



# Gulf of Mexico Harmful Algal Bloom Bulletin

Region: South Florida

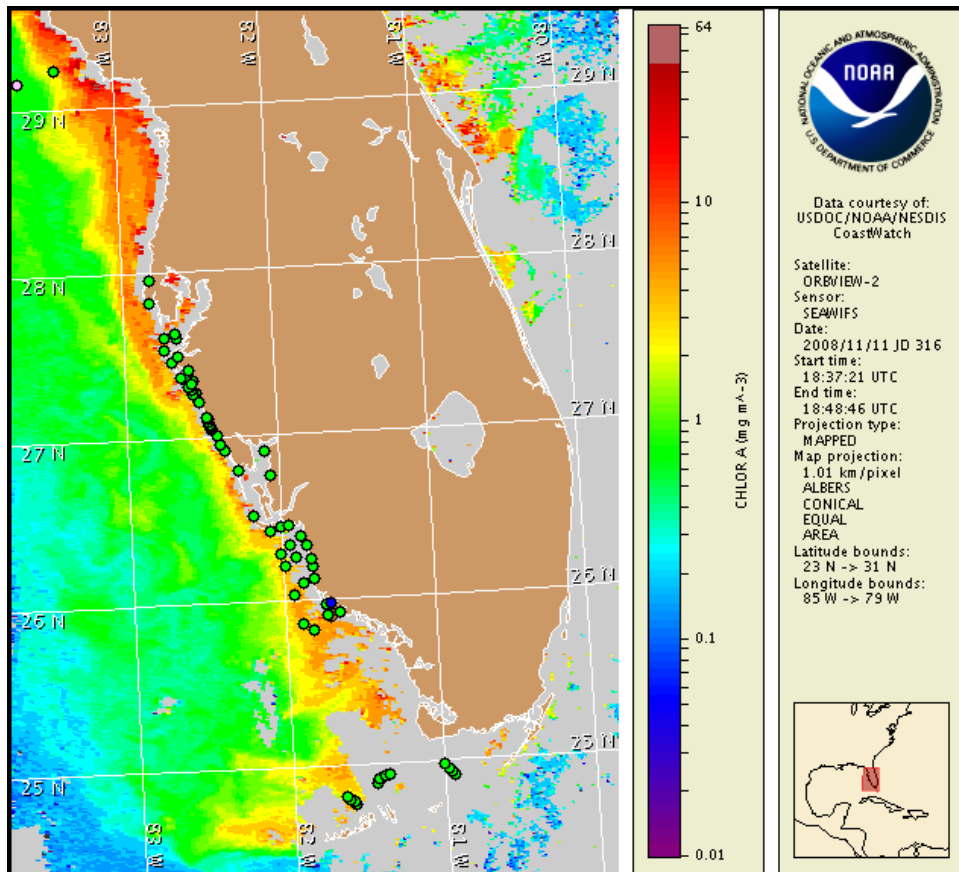
13 November 2008

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: November 10, 2008



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from November 3 to 12 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](http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf)

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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

A harmful algal bloom has been identified in central Collier County. Patchy low impacts are possible today through Saturday with patchy very low impacts possible on Sunday and Monday. No impacts are expected elsewhere in southwest Florida today through Monday, November 17.

## Analysis

*Karenia brevis* has been identified in concentrations up to Lowa in central Collier County, Present at New Pass, northern Sarasota County and Present offshore of Levy County (11/3-7, FWRI). Since the last bulletin, satellite imagery (11/11) indicates the elevated chlorophyll patches previously located alongshore and offshore of the Collier County coast may have transported south. Patchy, elongated slightly elevated chlorophyll (~2µg/L) is approximately 25-35 miles offshore of Collier County (northern extent 25°42'22"N 82°5'14"W and southern extent 25°23'36"N 81°48'46"W).

There is an elongated patch of slightly elevated chlorophyll (<2µg/L) approximately 70-88 miles offshore of Levy, near the Present sample (northern extent 29°26'9"N 83°48'34"W and southern extent 28°47'17"N 83°48'57"W). We will continue to monitor these features.

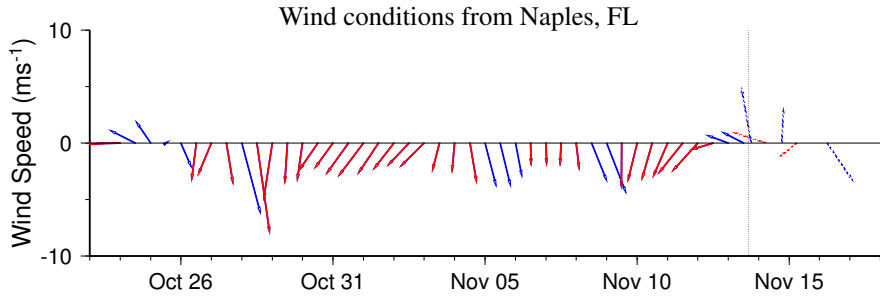
In the past few days, chlorophyll levels remain elevated, but have decreased (2-5µg/L) nearshore of Manatee and northern Sarasota Counties.

Variable winds through Monday may maintain bloom location.

