



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

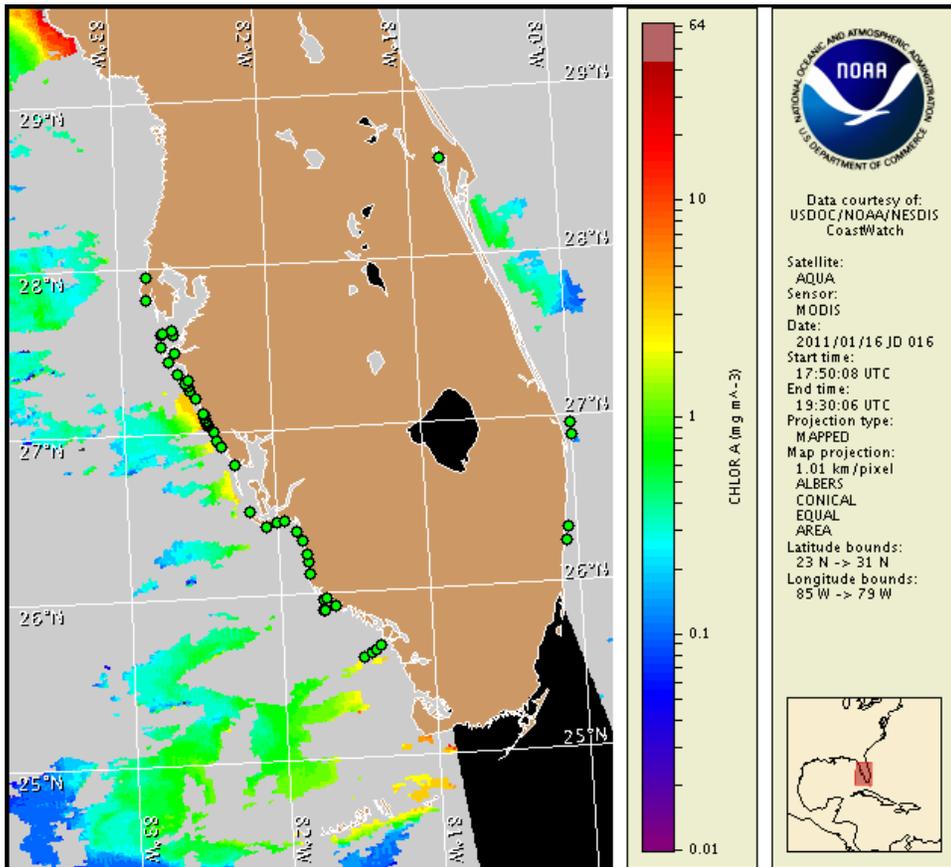
18 January 2011

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: January 10, 2011



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from January 8 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 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, January 23.

Analysis

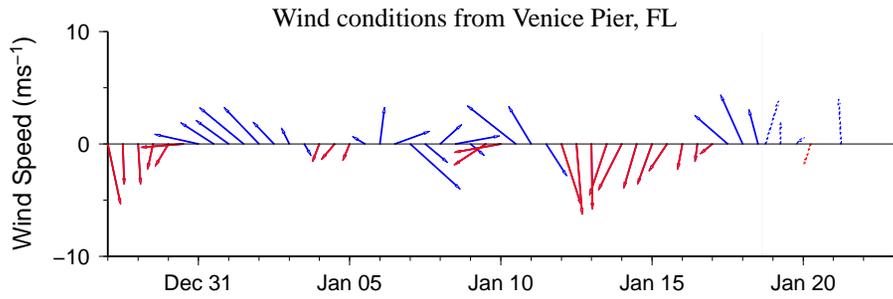
There is currently no indication of a harmful algal bloom in southwest Florida, including the Florida Keys. *Karenia brevis* was not identified in samples collected last week alongshore Pinellas, Manatee, Sarasota, Charlotte, Lee and Collier counties and offshore northern Monroe County; although, non-toxic mixed diatoms blooms continue to be reported along southwest Florida (FWRI, MML, SCHD; 1/10-12). Cloudy water was reported in central and southern Lee County (FWRI 1/12).

Due to persistent cloud cover over southwest Florida, it is difficult to analyze chlorophyll levels in the most recent satellite imagery. The last bulletin (issued Jan. 10) reported elevated chlorophyll levels from Pinellas to Collier County, and as of Jan. 14, they had dissipated. In the Florida Keys region, however, cloud cover does not permit any analysis.

Wind forecasts do not indicate a potential for bloom formation today through Saturday, Jan. 22.

Note: SeaWiFS imagery is currently unavailable, MODIS imagery is shown at left and on page 3.

