



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

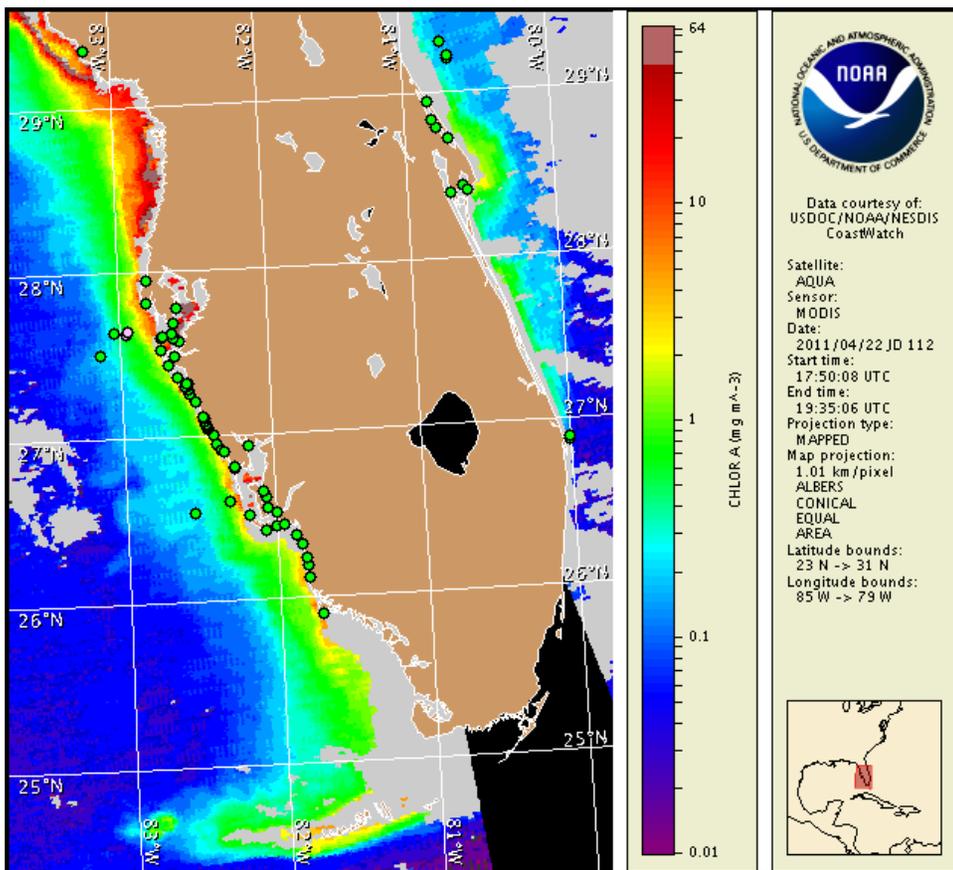
Monday, 25 April 2011

NOAA Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, April 18, 2011



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from April 15 to 21 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

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

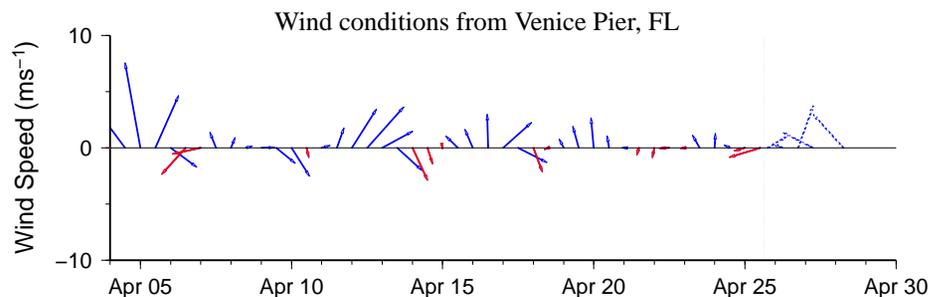
There is currently no indication of a harmful algal bloom at the coast in southwest Florida, including the Florida Keys. No impacts are expected alongshore southwest Florida today through Sunday, May 1.

Analysis

There is currently no indication of a harmful algal bloom in southwest Florida, including the Florida Keys. No *K. brevis* was identified last week alongshore southwest Florida from Pinellas to Collier County or offshore northern Lee County (FWRI, MML, SCHD, 4/17-4/21).

Recent MODIS imagery (4/22-4/24) is partially obscured by clouds from Collier to Monroe County. Elevated chlorophyll (2 to $10 \mu\text{g/L}$) remains visible in the imagery, stretching within 1-5 miles of the coast alongshore southwest Florida from Pinellas to southern Collier County. Elevated chlorophyll levels at the coast are likely the result of non-toxic algal blooms that continue to be reported by FWRI alongshore several counties in southwest Florida. Harmful algal bloom formation is not expected at the coast through Sunday, May 1.

