



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

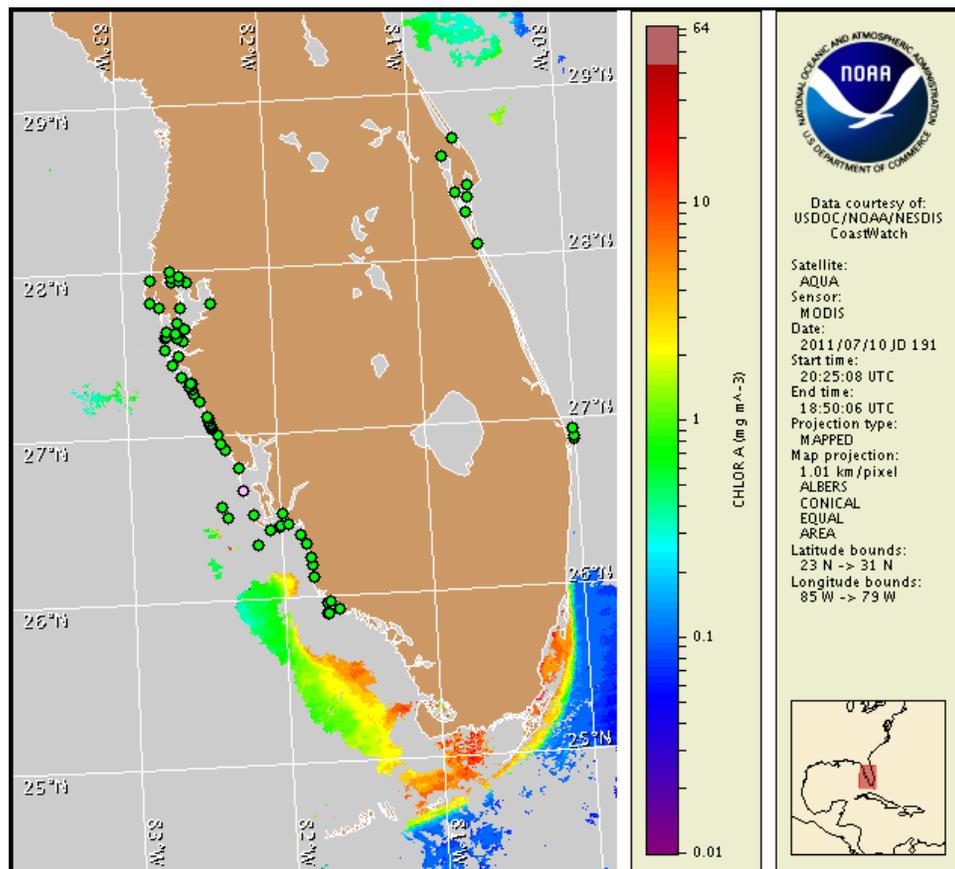
Monday, 11 July 2011

NOAA Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Tuesday, July 5, 2011



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from July 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/habfs_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, July 17.

Analysis

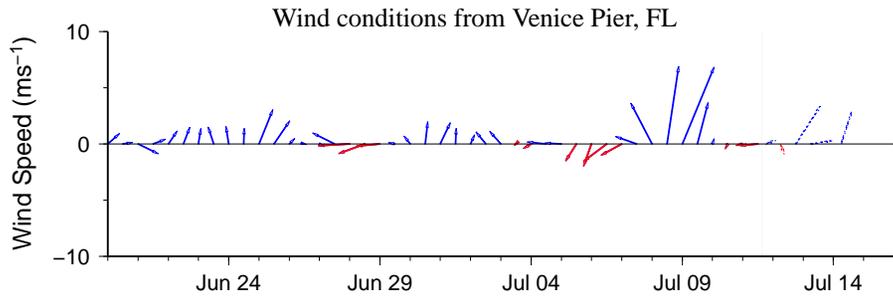
There is currently no indication of a harmful algal bloom in southwest Florida, including the Florida Keys. *Karenia brevis* was not present in water samples collected last week alongshore Pinellas to Charlotte and Collier counties, and offshore Lee County (FWRI, MML, SCHD; 7/4-7/8). A background concentration of *K. brevis* was detected at Cayo State Park, Lee County (FWRI, 7/5).

Recent MODIS imagery is obscured by clouds both alongshore and offshore southwest Florida. Patches of elevated chlorophyll ($2-8 \mu\text{g/L}$) are visible offshore Collier and Monroe counties. Any elevated chlorophyll at the coast is likely the result of non-toxic algal blooms that continue to be reported in several counties in southwest Florida.