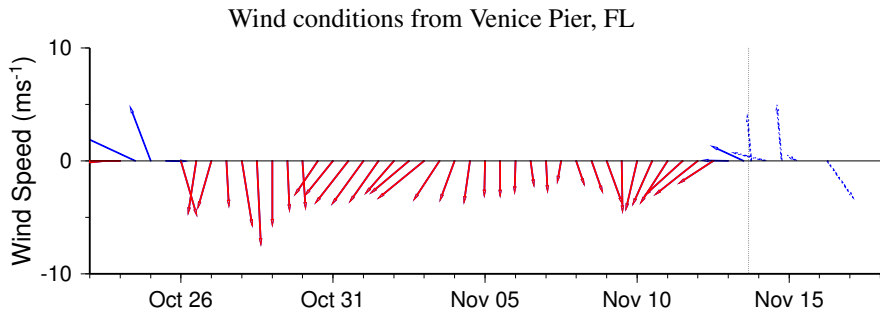
~Fenstermacher, Urizar

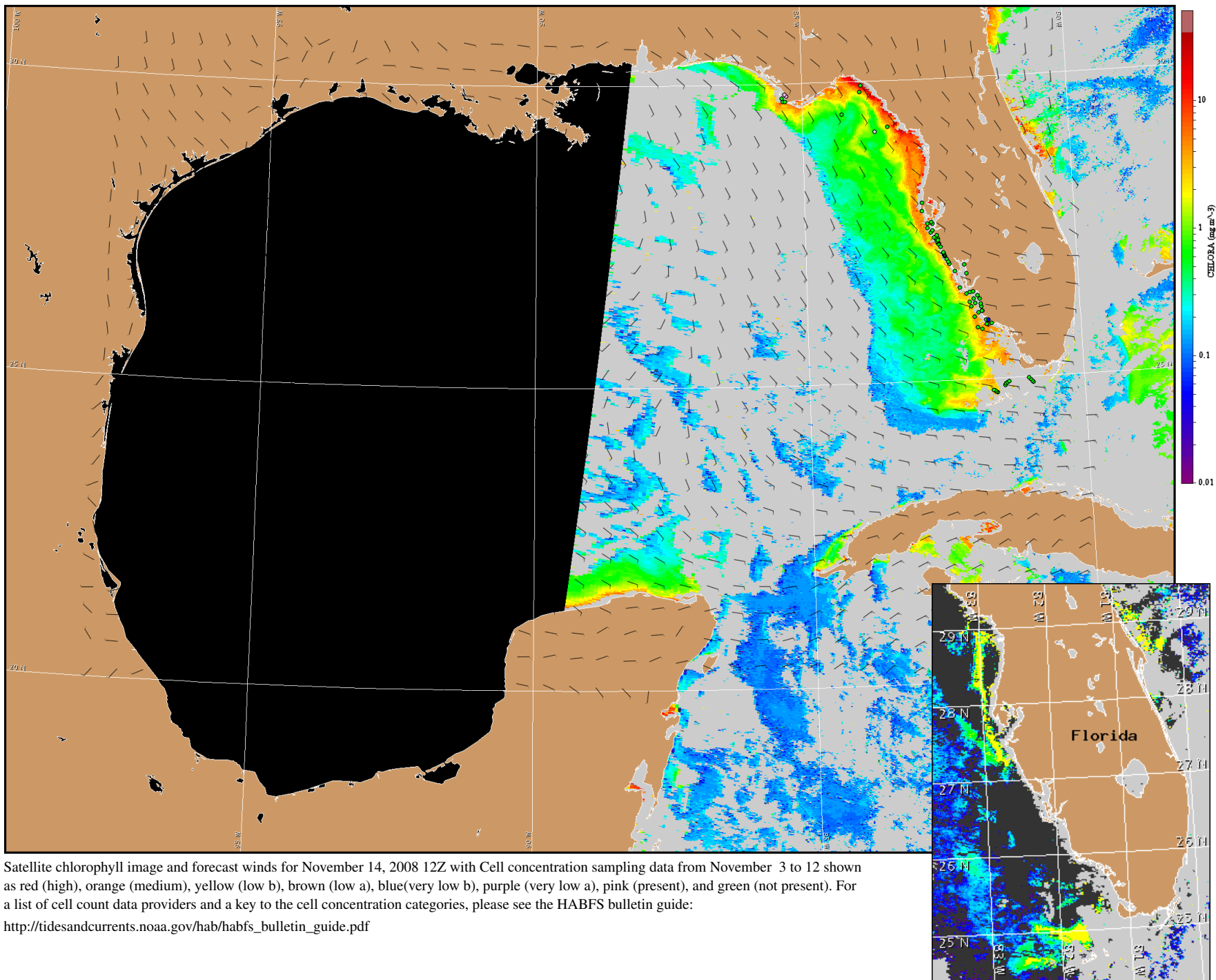
## Wind Analysis

SW Florida: Southeasterlies today through Friday (5-10 kn; 3-5 m/s). Southerlies clocking to northwesterlies on Saturday (5-20 kn; 3-10 m/s) followed by northerlies Sunday and Monday (10-15 kn; 5-8 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 November 14, 2008 12Z with Cell concentration sampling data from November 3 to 12 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).