



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

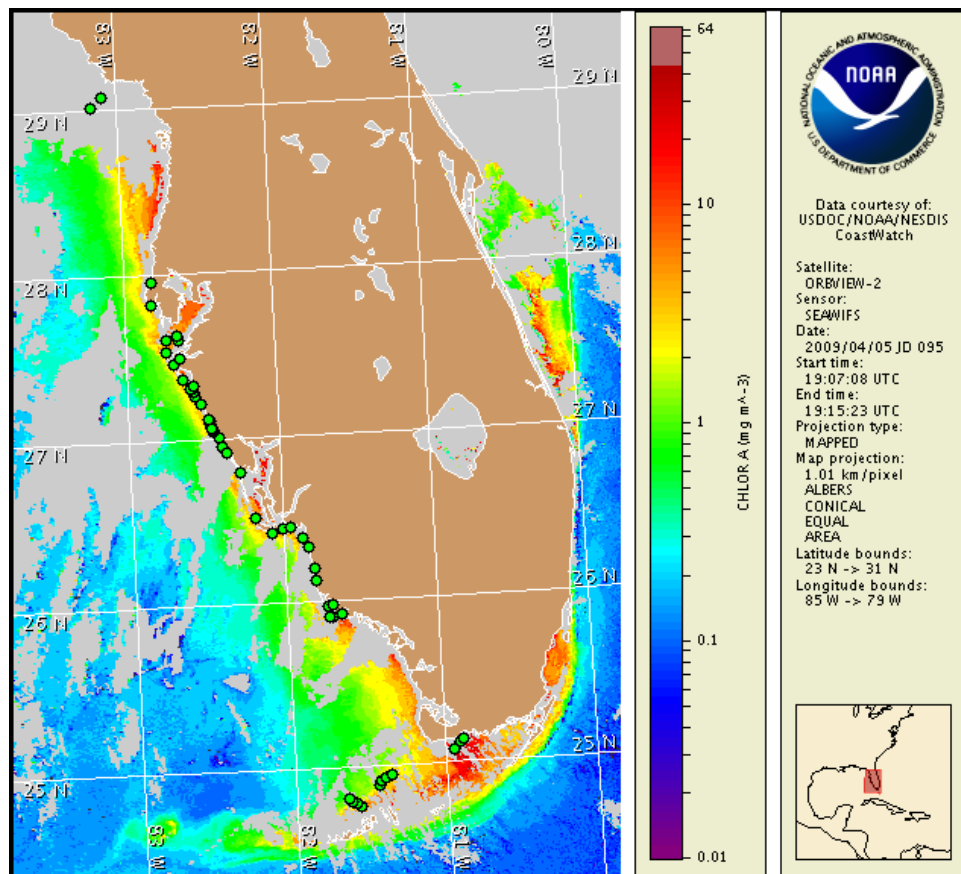
6 April 2009

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: March 30, 2009



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from March 30 to April 1 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, April 12.

Analysis

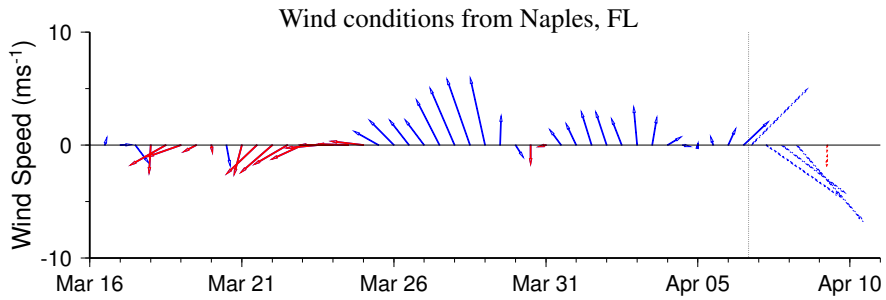
There is currently no indication of a harmful algal bloom at the coast in southwest Florida including the Florida Keys. No *Karenia brevis* was identified in samples collected last week alongshore southwest Florida from Pinellas to Monroe Counties (3/31-4/3; FWRI, MML, SCHD). Recent satellite imagery has been cloudy along the coastline and limits analysis. However, patches of elevated chlorophyll have been visible alongshore from Sarasota to Collier Counties over the past few days and are likely due to non-harmful algae (3/31-4/3; FWRI, MML, SCHD). The small patch of elevated chlorophyll offshore southern Collier County reported in the previous bulletin is also partially obscured by clouds, however chlorophyll levels have decreased to $<2 \mu\text{g/L}$ in the surrounding area.

Bloom formation alongshore southwest Florida is not expected today through Sunday, April 12.

