

Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

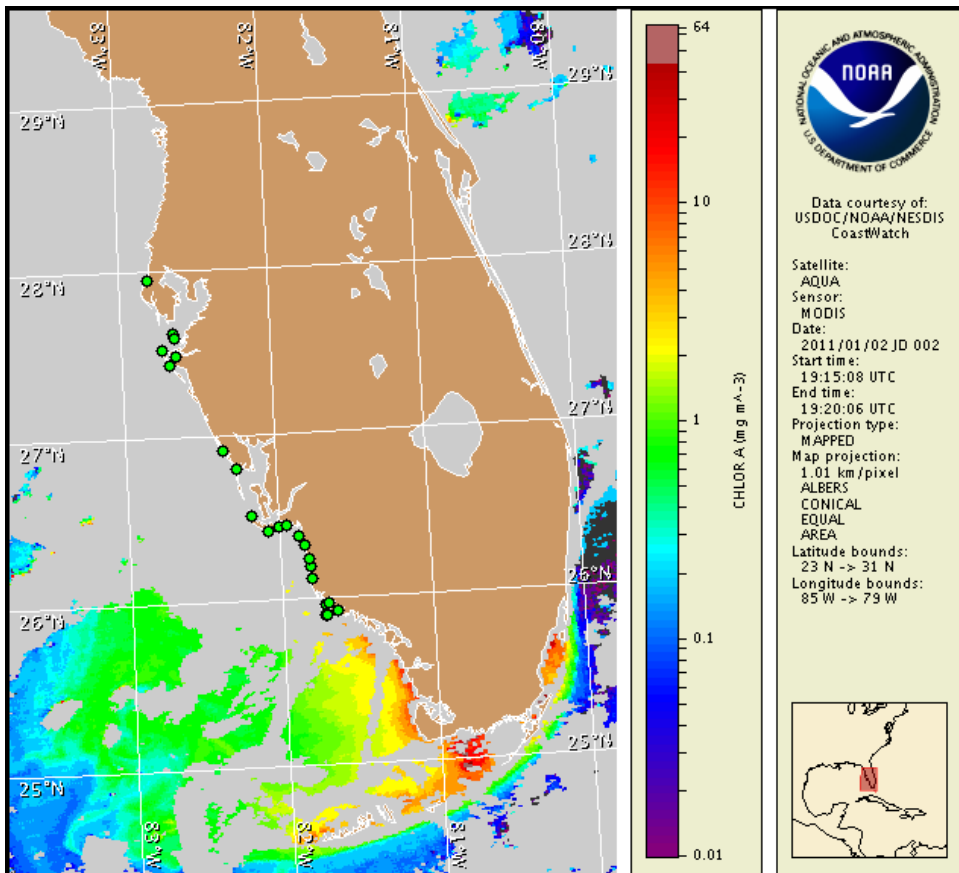
3 January 2011

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: December 27, 2010



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from December 27 to 29 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

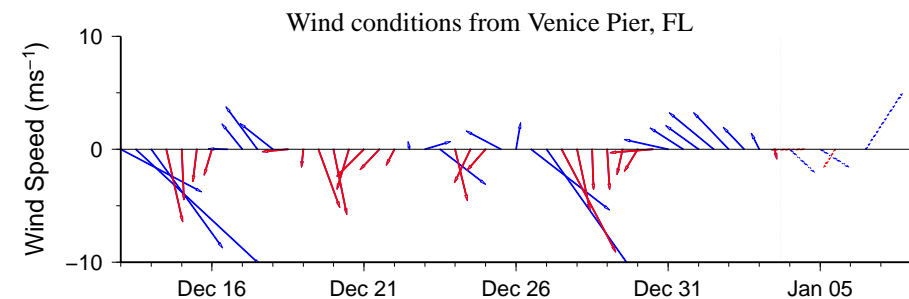
There is currently no indication of a harmful algal bloom at the coast in southwest Florida, including the Florida Keys. No impacts are expected alongshore southwest Florida today through Sunday, January 9.

Analysis

There is currently no indication of a harmful algal bloom alongshore southwest Florida, including the Florida Keys. *Karenia brevis* was not present in samples collected last week alongshore southwest Florida from Pinellas County to Collier County (FWRI, MML, CCPCPD; 12/27-12/30). A non-harmful diatom bloom has been detected in Charlotte and Lee Counties (FWRI; 12/28). Cloudy imagery over the last week limits analysis; however, overall visible imagery does not indicate bloom development. In addition, variable wind conditions through Friday will most likely not promote bloom formation this week.

