



# Gulf of Mexico Harmful Algal Bloom Bulletin

1 November 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: October 29, 2007

## Conditions Report

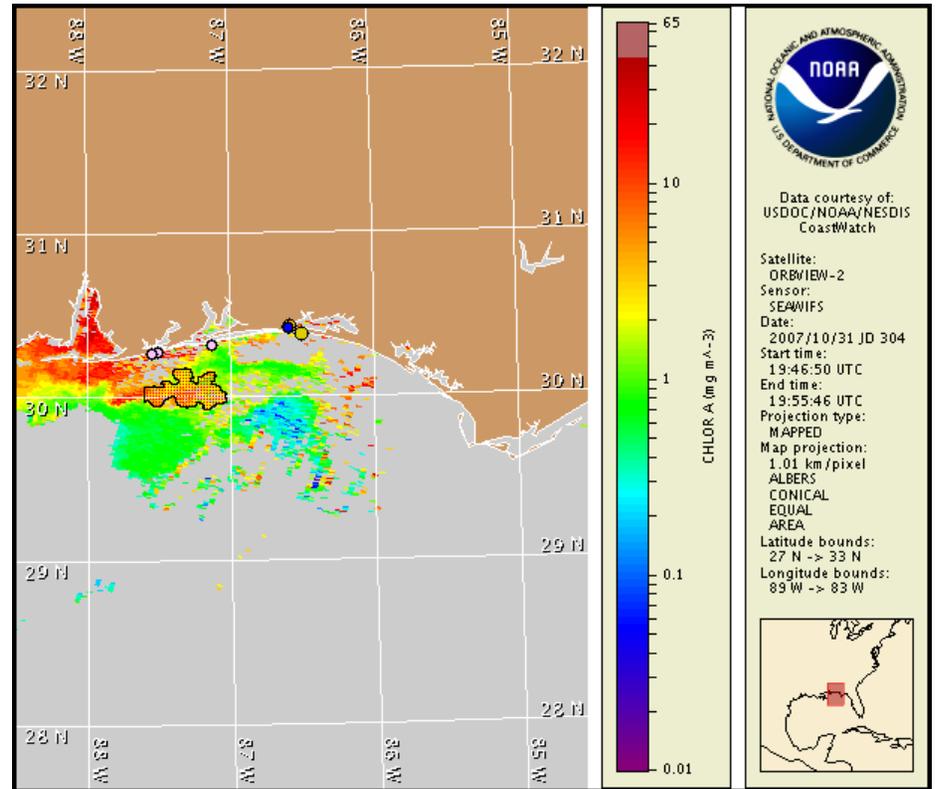
A harmful algal bloom has been identified in patches from Bay County, Florida to Baldwin County, Alabama. Patchy very low impacts are possible today through Sunday in Okaloosa County, Florida and Baldwin County, Alabama.

## Analysis

A harmful algal bloom persists from Bay to Escambia County, Florida, and in Baldwin County, Alabama. Recent samples from Baldwin County, Alabama indicate 'very low a' to 'medium' concentrations of *Karenia brevis* (Alabama Department of Public Health; 10/30-31). No recent samples have been received from northwestern Florida. Cloud cover makes analysis of satellite imagery (10/31) difficult; however patches of high chlorophyll levels ( $>10 \mu\text{g/L}$ ) are visible south of Baldwin County, Alabama. The patches are centered at  $30^{\circ}8'17''\text{N}$ ,  $88^{\circ}2'8''\text{W}$  and  $29^{\circ}59'25''\text{N}$ ,  $87^{\circ}47'50''\text{W}$ . Reports of dead fish have been received from Okaloosa County over the past few days.

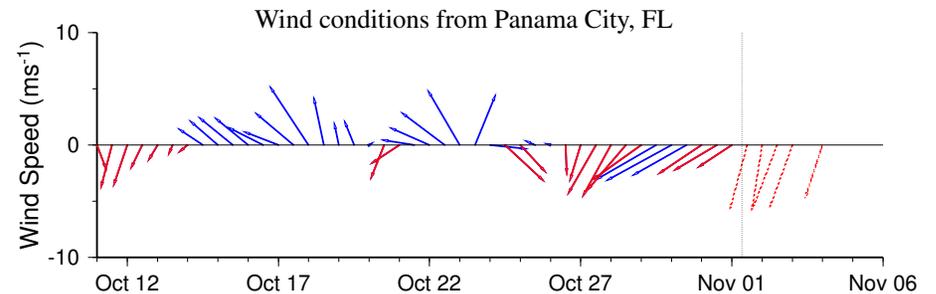
Offshore winds will minimize impacts today to Sunday. Although conditions are favorable for upwelling, intensification of the bloom is unlikely.

