



# Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

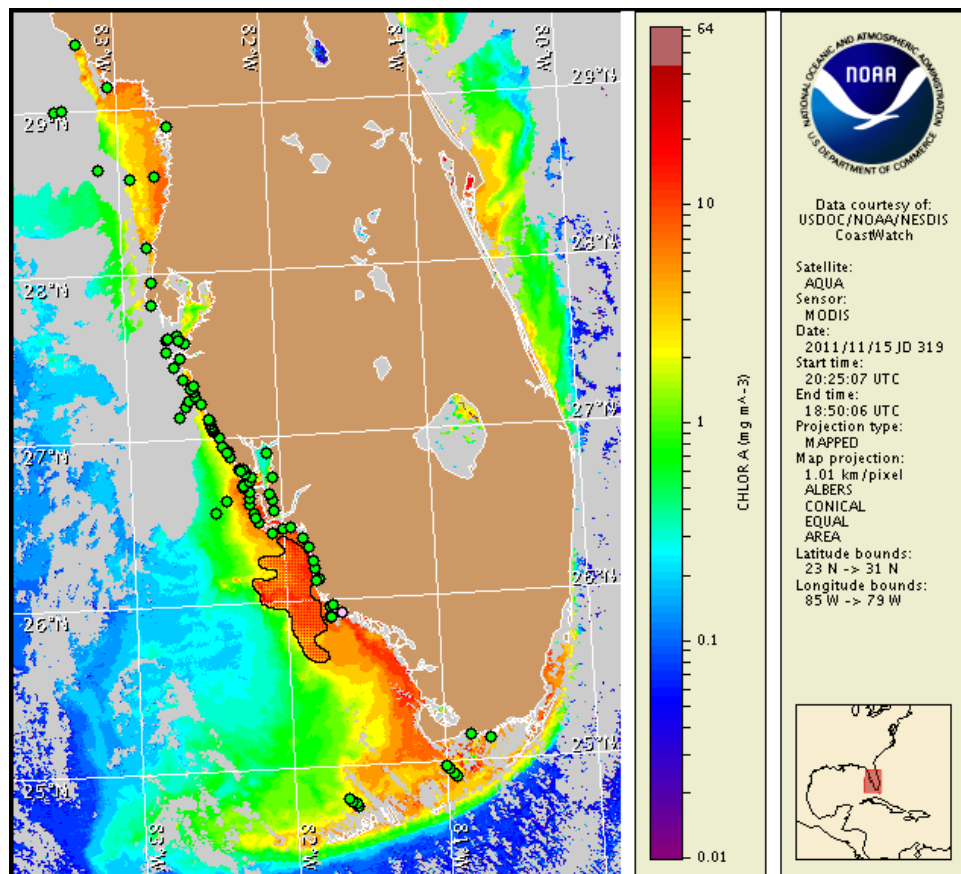
Thursday, 17 November 2011

NOAA Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, November 14, 2011



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from November 7 to 16 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](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

A harmful algal bloom is present offshore southern Lee County, south of Sanibel Island. Harmful algae is present alongshore central Collier County in the Marco Island region. No impacts are expected along the coasts of southwest Florida today through Sunday, November 20.

## Analysis

The harmful algal bloom first identified on 9/26 in southern Sarasota County appears to remain located largely offshore southern Lee to southern Collier counties. In Big Marco Pass, 'very low' concentrations of *Karenia brevis* were last identified on 11/7 (FWRI); *K. brevis* concentrations at this location have since dropped to background concentrations (FWRI 11/14). In Goodland Bridge, Collier County, background concentrations of *K. brevis* were observed on 11/14 (FWRI). All other samples collected from alongshore and offshore Pinellas to central Collier indicate that *K. brevis* is not present (FWRI 11/7-11/15; SCHD 11/14).

