



# Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

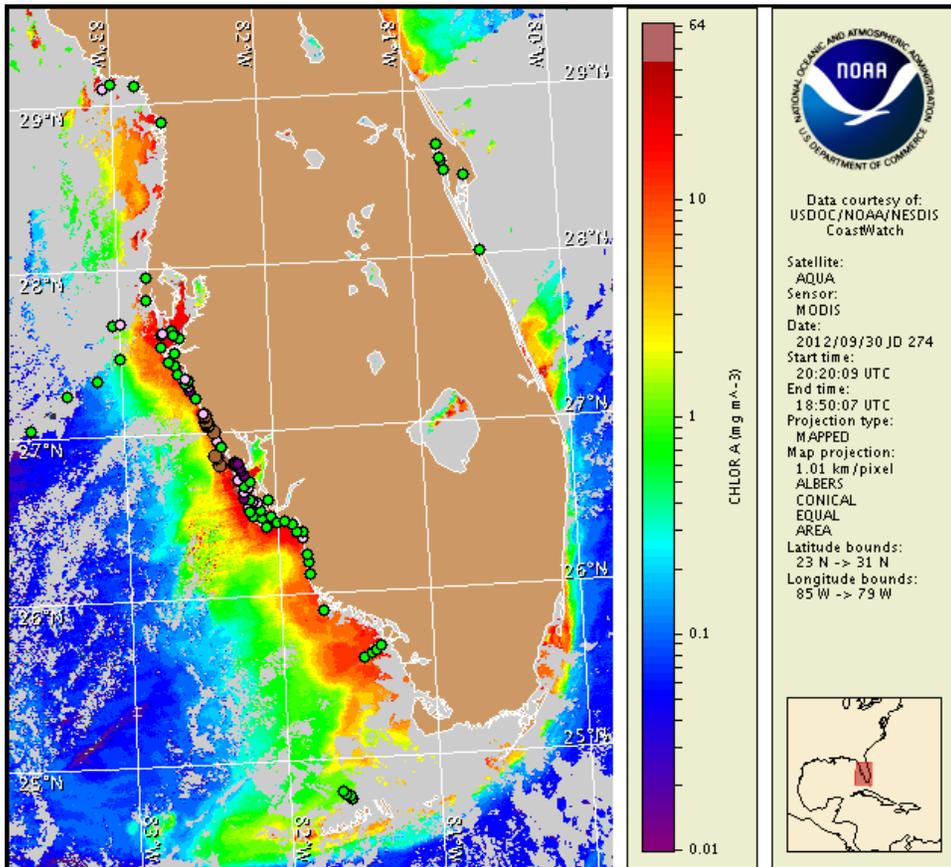
Monday, 01 October 2012

NOAA Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Thursday, September 27, 2012



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from September 21 to 28 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)

Detailed sample information can be obtained through the Florida FWC Fish and Wildlife Research Institute at:

<http://myfwc.com/research/redtide/events/status/statewide/>

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit at: <http://tidesandcurrents.noaa.gov/hab/bulletins.html>

## Conditions Report

Patchy bloom concentrations of *Karenia brevis* (commonly known as Florida Red Tide) have been identified onshore southern Sarasota County and onshore and offshore Charlotte County. The harmful algae *Karenia brevis* have been identified onshore southern Manatee, northern Sarasota, and northern Lee County, and in the Pine Island Sound region of northern Lee County. In southern Sarasota County, patchy moderate respiratory impacts are possible today through Wednesday. In Charlotte County, patchy very low respiratory impacts are possible today through Wednesday. No impacts are expected elsewhere alongshore southwest Florida today through Wednesday, October 3.

## Analysis

Patchy bloom concentrations of *Karenia brevis* (commonly known as Florida Red Tide) have been identified onshore southern Sarasota County and onshore and offshore Charlotte County. The harmful algae *K. brevis* have been identified onshore southern Manatee, northern Sarasota, and northern Lee County, and in the Pine Island Sound region of northern Lee County.

