



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

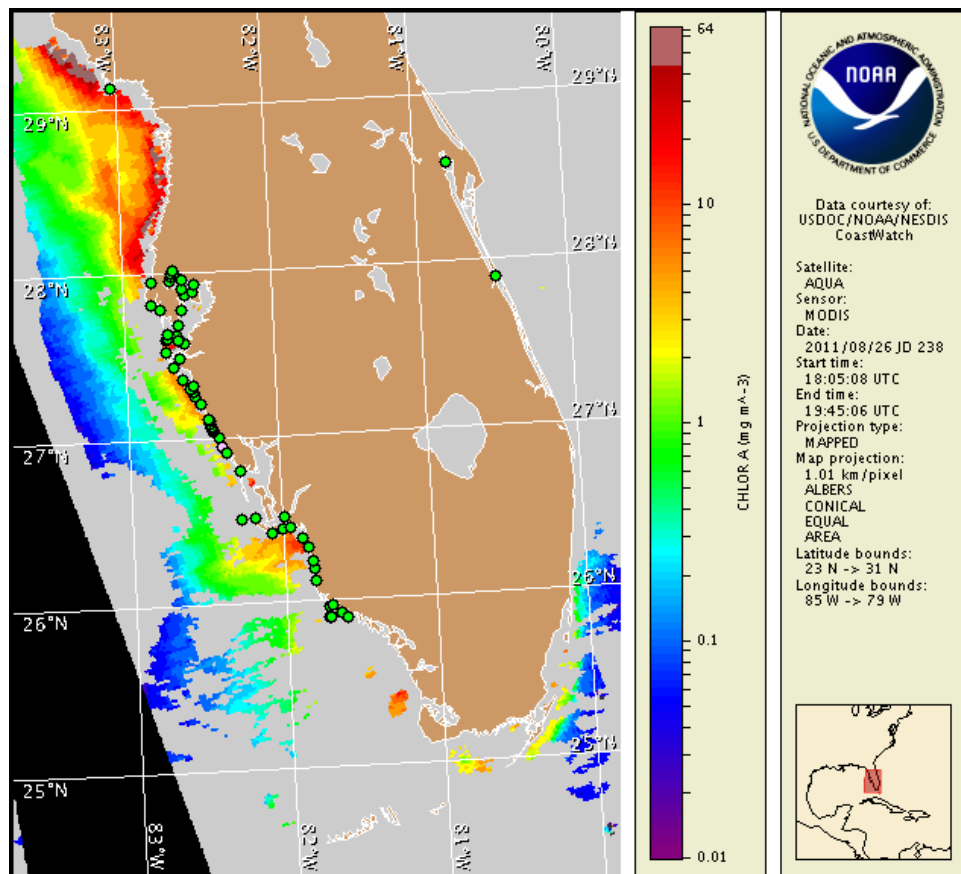
Monday, 29 August 2011

NOAA Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, August 22, 2011



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from August 19 to 24 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 Monday, September 5.

Analysis

****Due to the upcoming Federal Holiday, the next bulletin will be issued on Tuesday, September 6.****

There is currently no indication of a harmful algal bloom in southwest Florida, including the Florida Keys. Background concentrations of *Karenia brevis* were identified early last week alongshore Sarasota County (Blind Pass; SCHD, FWRI; 8/22). No additional *K. brevis* was identified in water samples collected last week alongshore Pinellas to Collier counties or offshore Lee County (FWRI, MML, SCHD; 8/21-8/26).

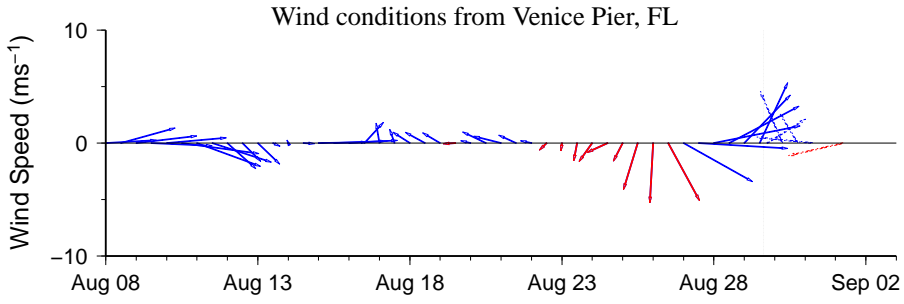
Recent MODIS imagery is predominantly obscured by clouds alongshore much of southwest Florida and the Florida Keys, limiting analysis. Imagery on 8/26 (shown left) continued to show elevated chlorophyll (3-7 $\mu\text{g/L}$) alongshore northern Sarasota County to the Venice region, with weaker chlorophyll levels ($\sim 2 \mu\text{g/L}$) extending ~ 17 miles offshore Sarasota County from Little Sarasota Bay to Venice. Elevated to high chlorophyll (4-11 $\mu\text{g/L}$) also remained visible on 8/26 approximately 1.5 to 40 miles offshore southern Lee County to the Naples region of northern Collier County. Maximum chlorophyll levels within this geographic range are visible between southern Estero Island and Vanderbilt Beach where FWRI has reported the presence of mixed diatom blooms (8/22). Elevated chlorophyll features currently visible at the coast are not indicative of *K. brevis* blooms, and are likely the result of non-toxic algal blooms that continue to be reported alongshore several counties in southwest Florida (FWRI; 8/22-24).