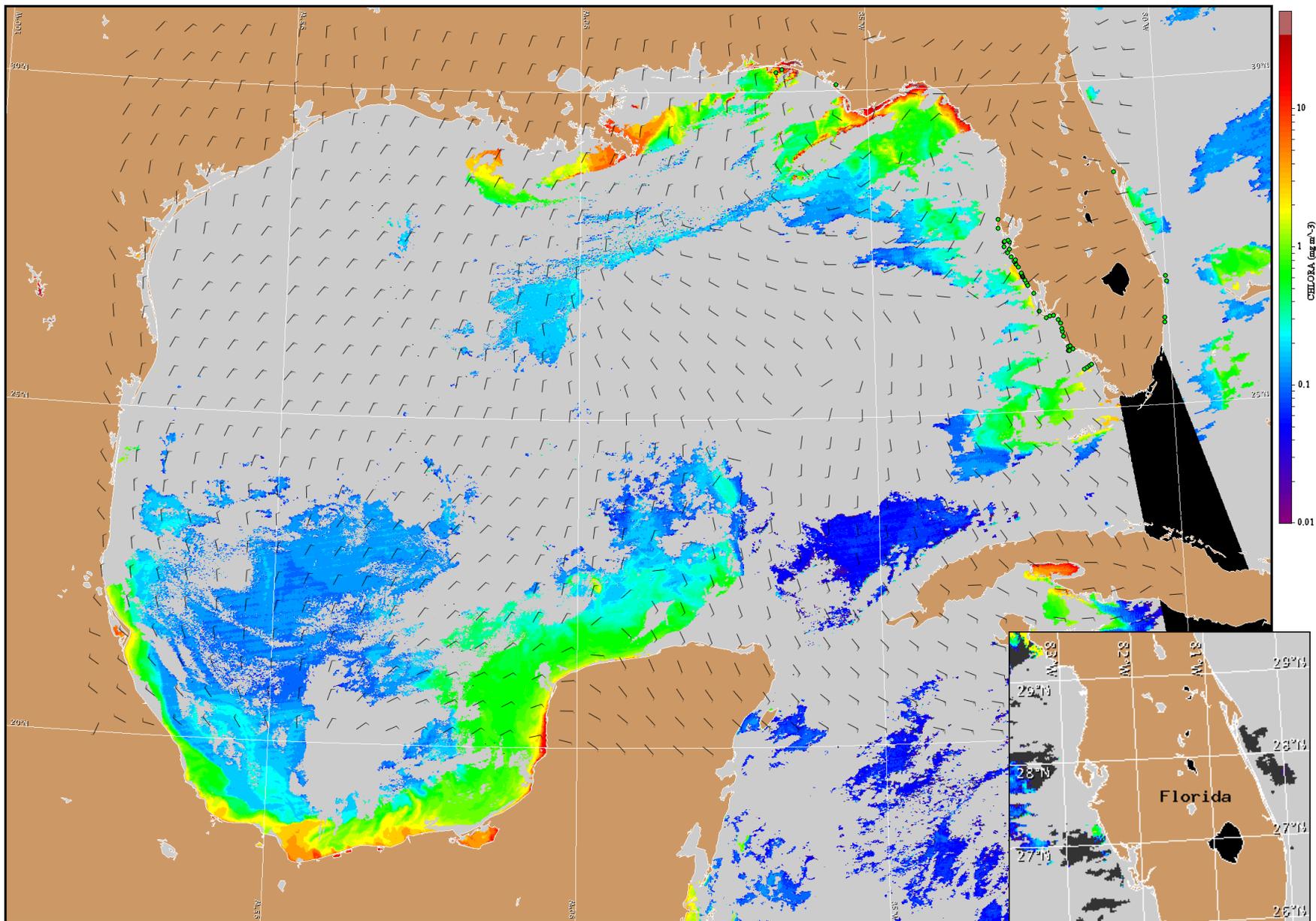
Urizar, Burrows, Kavanaugh



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).

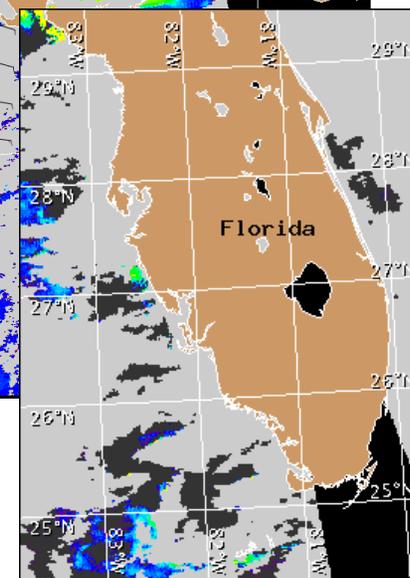
Wind Analysis

Southwest Florida: Southwesterly winds (5-10 kn, 3-5 m/s) today. Northwesterly winds (5-10 kn) tomorrow and variable winds (5 kn) tomorrow night. Southeasterly to southerly winds (5-10 kn) Thursday. Southerly to westerly winds (10-15 kn, 5-8 m/s) Friday. Northwesterly winds (10 kn) Saturday.



Satellite chlorophyll image and forecast winds for January 19, 2011 12Z with Cell concentration sampling data from January 8 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 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).