

Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

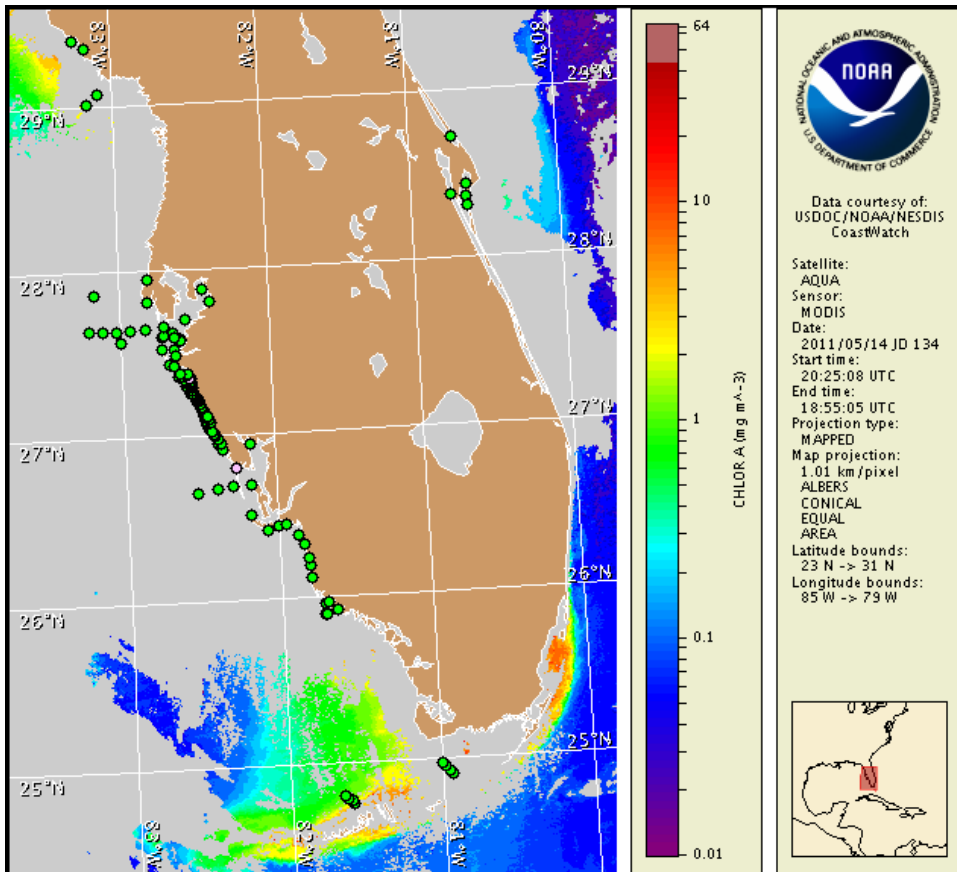
Monday, 16 May 2011

NOAA Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, May 9, 2011



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from May 6 to 12 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

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:

<http://tidesandcurrents.noaa.gov/hab/bulletins.html>

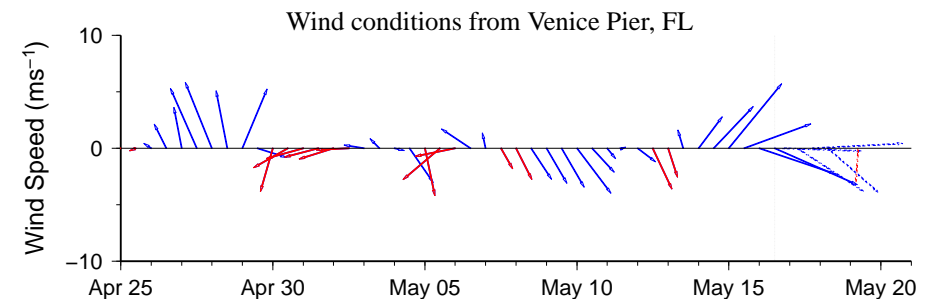
Conditions Report

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, May 22.

Analysis

There is currently no indication of a harmful algal bloom in southwest Florida, including the Florida Keys. Background concentrations of *Karenia brevis* were identified in one sample in Sarasota County (MML; 5/10) and one sample in Charlotte County (FWRI; 5/10). *K. brevis* was not identified in water samples collected elsewhere last week alongshore Pinellas to Monroe counties or offshore Pinellas, Manatee, and Lee counties or the Florida Keys (CCPCPD, FWRI, MML, SCHD; 5/7-13). Recent MODIS imagery is completely obscured by clouds both along- and offshore Southwest Florida. A large patch of discolored water reported ranging from ~5-15 miles offshore of Egmont Key in Manatee County has been confirmed to be a bloom of *Trichodesmium erythraeum*. No impacts associated with this bloom have been reported (FWRI; 5/13). Any elevated chlorophyll present at the coast is likely the result of non-toxic algal blooms that continue to be reported along portions of southwest Florida. Harmful algal bloom formation is not expected at the coast through Sunday, May 22.