Easterly to northeasterly forecasted winds beginning Tuesday night will increase the potential for bloom formation later this week.

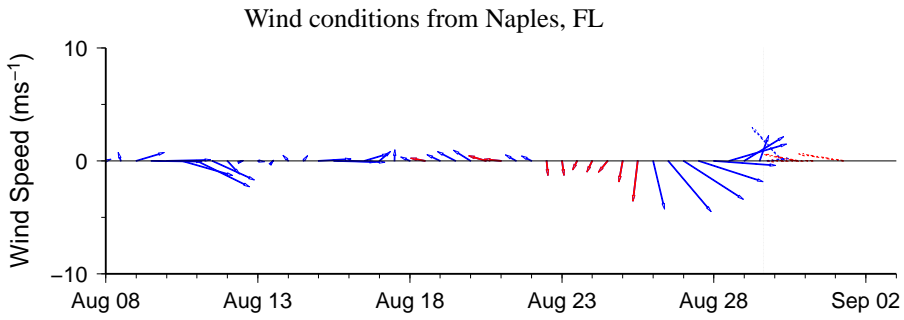
-Fisher, Yang

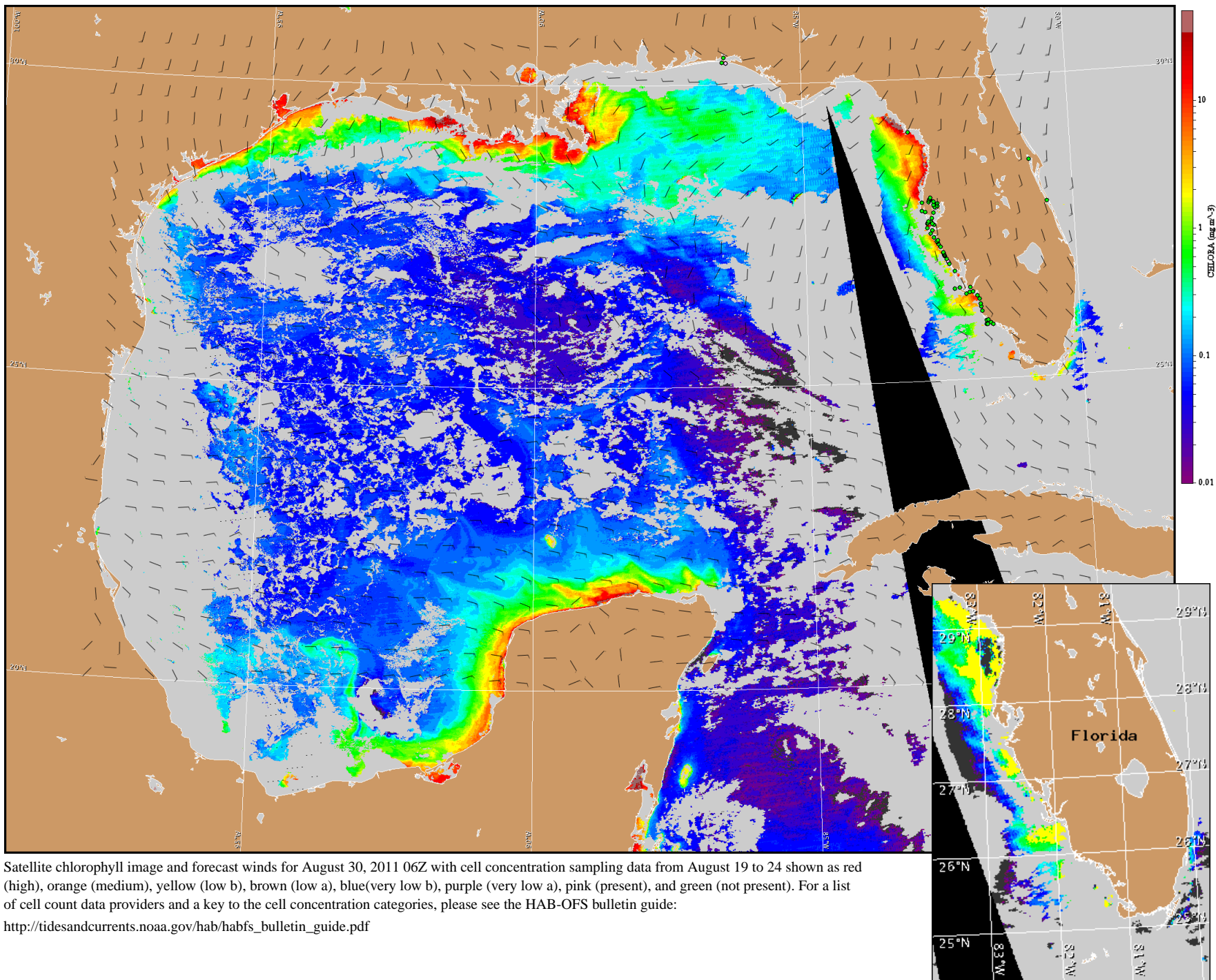
Wind Analysis

Southwest Florida: Southeast winds (10-15kn, 5-8m/s) today, shifting southeast tonight (5kn, 3m/s). South winds (10kn, 5m/s) Tuesday, becoming west in the afternoon. East winds (10kn, 5m/s) Tuesday night through Wednesday night. Northeast winds (10kn, 5m/s) Thursday, becoming east Thursday night. Northeast winds Friday (10kn, 5m/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 August 30, 2011 06Z with cell concentration sampling data from August 19 to 24 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).