Samples taken from alongshore of southern Sarasota County, Charlotte County and in the Pine Island Sound region of northern Lee County ranged from background to low b (9/20-27, FWRI, SCHD, MML). Samples ranged from background to very low a onshore of southern Manatee and northern Sarasota. Background concentrations were found onshore and offshore of Pinellas, and onshore of northern Lee (9/21-27; FWRI). Samples collected from Collier and Monroe Counties did not contain *K. brevis* (9/18-25; MML, CCHD).

Satellite imagery indicates several distinct areas of elevated to high levels of chlorophyll alongshore and out to 15 miles offshore of Pinellas and northern Sarasota Counties (~6  $\mu\text{g/L}$ ), alongshore and up to 35 miles offshore of Charlotte and Lee Counties (>10  $\mu\text{g/L}$ ) and offshore of Collier and Monroe Counties and north of the Keys (~5-8  $\mu\text{g/L}$ ), as highlighted in the image on left and on the inset of page 3 of this bulletin.

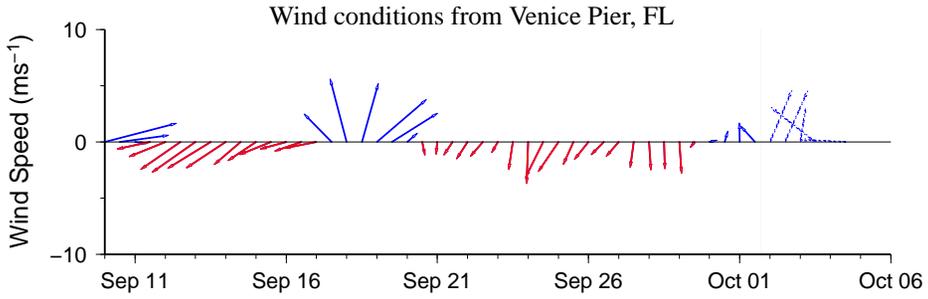
Onshore transport is possible today through Wednesday. Continued sampling is recommended.

\*\* Note: As of today, October 1, southwest Florida bulletins will be issued twice weekly on Mondays & Thursdays due to current harmful algal bloom conditions \*\*

