

# Gulf of Mexico Harmful Algal Bloom Bulletin

7 December 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: December 6, 2007

## Conditions Report

**NE Florida:** A harmful algal bloom has been identified from southern Flagler to northern Indian River County. In southern Flagler County, patchy very low impacts are possible today through Sunday. In northern Volusia County, patchy low impacts are possible today through Sunday. In southern Volusia, southern Brevard and northern Indian River Counties, patchy moderate impacts are possible today through Sunday. In central Brevard County, patchy high impacts are possible today through Sunday. No other impacts are expected elsewhere along northeast Florida through Sunday, December 9.

**SW Florida:** A harmful algal bloom has been identified in Collier County. Patchy very low impacts are possible today through Sunday. No other impacts are expected elsewhere along southwest Florida through Sunday, December 9.

## Analysis

\*\* This bulletin contains supplemental text to Bulletin number 2007-082, issued Thursday December 6, 2007. \*\*

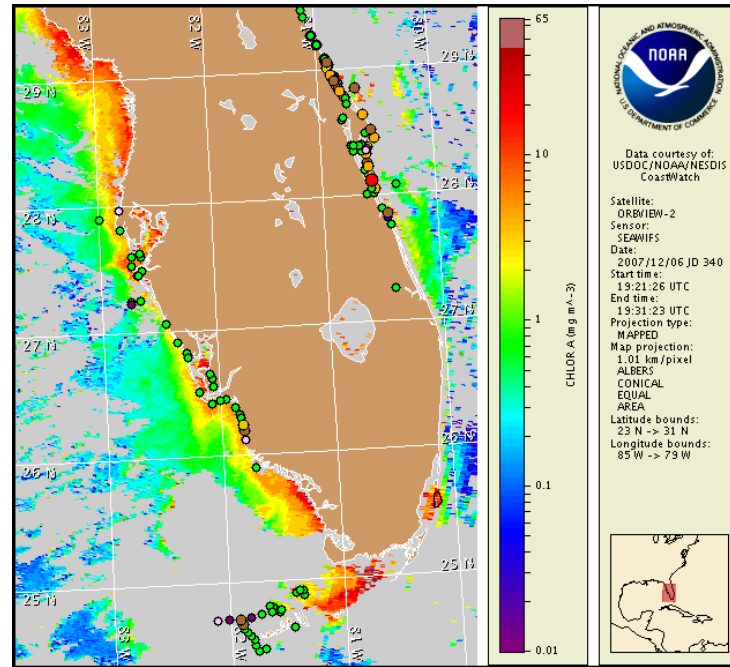
**NE Florida:** Recent samples indicate moderate to high concentrations of *Karenia brevis* in central Brevard County at Paradise Beach and Patrick Air Force Base (12/3, FWRI). Fish kills and respiratory irritation have been reported over the past few days in Brevard and Indian River Counties. Onshore winds throughout the weekend may increase impacts along the coast.

**SW Florida:** A harmful algal bloom has been identified in Collier County. Recent samples indicate low concentrations of *Karenia brevis* along the coast of Collier County at Seagate and Vanderbilt Beach (12/6, FWRI). Offshore winds throughout the weekend will minimize impacts along the coast. Intensification of the bloom is possible through Sunday.

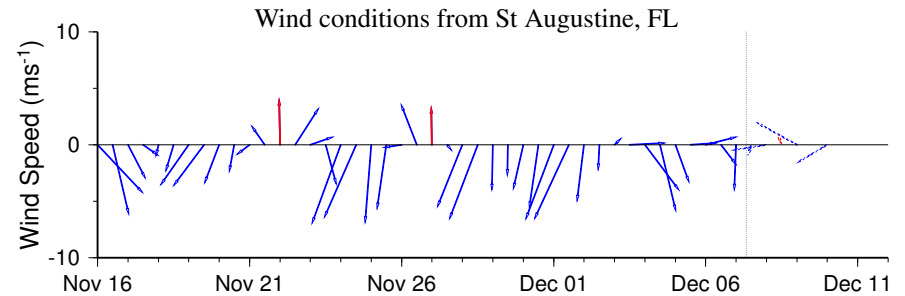
Allen, Fenstermacher

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.



