



# Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

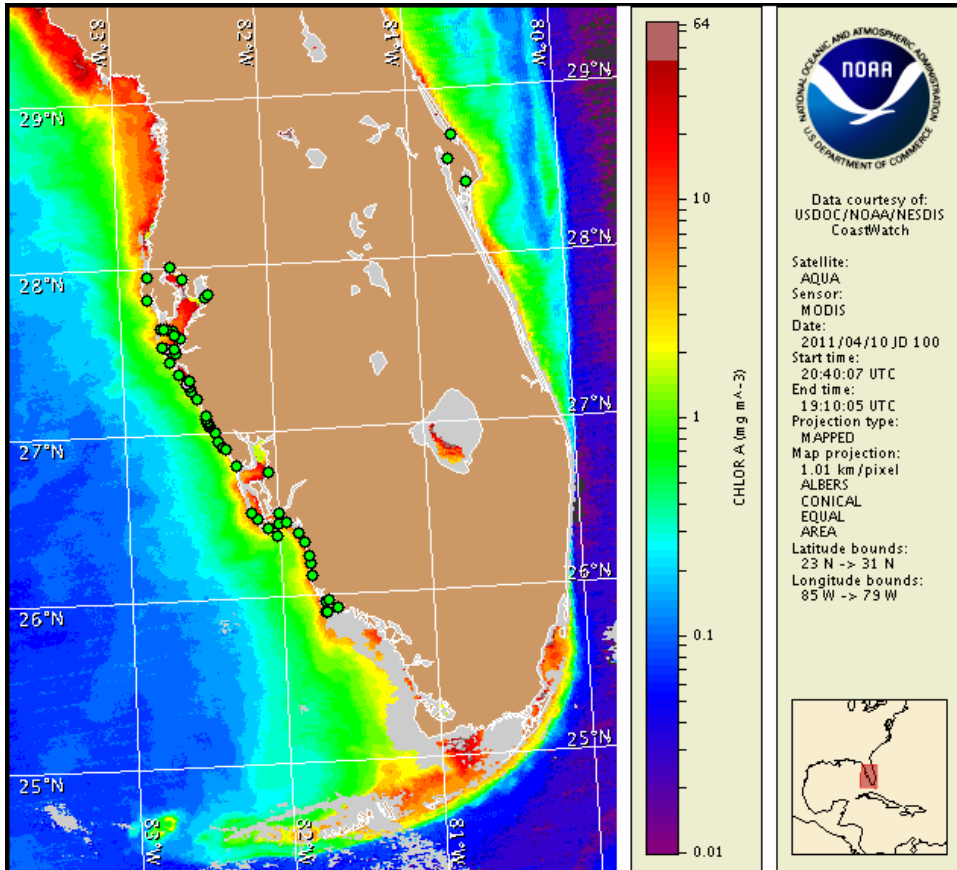
Monday, 11 April 2011

NOAA Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, April 4, 2011



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from April 1 to 8 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/habofs\\_bulletin\\_guide.pdf](http://tidesandcurrents.noaa.gov/hab/habofs_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, April 17.

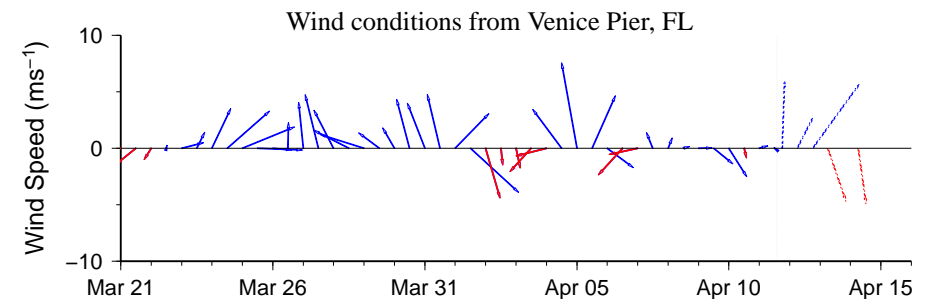
## Analysis

There is currently no indication of a harmful algal bloom in southwest Florida, including the Florida Keys. Multiple 'very low' concentrations of *Karenia brevis* were identified in the Sarasota Bay system last week (FWRI 4/4-4/8). Also last week, background concentrations of *K. brevis* were identified in Manatee County (Lower Tampa Bay), alongshore Sarasota County (North Lido Beach), in the Sarasota Bay system (southeast of Whale Key), and Charlotte County (northeast of Gasparilla Island) (FWRI, MML 4/4-4/7). *K. brevis* was not identified in samples taken elsewhere alongshore southwest Florida from Pinellas to Monroe County (FWRI, MML, SCHD 4/4-4/8).

Recent MODIS imagery (4/10) indicates that chlorophyll levels alongshore southwest Florida from Pinellas to Monroe County, including the Florida Keys, remain elevated. Chlorophyll levels range from 2-6  $\mu\text{g/L}$ . Elevated chlorophyll levels at the coast are likely the result of non-toxic algal blooms that continue to be reported along much of southwest Florida.

Harmful bloom formation is not expected at the coast today through Sunday, April 17.