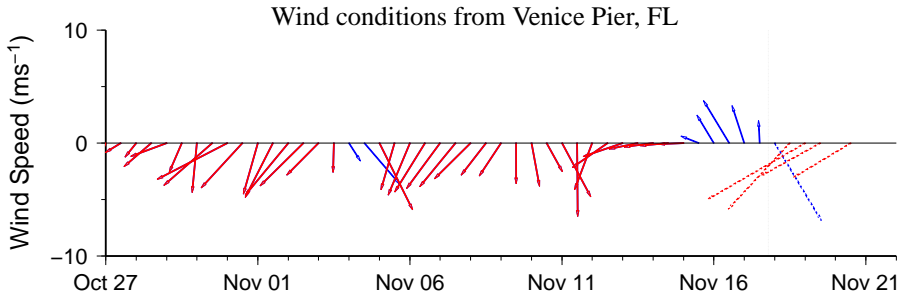
The most recent MODIS imagery (11/15) does not indicate much change in chlorophyll levels since 11/13. A patch of elevated to high chlorophyll levels ( $>5 \mu\text{g/L}$ ) is located near the Naples region of Collier County. Imagery indicates that the bloom may presently be located offshore Collier County where a large area of elevated to high chlorophyll levels ( $>4 \mu\text{g/L}$ ) is visible up to 24 miles from the coastline between northern and central Collier County. Sampling in the northern to central Collier County region is recommended.

Forecasted winds through Sunday may promote bloom formation at the coast in southern Collier County. Continued southerly transport of the bloom is likely through Sunday.

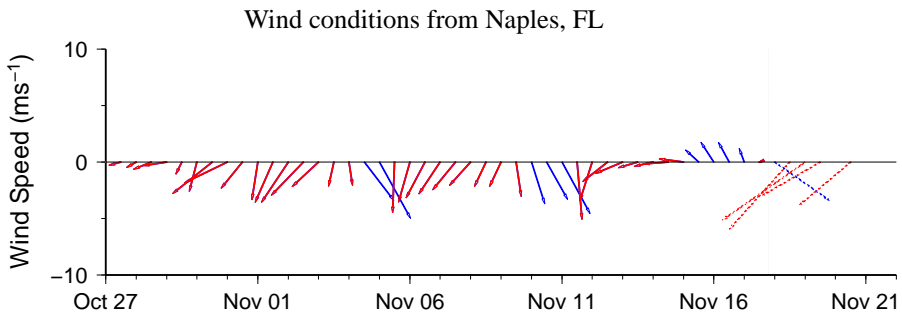
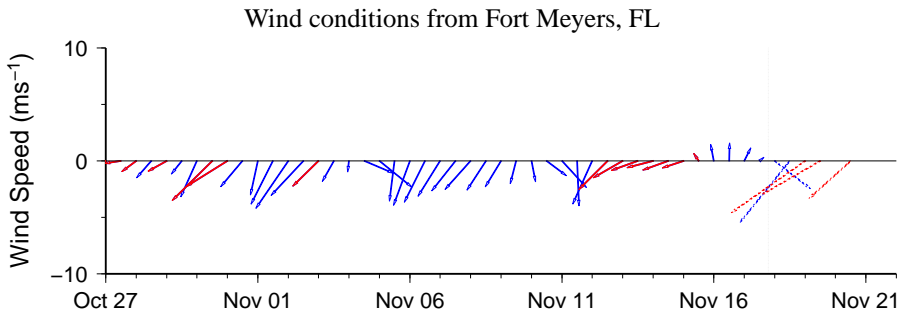
-Burrows, Urizar