Note: SeaWiFS imagery is presently unavailable for analysis, MODIS imagery is shown at left and on page 2.

~Fenstermacher, Derner, Kavanaugh

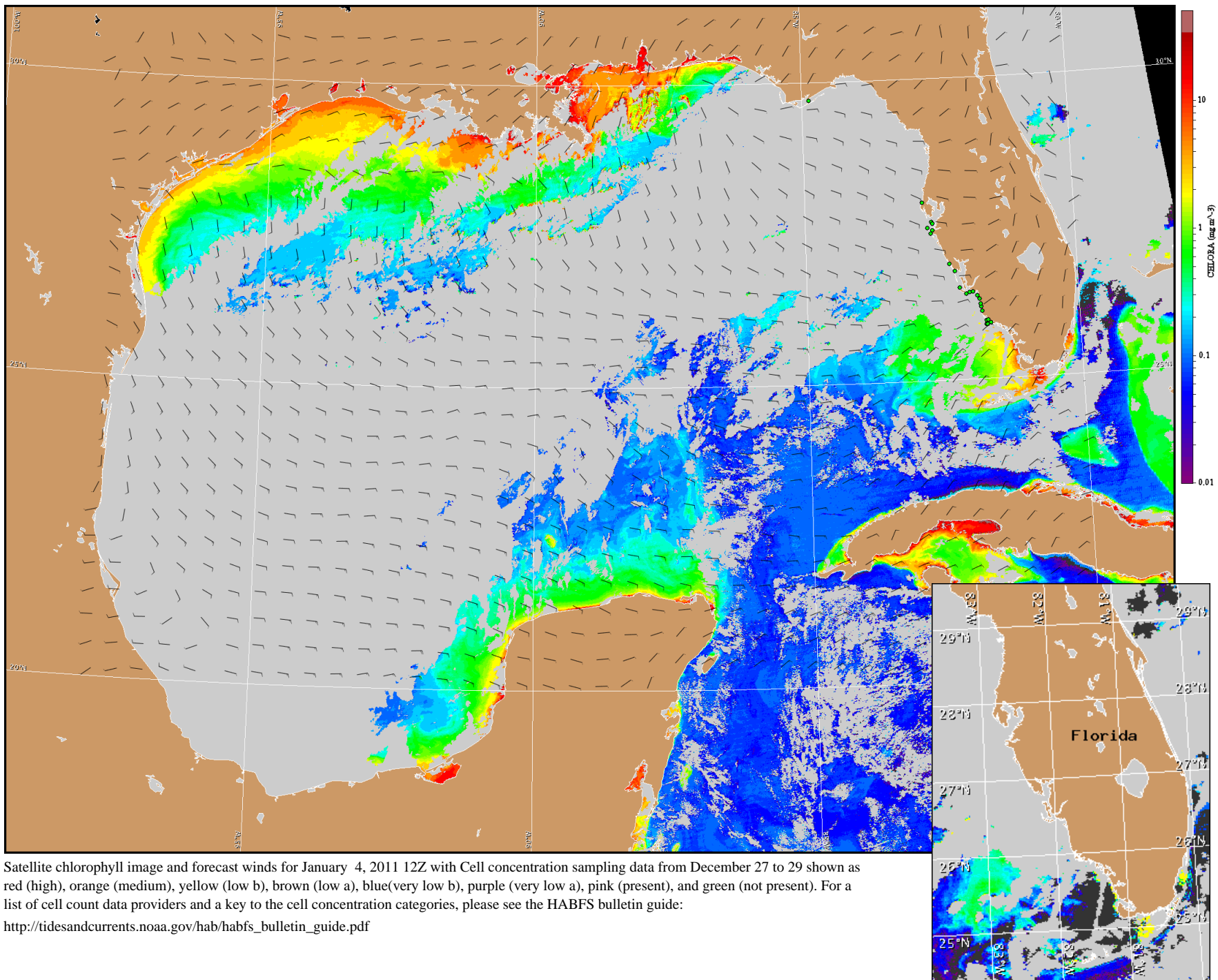


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.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

Wind Analysis

SWFL: Northerlies today with variable winds on Tuesday (5-10 kn; 3-5 m/s). Southeasterlies becoming southwesterlies on Wednesday (5-10 kn). Northwesterlies on Thursday and Friday (10-15 kn; 5-8 m/s).

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>



Satellite chlorophyll image and forecast winds for January 4, 2011 12Z with Cell concentration sampling data from December 27 to 29 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).