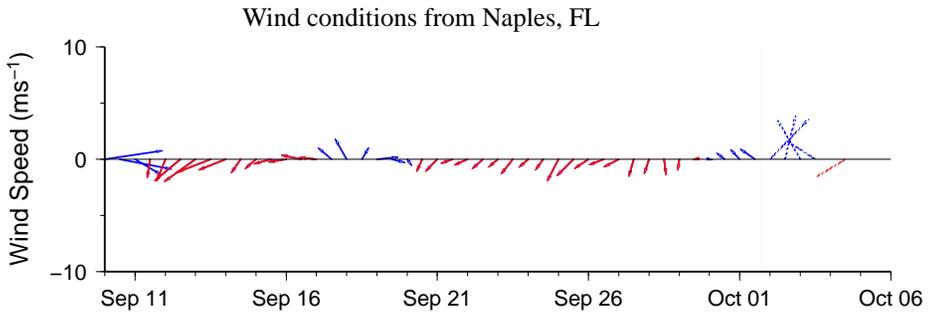
~Fenstermacher, Kavanaugh

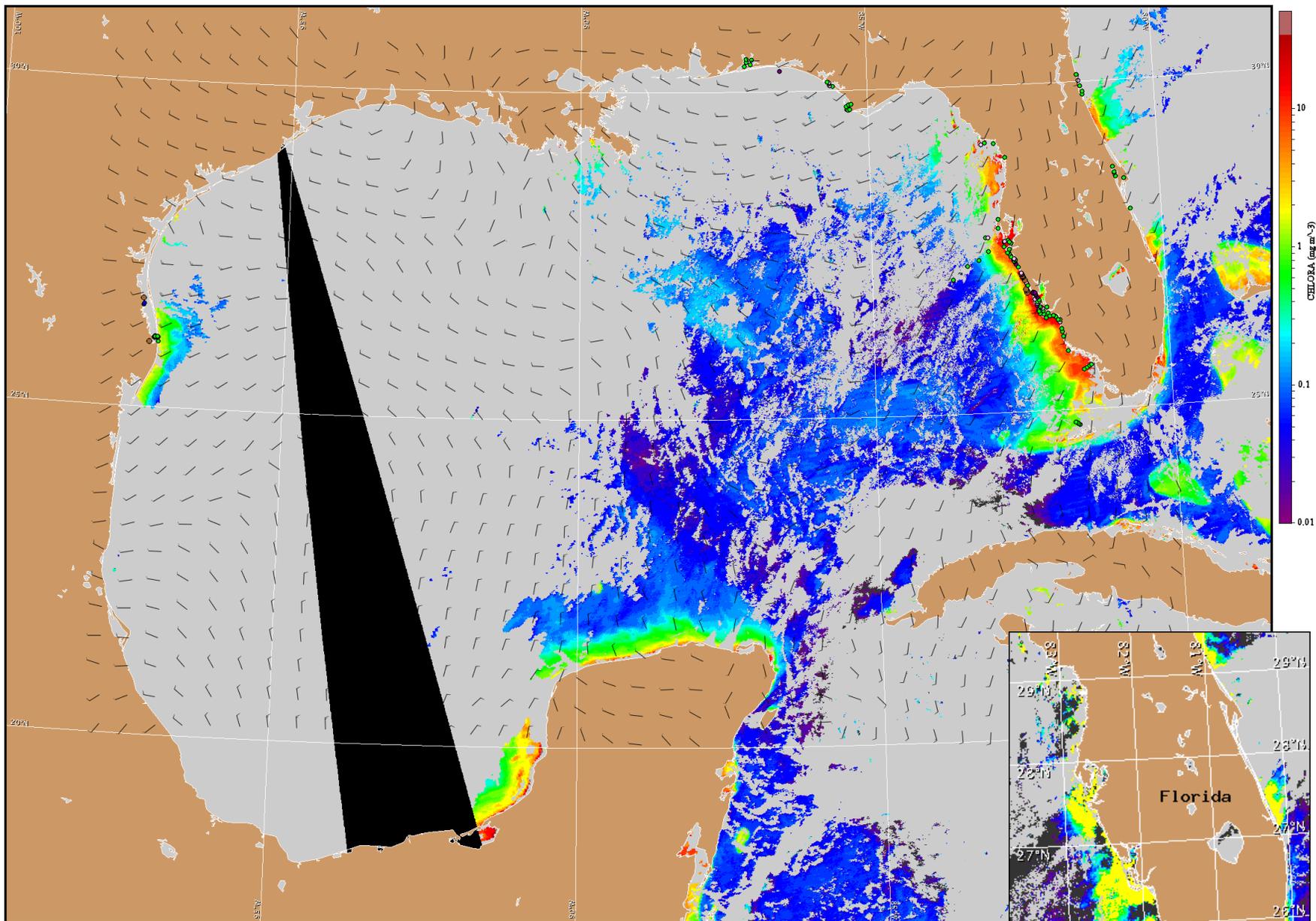
### Wind Analysis

SWFL: South to southwesterlies today and tomorrow (15 kn; 8 m/s). Westerlies becoming easterlies Tuesday night through Wednesday, and southeasterlies on Wednesday afternoon (10 kn; 5 m/s).



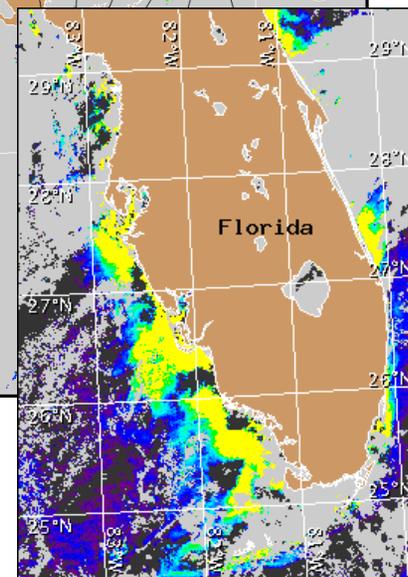
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.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





Satellite chlorophyll image and forecast winds for October 2, 2012 12Z with cell concentration sampling data from September 21 to 28 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).