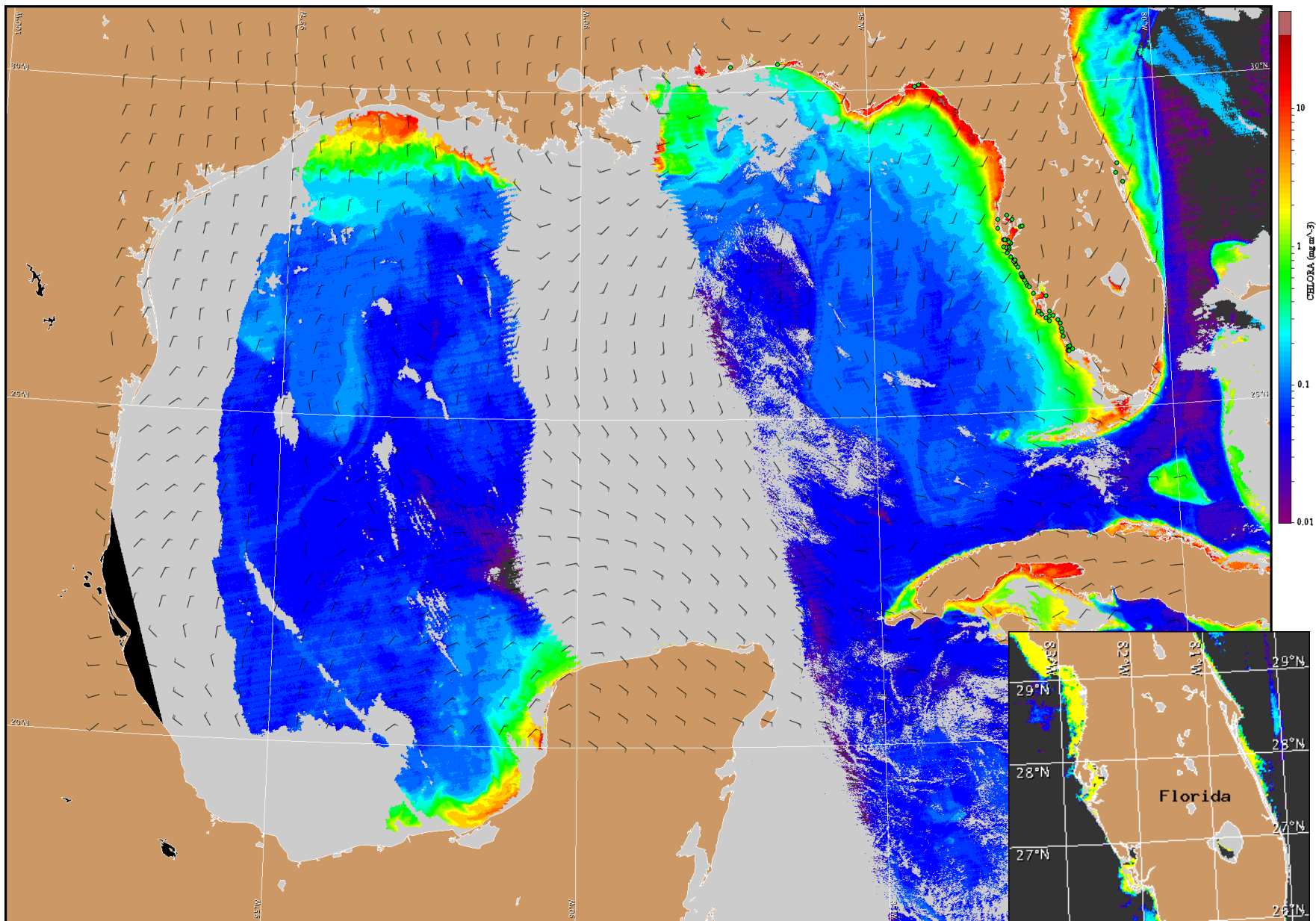
## Urizar, Burrows



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).

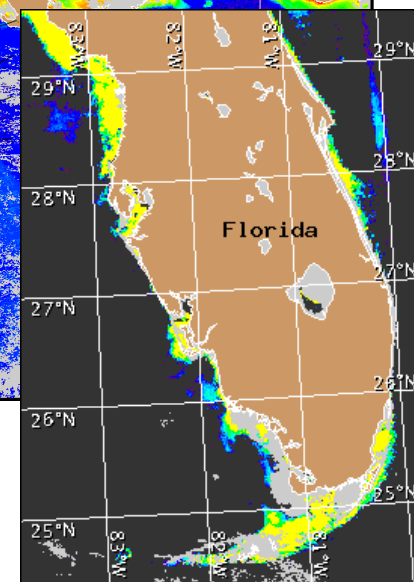
## Wind Analysis

Southwest Florida: Southwesterly winds (10 kn, 5 m/s) today. Northwesterly to northerly winds Tuesday (15 kn, 8 m/s). Northerly to northeasterly winds (10 kn) Wednesday. Easterly winds Thursday (10 kn). Southeasterly winds (10 kn) Friday and southwesterly winds in the late morning and afternoon.



Satellite chlorophyll image and forecast winds for April 12, 2011 06Z with cell concentration sampling data from April 1 to 8 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).