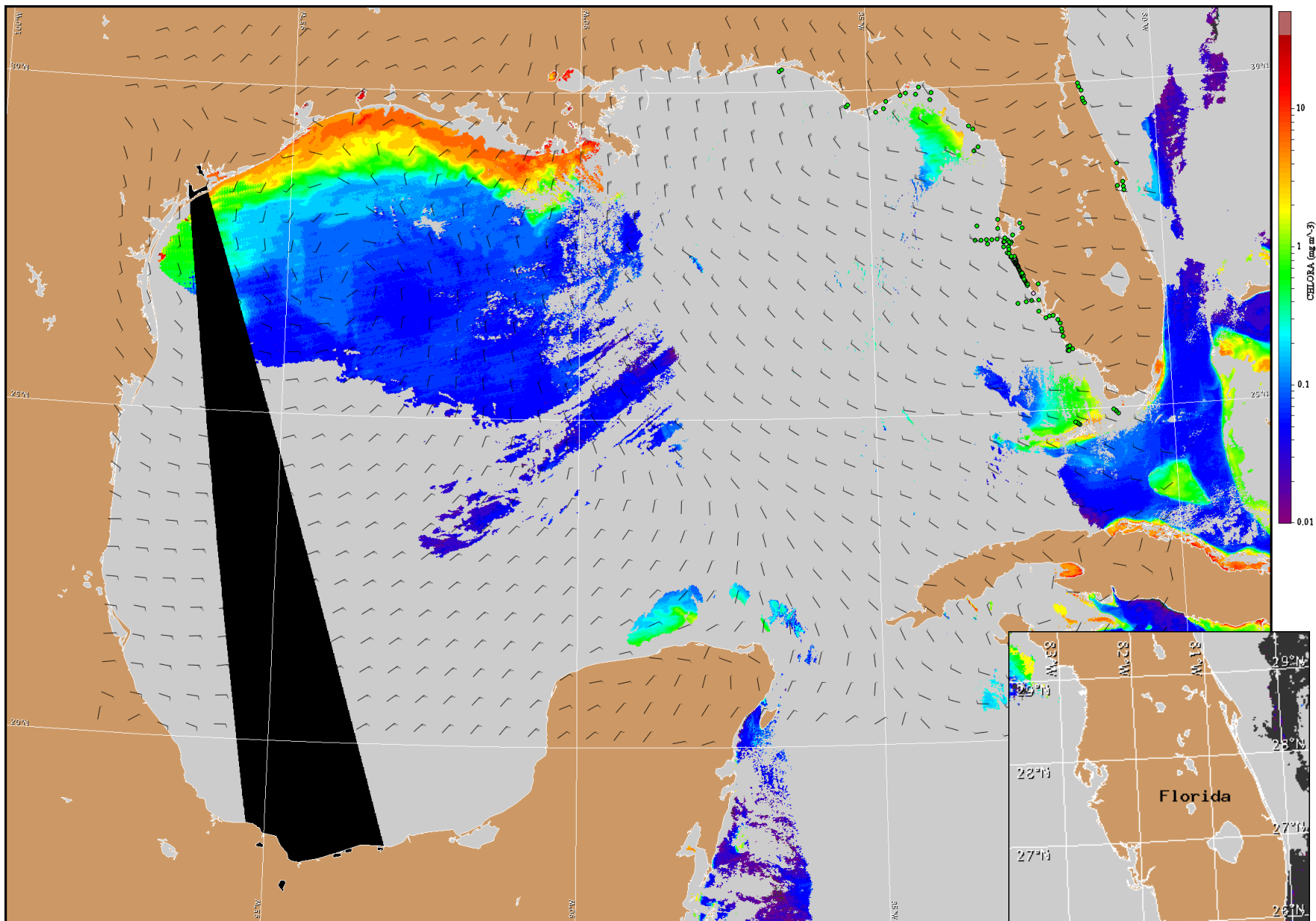
Derner, Urizar



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).

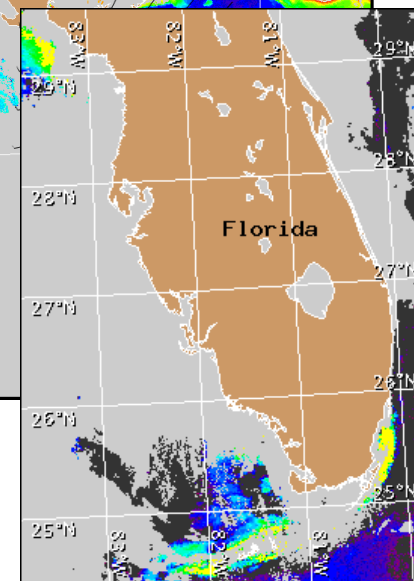
Wind Analysis

Southwest Florida: West winds (15-20kn, 8-10m/s) today through Tuesday. Northwest winds (10-15kn, 5-8m/s) Tuesday night. West winds (10-15kn) Wednesday. Variable winds (5-10kn, 3-5m/s) Thursday and Friday.



Satellite chlorophyll image and forecast winds for May 17, 2011 06Z with cell concentration sampling data from May 6 to 12 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).