The Lee County Health Department continues to issue warnings to avoid contact with the Caloosahatchee River and other fresh water systems due to the presence of potentially harmful cyanobacteria concentrations (LCHD, 7/11).

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

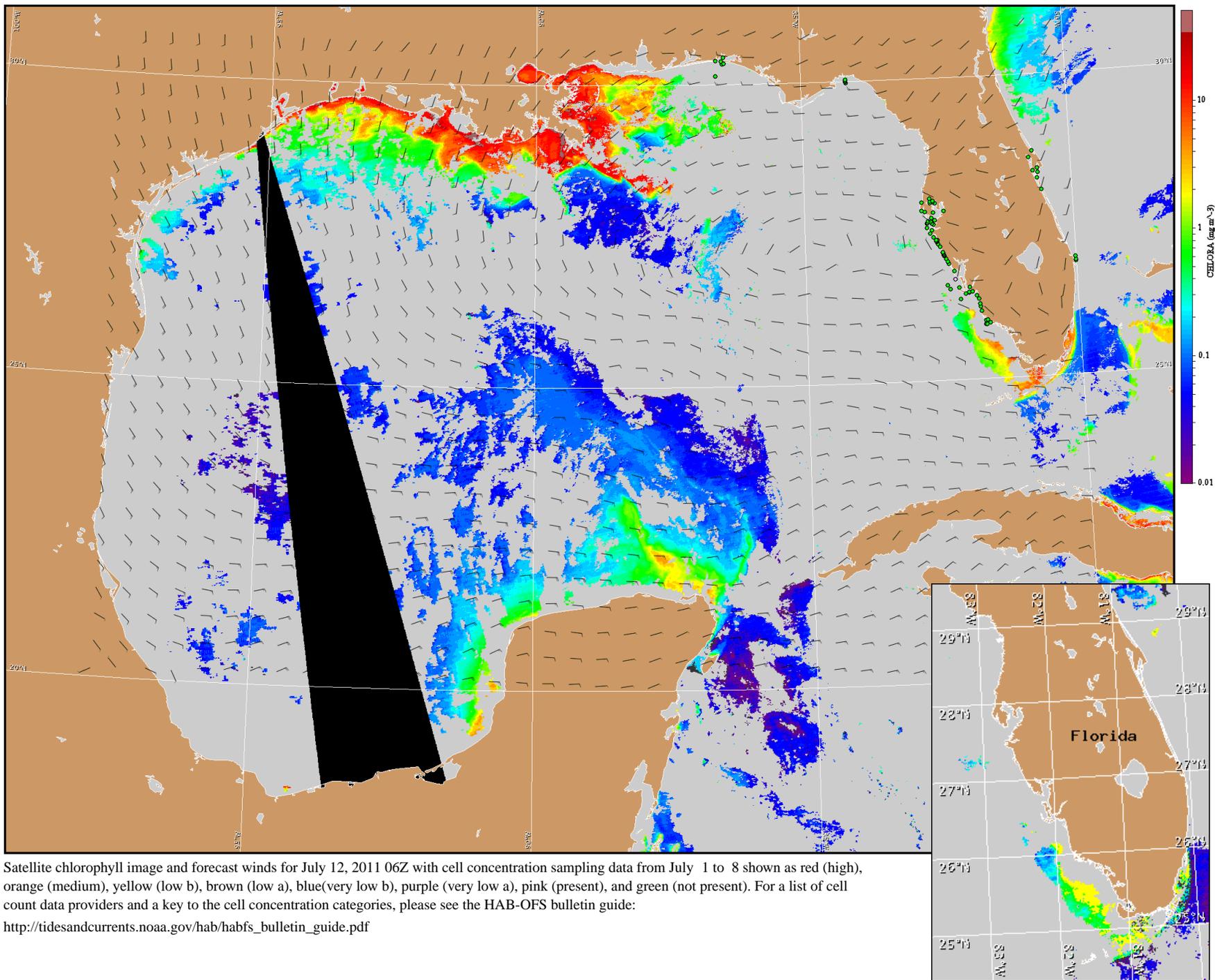
-Burrows, Yang, Kavanaugh



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

Southeast winds today (5-10 kn, 3-5 m/s) becoming west (10 kn) then south tonight (5 kn). Tuesday southeast winds (5 kn) becoming west (5 kn) then south (5 kn) Tuesday night. Wednesday southwest winds (5-10 kn) becoming southerly (5 kn) Wednesday night. Thursday southwest winds (10 kn) becoming southeast (5 kn) Thursday night. Friday southeast winds (5 kn) becoming southwest in the afternoon.



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