



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: South Florida

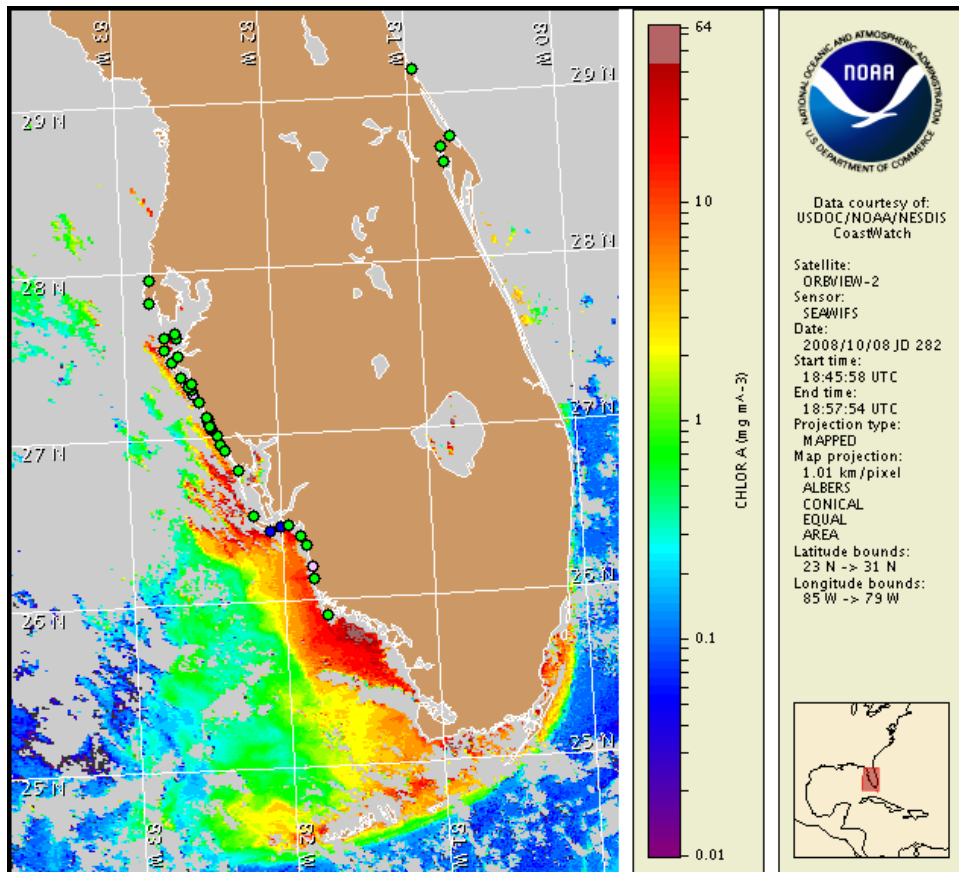
9 October 2008

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: October 6, 2008



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from September 29 to October 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 HABFS bulletin guide:

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 southern Lee County. Patchy very low impacts are possible in the eastern Sanibel Island region today, Friday and Sunday. No other impacts are expected alongshore southwest Florida today through Monday, October 13.

Analysis

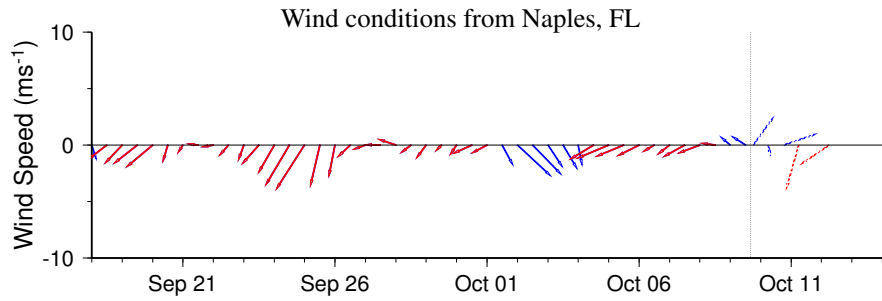
A harmful algal bloom was identified last week in the eastern Sanibel Island region of Lee County. Background concentrations of *Karenia brevis* were collected onshore this week near New Pass and Siesta Key Beach in Sarasota County, Pine Island in Lee County, and Clam Pass in Collier County (10/6; FWRI, SCHD). No additional *K. brevis* was identified alongshore southwest Florida from Pinellas to Collier Counties in the past week.

Although partially obscured by clouds, recent imagery continues to show elevated to high chlorophyll levels (greater than $3\mu\text{g/L}$) alongshore and offshore Lee and Collier Counties (up to 33 miles west of Sanibel Island). A small band of high chlorophyll (greater than $10\mu\text{g/L}$) is also visible near the coast in the Naples region of Collier County stretching ~7 miles westward. Sampling is recommended throughout these regions.

Upwelling favorable conditions are expected to return tomorrow through Monday after a brief one to two day respite. Bloom intensification in southern Lee County and formation throughout southwest Florida is possible through Monday.

Due to the upcoming Federal holiday, the next bulletin will be issued on Tuesday, October 14.

