



Gulf of Mexico Harmful Algal Bloom Bulletin

4 October 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: October 1, 2007

Conditions Report

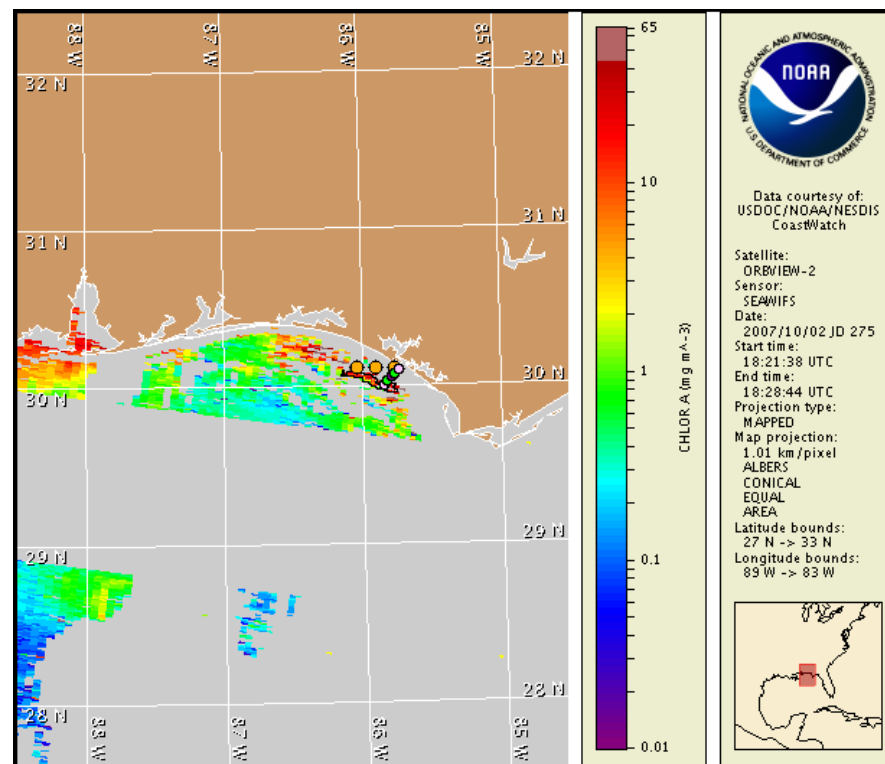
A harmful algal bloom has been identified in Bay and Walton counties. In Bay County, patchy high impacts are possible today and patchy low impacts are possible Friday through Sunday. In Walton County, patchy moderate impacts are possible today and patchy very low impacts are possible tomorrow through Sunday. No respiratory impacts are expected in Gulf County today through Sunday.

Analysis

A harmful algal bloom has been identified in Bay and Walton counties. Samples collected south of Bay County indicate 'low a' concentrations of *Karenia brevis* at the surface and high concentrations of *K. brevis* at depth (FWRI; 9/24). Satellite imagery is partially obscured by clouds; however a region of high chlorophyll levels ($> 10 \mu\text{g/L}$) located south of Walton and Bay counties remains. Continued sampling is recommended.

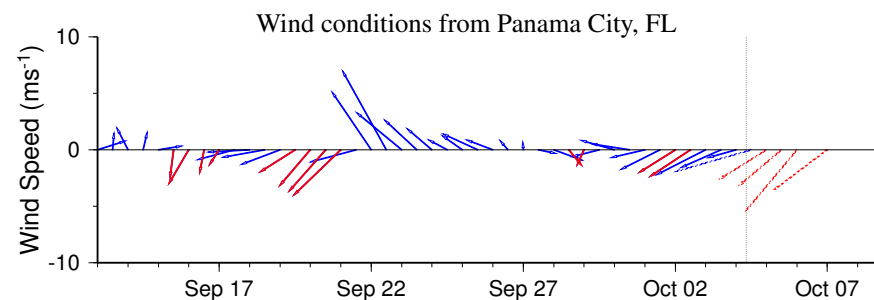
Offshore winds will decrease the potential for impacts at the coast Friday through Sunday. Upwelling conditions increase the potential for bloom intensification Friday and Saturday.