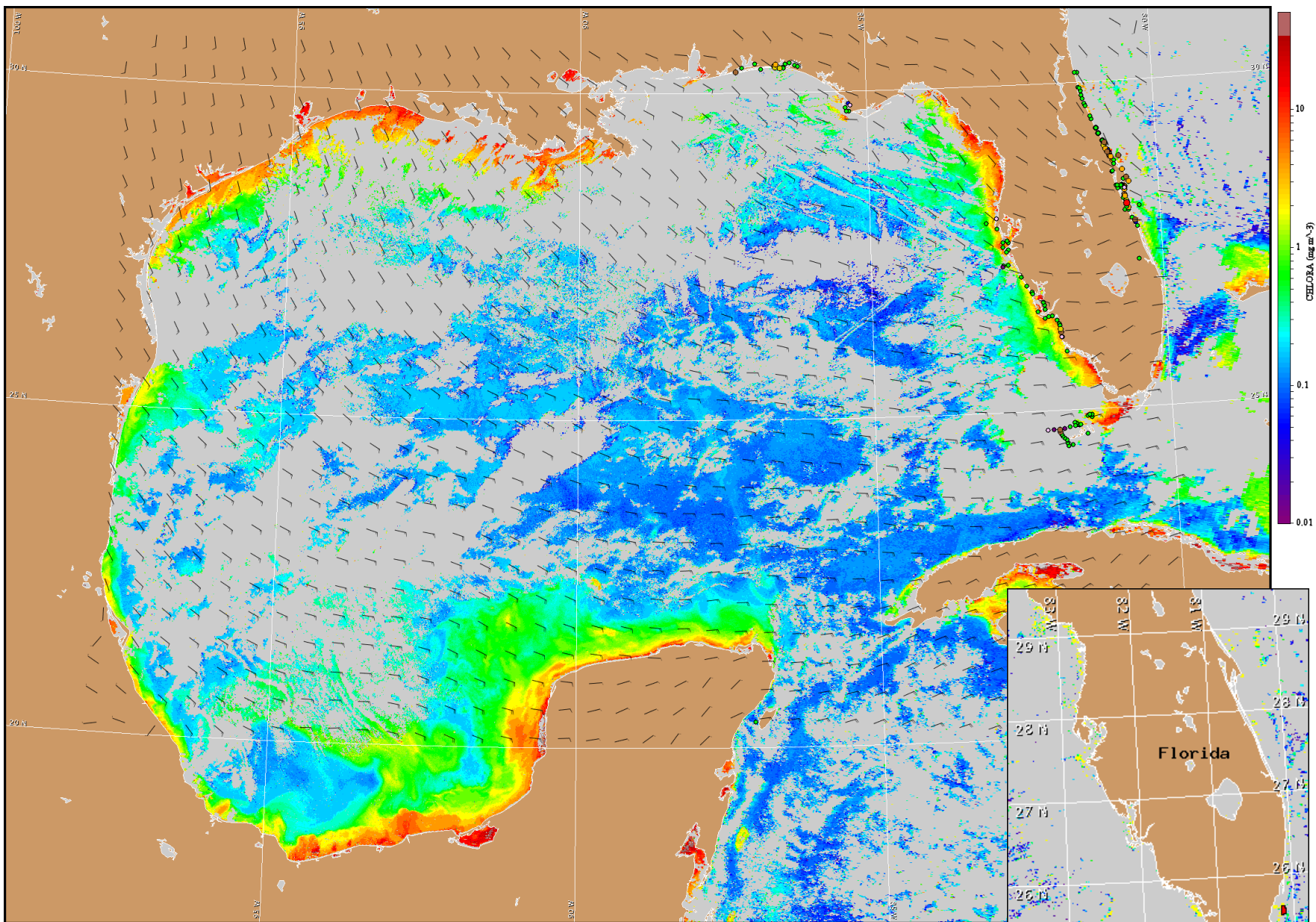
Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from November 27 to December 6 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list 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)



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.

**NE Florida:** Southeasterlies tonight followed by southerlies becoming northeasterlies on Saturday (5-10 kts; 3-5 m/s). Easterlies on Saturday night through Sunday (10-15 kts; 5-8 m/s).

**SW Florida:** Southeasterlies tonight followed by easterlies Saturday through Sunday (5-15 kts; 3-8 m/s).



Satellite chlorophyll image and forecast winds for December 8, 2007 12Z with Cell concentration sampling data from November 27 to December 6 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 Naples, FL

