



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

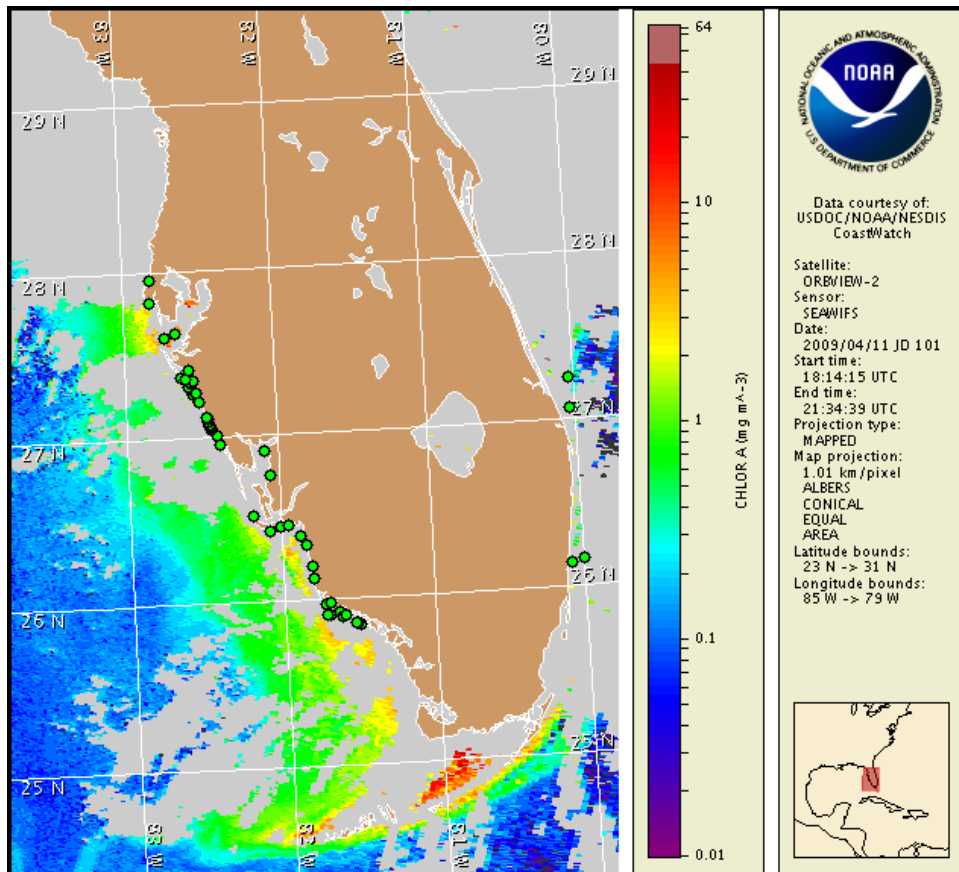
13 April 2009

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: April 6, 2009



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from April 4 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 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 19.

Analysis

There is currently no indication of a harmful algal bloom at the coast in southwest Florida. No *Karenia brevis* was identified in samples collected last week alongshore southwest Florida from Pinellas to Collier Counties (4/6-10; FWRI, SCHD, MML).

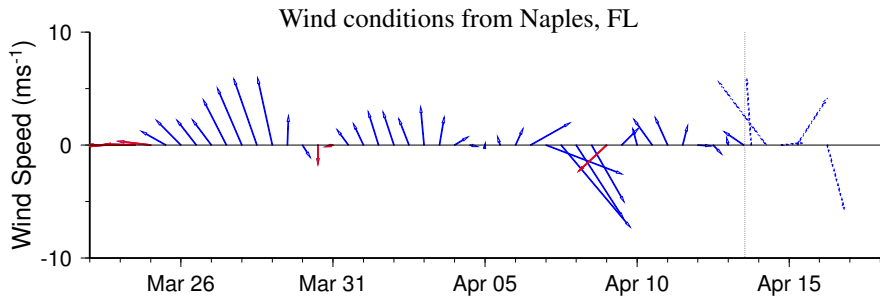
A resuspension event was visible in satellite imagery along the entire southwest Florida coast on 4/9, following a 2-day period of strong northwest winds. Several patches of elevated chlorophyll continued to be visible along the coast in imagery as of 4/11 and are likely attributable to this event and the confirmed presence of various non-harmful algae species (FWRI, 4/6-8). An elevated chlorophyll feature ($3-4 \mu\text{g/L}$) continued to appear in imagery near shore and offshore Cape Romano, southern Collier County, on 4/10 and remained partially visible offshore to $25^{\circ}50'14''\text{N}$ $81^{\circ}46'3''\text{W}$ on 4/11 amongst clouds. Elevated chlorophyll features in this region may not be indicative of the presence of harmful algae, however sampling is recommended in this identified area due to the feature's more unusual offshore appearance and extent over the past few weeks. Elevated concentrations of non-harmful algae have been confirmed alongshore Collier County in the past week (FWRI, 4/6). North to northeast transport of this feature is possible through Tuesday, 4/14, followed by south to southwest transport through Friday, 4/17.

Harmful bloom formation alongshore southwest Florida is not expected today through Sunday, April 19.