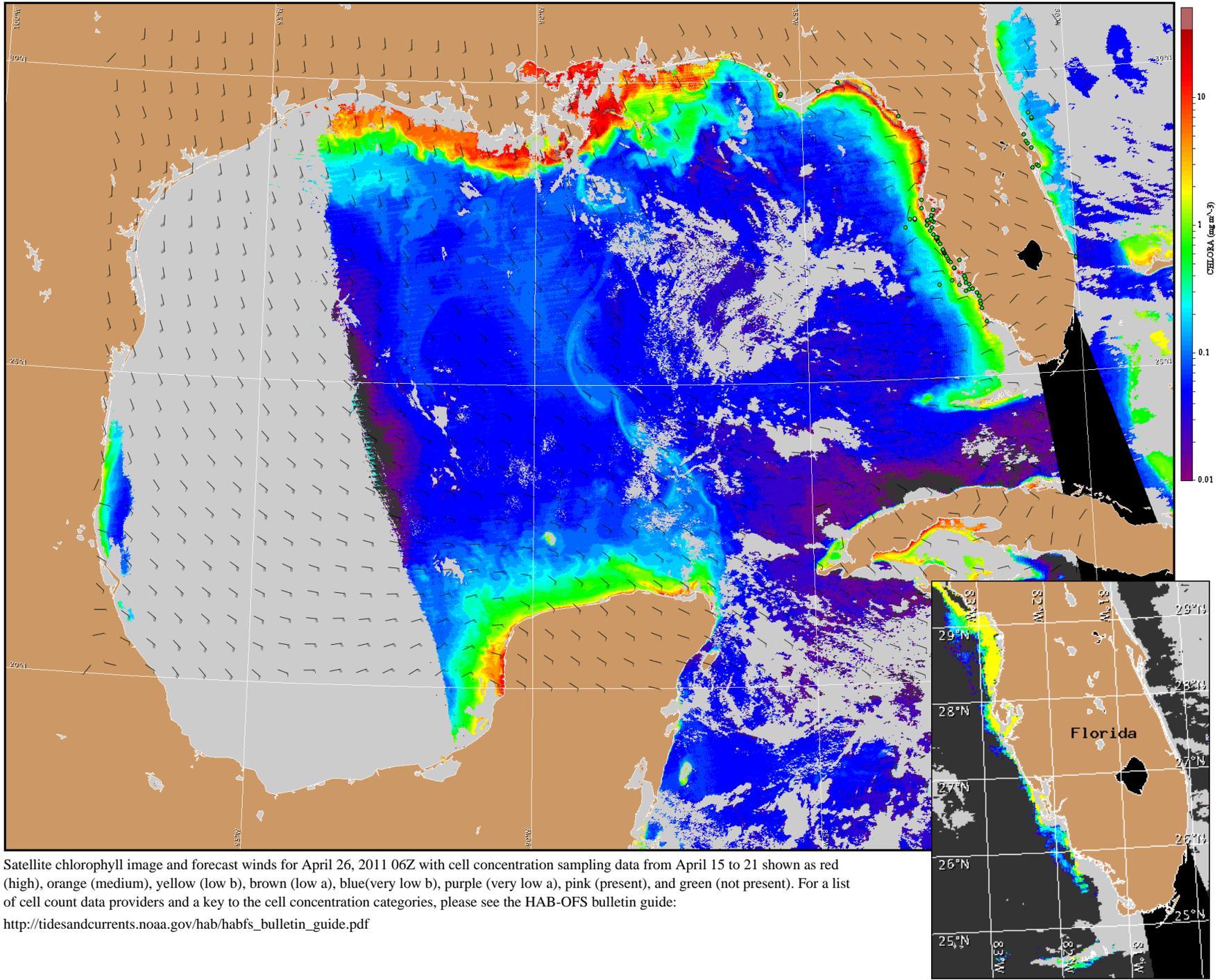
Kavanaugh, Fisher



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: Southeast winds (10 kn, 5 m/s) today becoming north winds this afternoon. North to southeast winds (5-15 kn, 3-8 m/s) tonight. Southwest winds (10 kn) Tuesday shifting southeast (15 kn, 8 m/s) Tuesday evening. South winds (15 kn) Wednesday. West winds (15 kn) Thursday becoming north winds Thursday evening through Friday.



Satellite chlorophyll image and forecast winds for April 26, 2011 06Z with cell concentration sampling data from April 15 to 21 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).