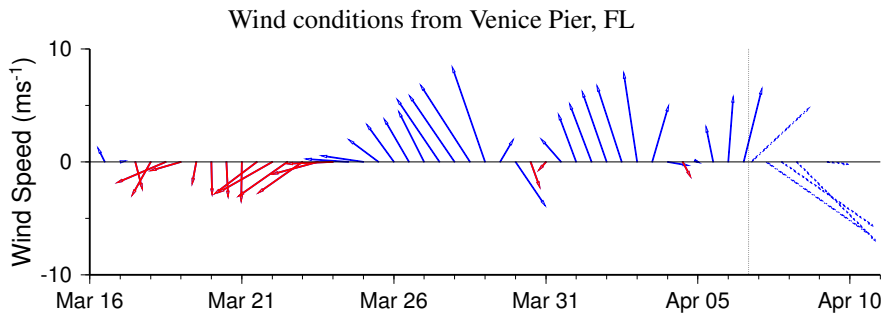
Fenstermacher, Fisher

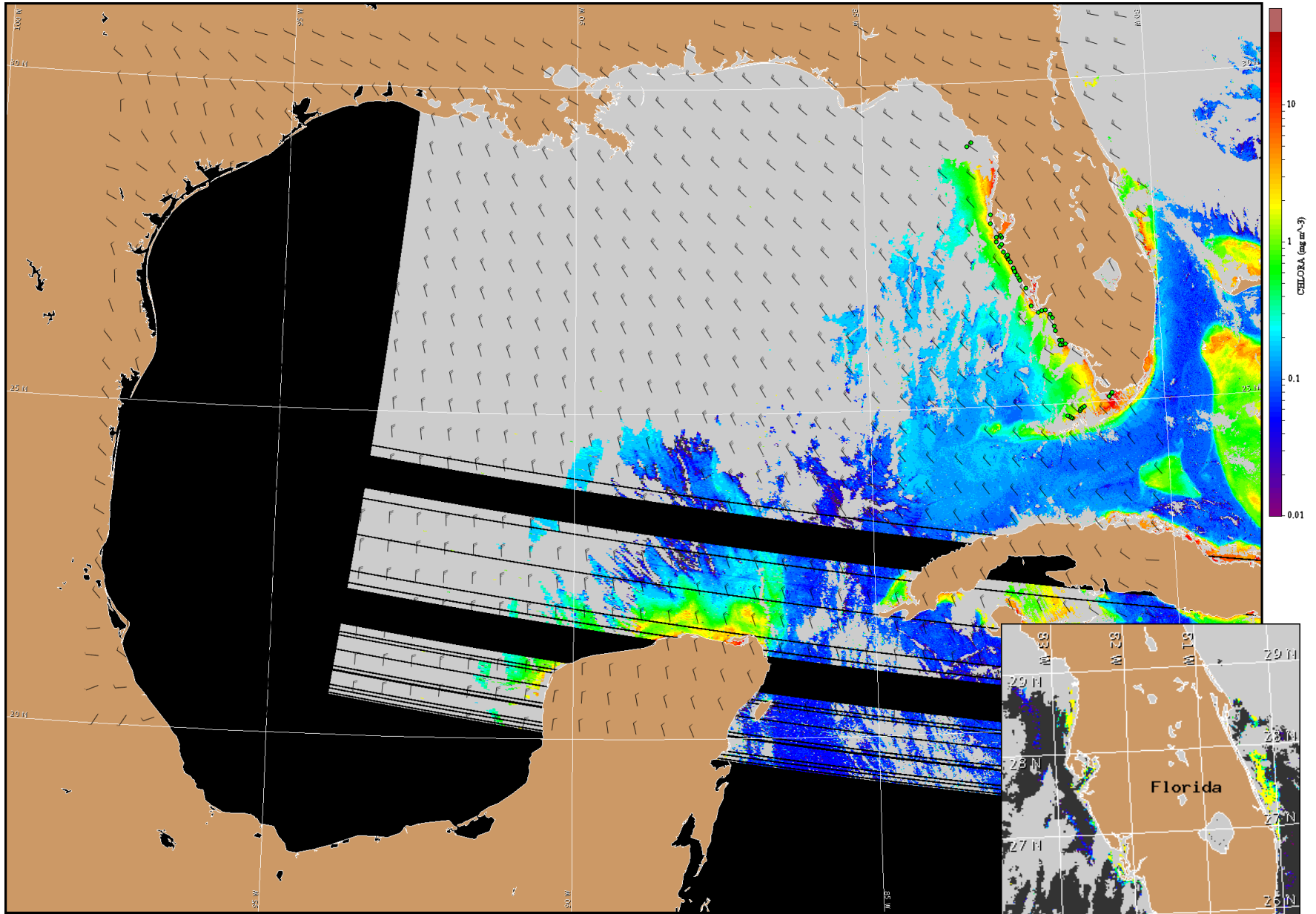
Wind Analysis

SW Florida: Strong southwest to westerlies today and northwesterlies tonight through Tuesday (15-25 kn; 8-13 m/s). Northeasterlies to westerlies on Wednesday followed by southeasterlies to easterlies Wednesday night (10-20 kn; 5-10 m/s). Southeasterlies on Thursday (10-20 kn; 5-10 m/s). Southerlies on Friday (20 kn; 10 m/s).

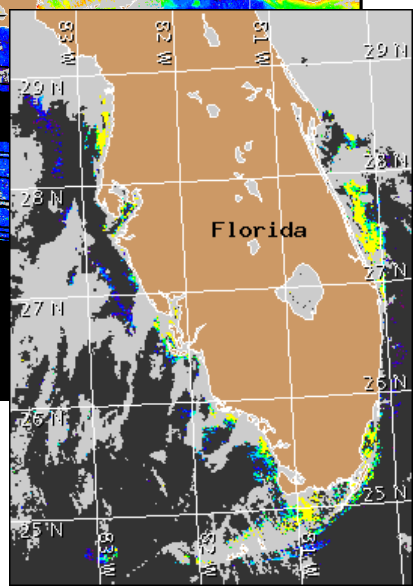


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.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





Satellite chlorophyll image and forecast winds for April 7, 2009 12Z with Cell concentration sampling data from March 30 to April 1 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).