Urizar, Keller



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from September 24 to October 3 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

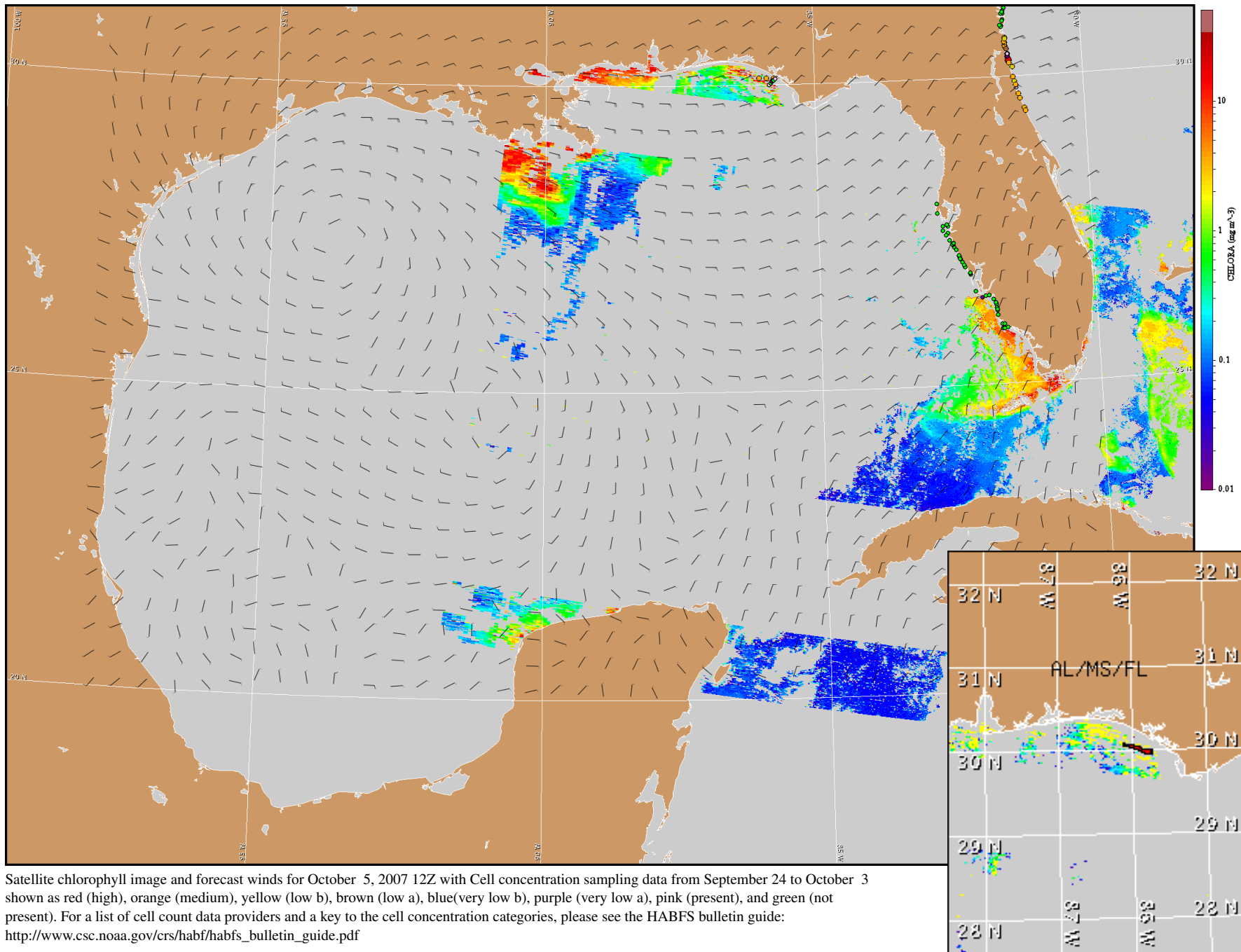


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

NW Florida: Southwesterlies today (10-15 kt, 5-8 m/s) and easterlies tonight (5-10 kt, 3-5 m/s). Northeasterlies Friday and Saturday (5-15 kt, 3-8 m/s). Easterlies on Sunday (10-15 kt, 5-8 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 October 5, 2007 12Z with Cell concentration sampling data from September 24 to October 3 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

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