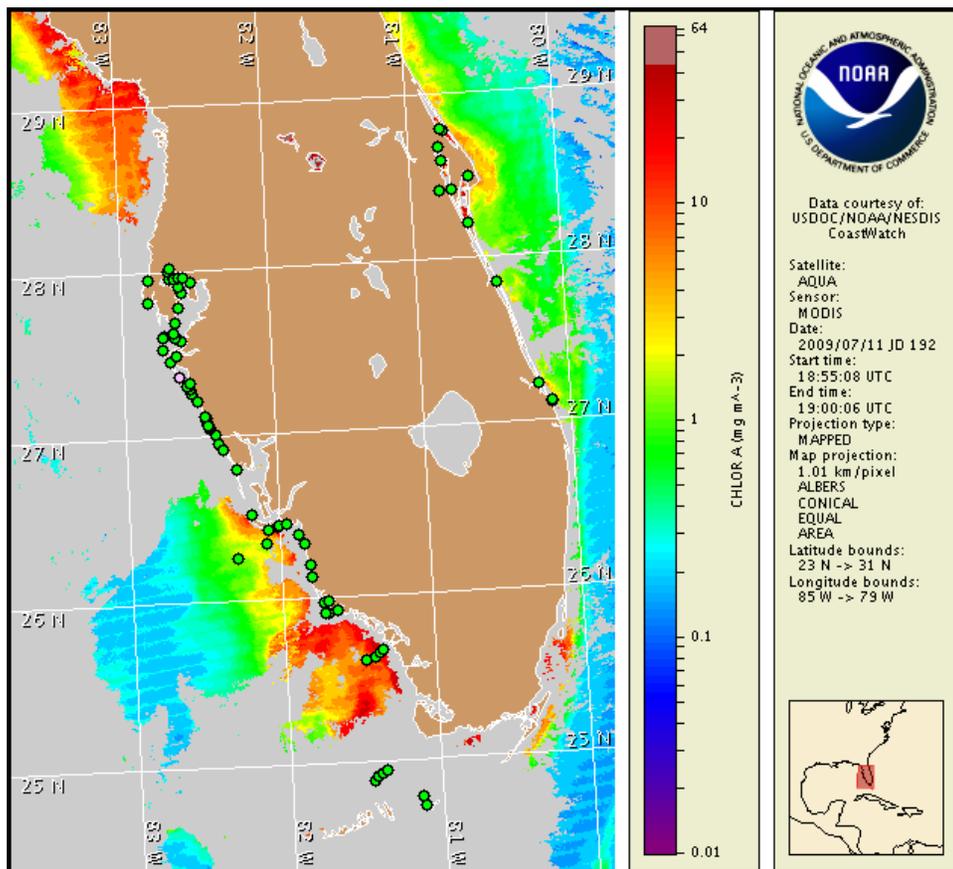
13 July 2009

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: July 6, 2009



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from July 3 to 9 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

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

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, July 12. Discolored water has been reported in the northwestern region of Tampa Bay over the last week. This discoloration is attributed to a bloom of the algae *Pyrodinium bahamense* which does not produce respiratory irritation impacts associated with the Florida red tide caused by *Karenia brevis*.

Analysis

There is currently no indication of a harmful algal bloom at the coast in southwest Florida. Background concentrations of *Karenia brevis* were identified in two samples collected alongshore Sarasota County at Longboat Key and Lido Casino (SCHD, 7/6). *Karenia brevis* was not identified in any other samples collected alongshore southwest Florida (FWRI, SCHD, MML; 7/3-7/10). Satellite imagery is obscured by cloud cover over Sarasota County, limiting bloom analysis in that location. MODIS imagery (7/11) indicates that chlorophyll remains elevated to high alongshore and offshore southern Lee County (southern Sanibel Island region), and offshore southern Collier and Monroe Counties (southwest of Cape Romano and northwest of Cape Sable, respectively).

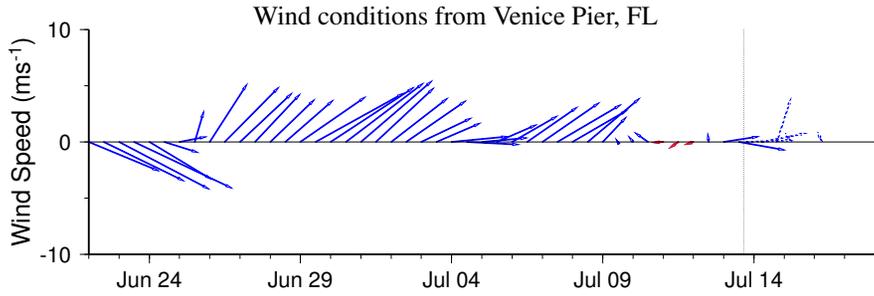
Discolored water continued to be reported last week in the northwestern Tampa Bay region due to a bloom of *Pyrodinium bahamense*. No impacts have been reported in association with this bloom (FWRI, 7/2). Harmful algal bloom formation alongshore southwest Florida is not expected today through Sunday, July 12.

Due to technical difficulties, SeaWiFS imagery is presently unavailable. MODIS imagery has been used for bloom analysis and is displayed on this bulletin.