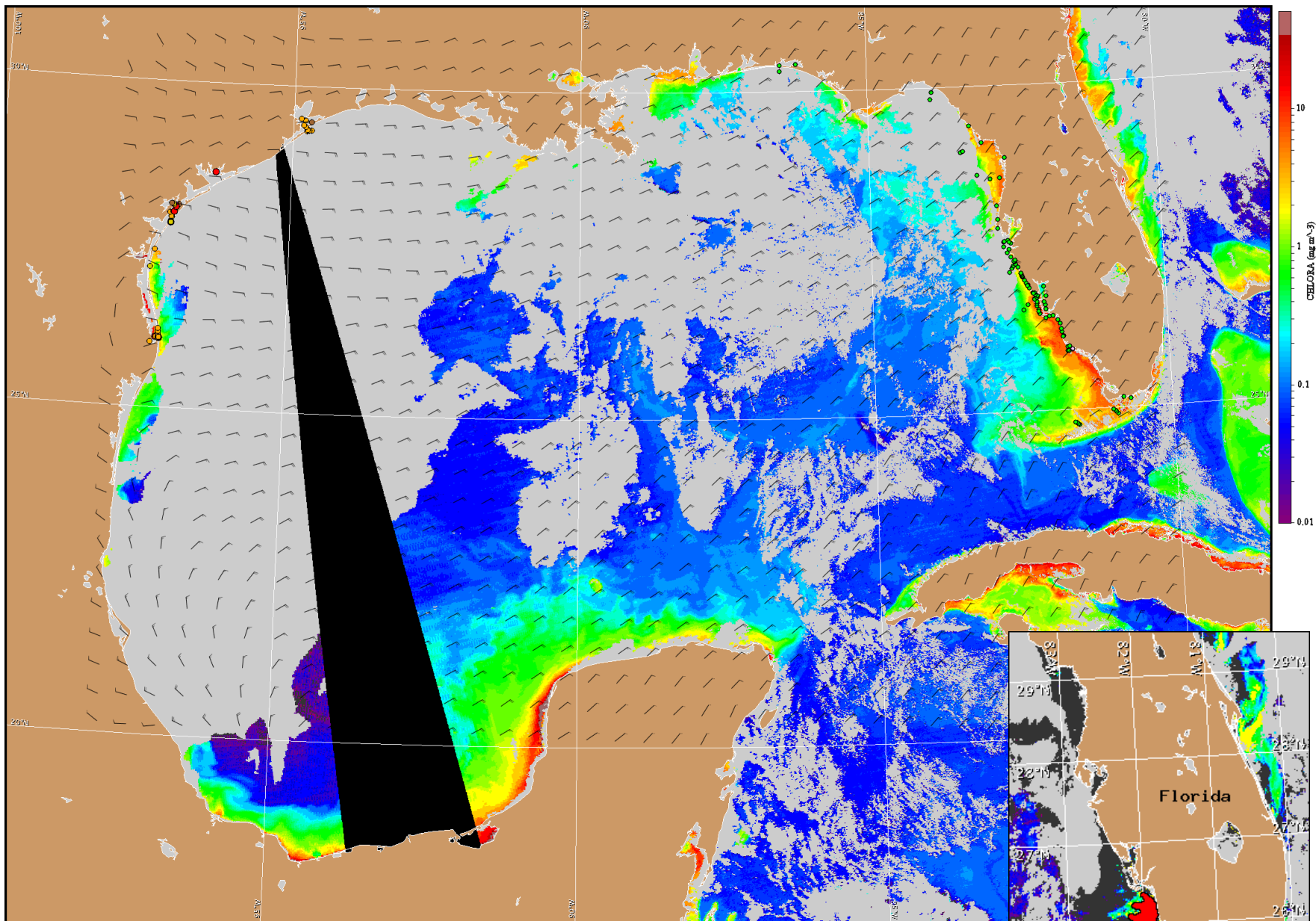
## Wind Analysis

Southwest Florida: Northwestern winds (15kn, 8 m/s) Thursday. Northeasterly winds (20 kn, 10 m/s) tonight through Friday. Easterly winds (15-20 kn) Friday night through Sunday night.



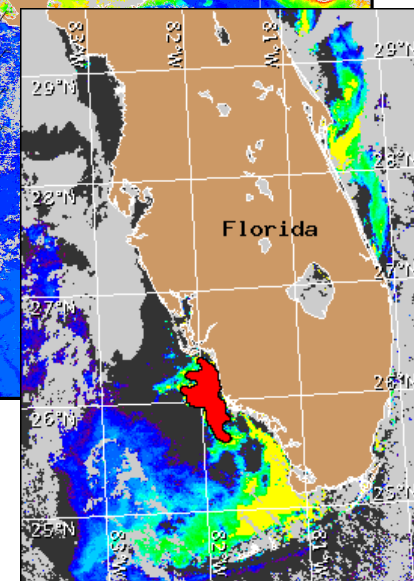
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).





Satellite chlorophyll image and forecast winds for November 18, 2011 12Z with cell concentration sampling data from November 7 to 16 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).