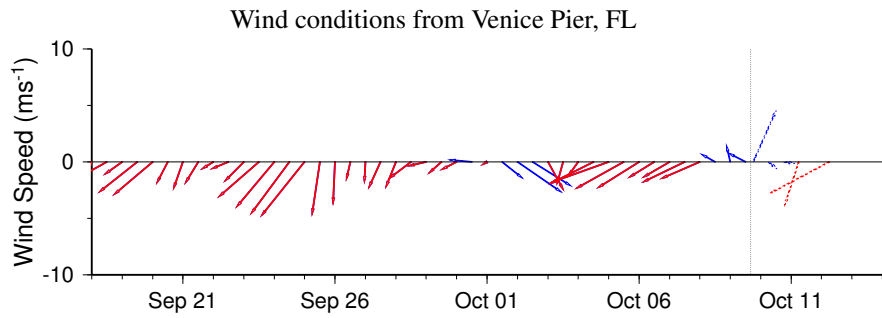
~Fisher, Fenstermacher, Gan

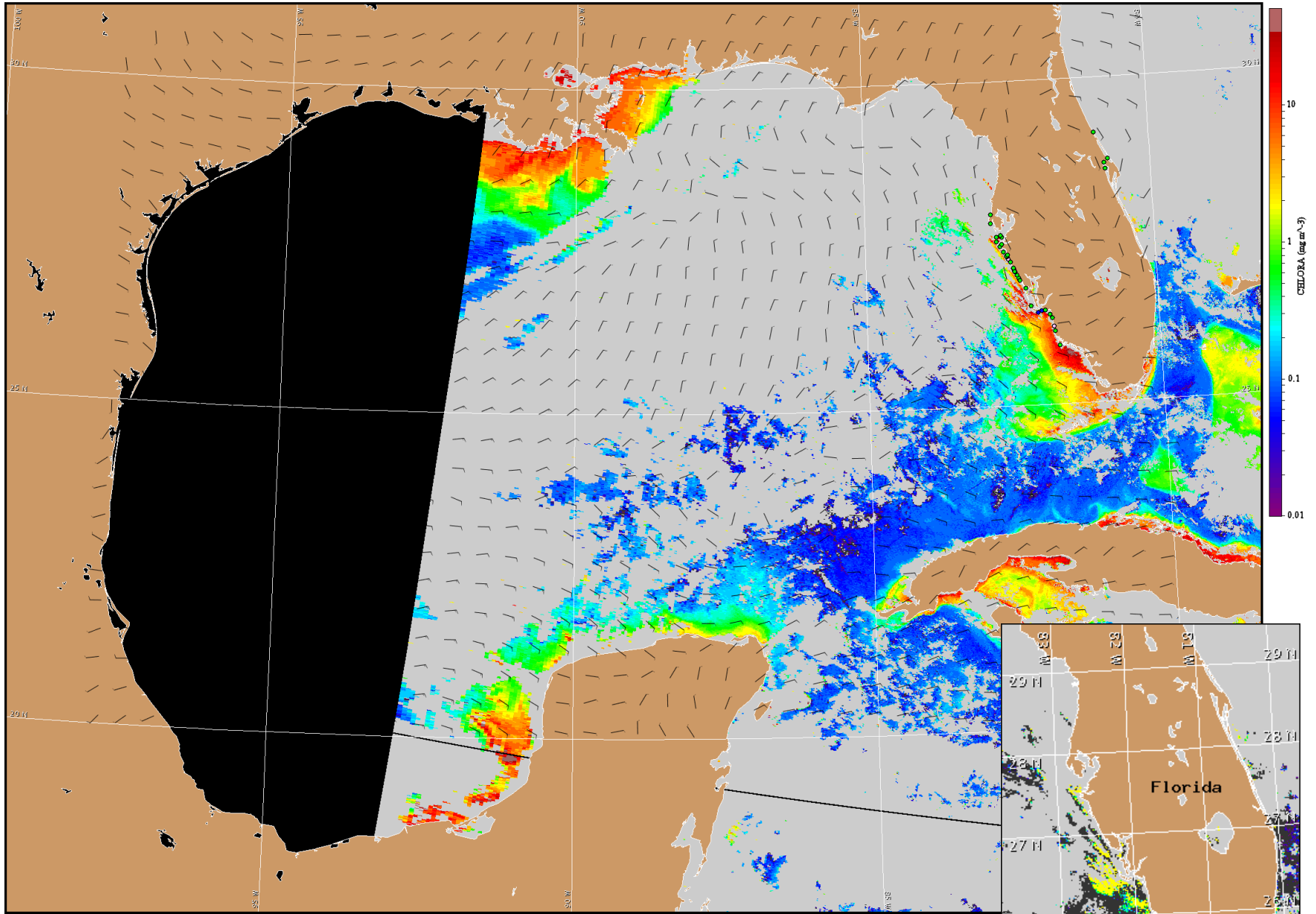


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.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

Wind Analysis

South winds today (10kn, 5m/s). Southeast winds tonight (5-10kn, 3-5m/s). East winds Friday (5-15kn, 3-8m/s). Northeast winds Saturday (10-20kn, 5-10m/s). East winds Sunday (20-25kn, 10-13m/s). Northeast winds Monday (20-25kn).





Satellite chlorophyll image and forecast winds for October 10, 2008 12Z with Cell concentration sampling data from September 29 to October 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 HABFS bulletin guide: http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).