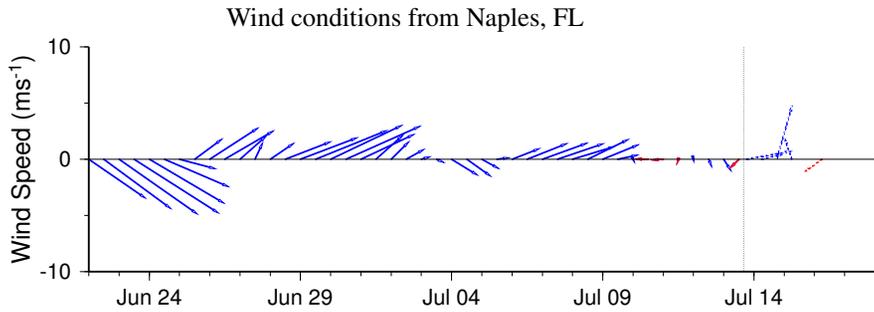
-Lindley, Derner

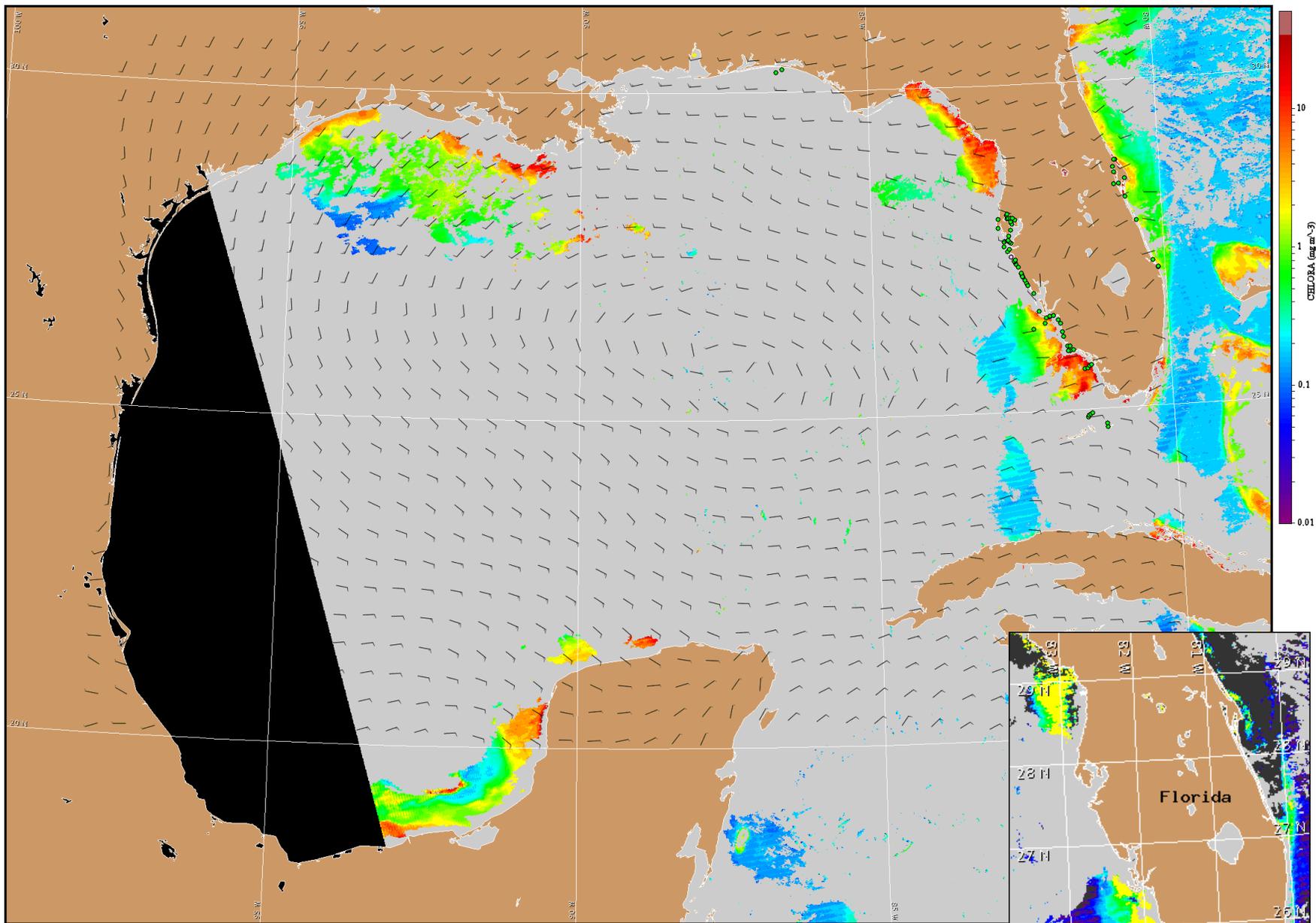
Wind Analysis

Northeast winds today becoming southwest tonight (5 kn, 3 m/s). South winds Tuesday becoming southeast Tuesday night (5 kn, 3 m/s). Southeast winds Wednesday (10 kn, 5 m/s). East winds Thursday (5 kn, 3 m/s) becoming south east Thursday night and Friday (10 kn, 5 m/s).



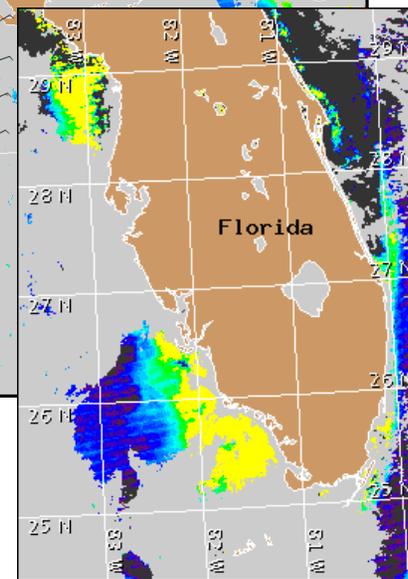
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.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





Satellite chlorophyll image and forecast winds for July 14, 2009 12Z with Cell concentration sampling data from July 3 to 9 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).