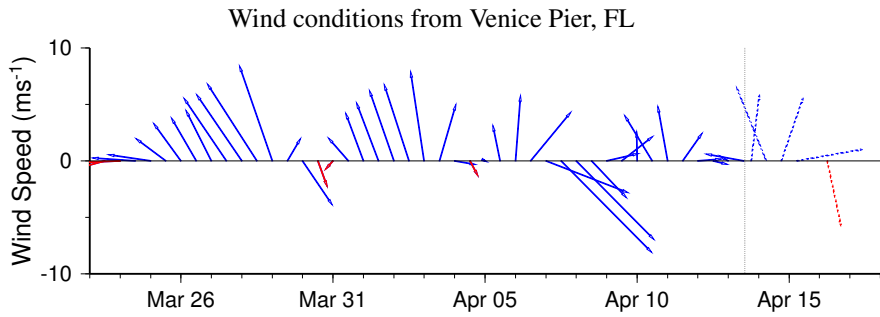
~Fisher, Lindley

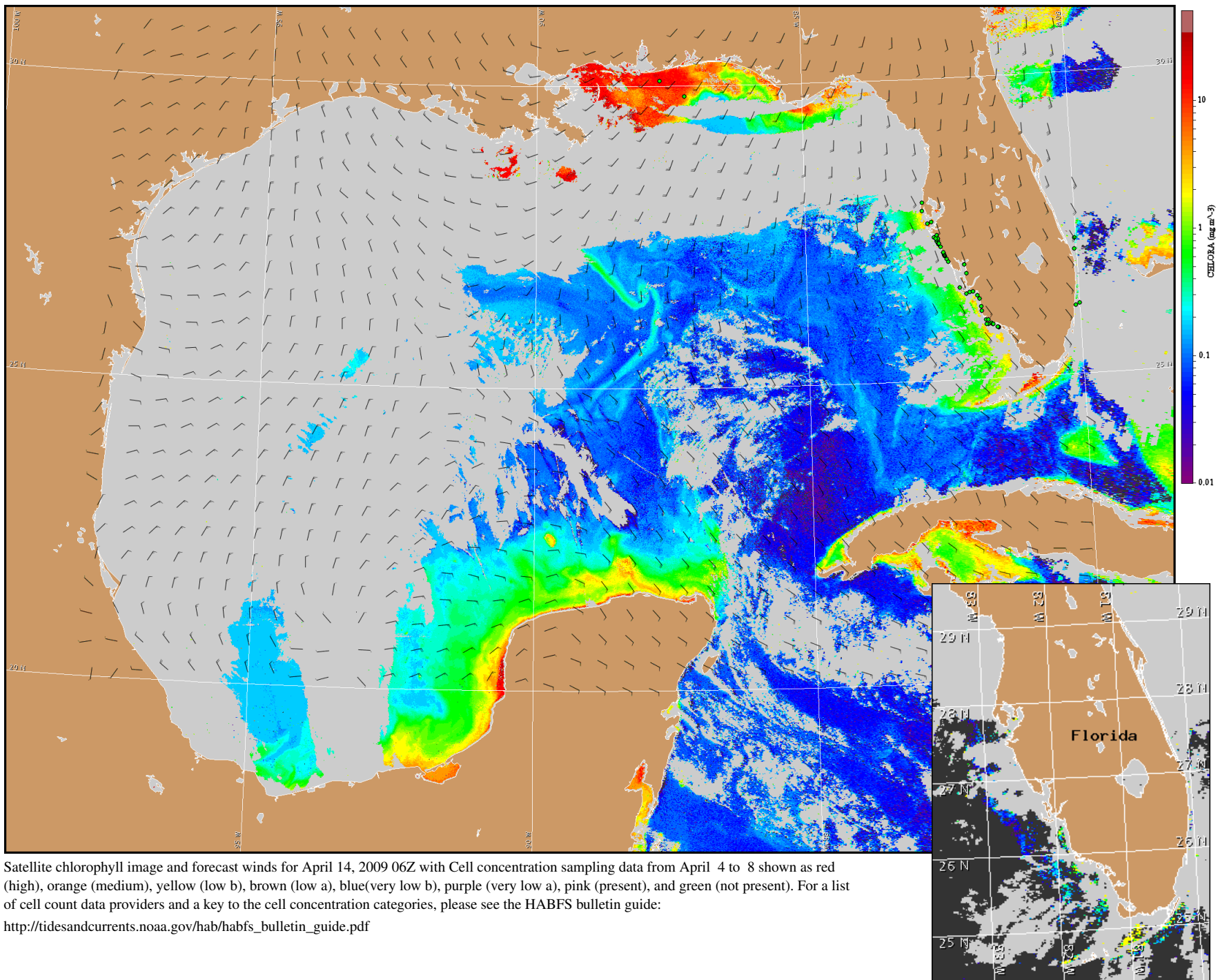
Wind Analysis

SW Florida: Southeast to south winds today (10-15kn, 5-8m/s). South winds Tuesday (10-20kn, 5-10m/s), becoming southwest to west in the afternoon (15-20kn, 8-10m/s). West winds Tuesday night (5-10kn). Northwest winds Wednesday (5-10kn, 3-5m/s). North winds Thursday (5-10kn). Northeast winds Friday (10-15kn).



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 14, 2009 06Z with Cell concentration sampling data from April 4 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 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).