Urizar, Fenstermacher



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from October 22 to 30 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 concentration data providers and a key to the cell concentration categories, please see the HABFS bulletin guide:

[http://www.csc.noaa.gov/crs/habf/habfs\\_bulletin\\_guide.pdf](http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf)

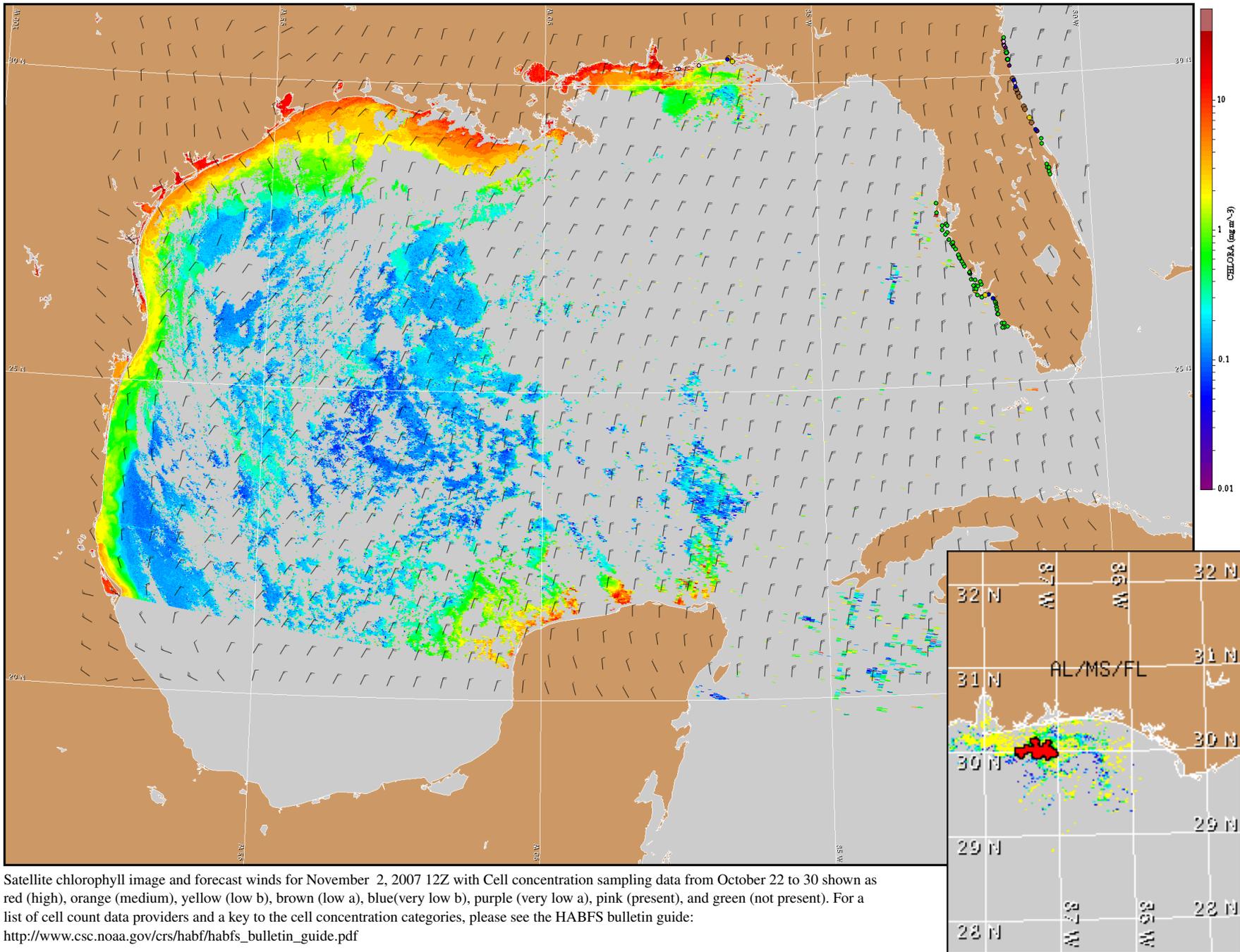


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

NW Florida: Northerlies today to Friday night (10-20 kt, 5-10 m/s). Northeasterlies Saturday (10 kt). Northerlies Sunday (5-10 kt, 3-5 m/s).

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

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.



Satellite chlorophyll image and forecast winds for November 2, 2007 12Z with Cell concentration sampling data from October 22 to 30 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://www.csc.noaa.gov/crs/habf/habfs\\_bulletin\\_guide.pdf](http://www.csc.noaa.gov/crs/habf/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).

Wind conditions from Dauphin Island, AL

