



Gulf of Mexico Harmful Algal Bloom Bulletin

13 November 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: November 9, 2006

Conditions Report

A harmful algal bloom has been identified from southern Pinellas to central Collier Counties. In southern Pinellas and Manatee Counties, patchy low impacts are possible today and Wednesday and patchy very low impacts are possible Tuesday. In Sarasota County, patchy low impacts are possible today, patchy very low impacts are possible tomorrow, and patchy moderate impacts are possible Wednesday. In Charlotte County, patchy high impacts are possible today and Wednesday and patchy moderate impacts are possible Tuesday. In central Collier County, patchy very low impacts are possible today and Wednesday and no impacts are expected Tuesday. No impacts are expected in Lee and northern Collier Counties.

Analysis

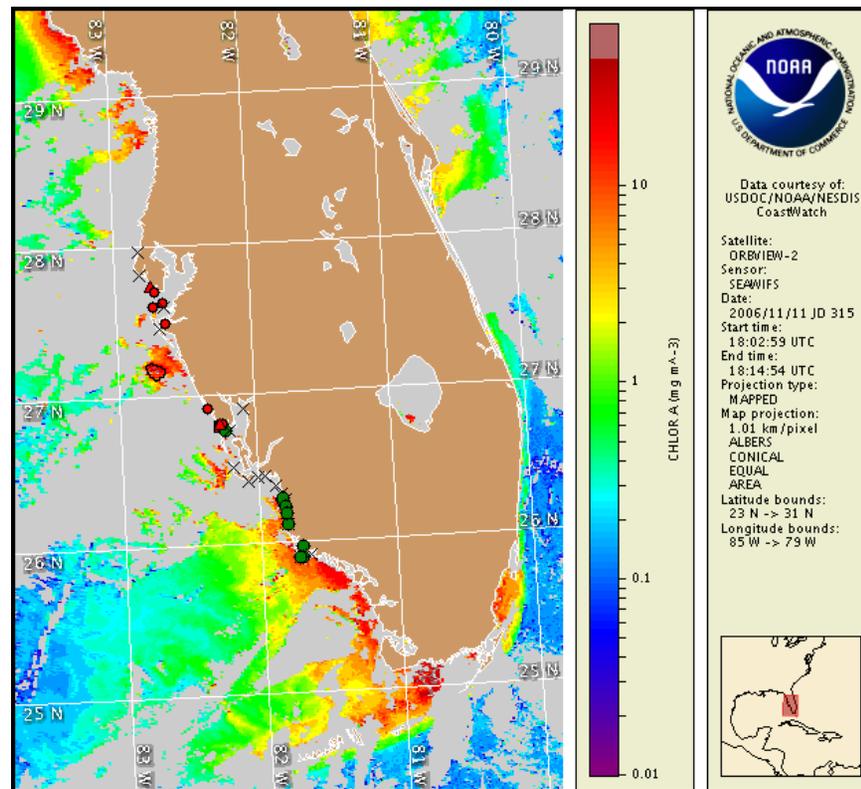
The harmful algal bloom persists from Pinellas to central Collier Counties. Based on a wind transport model, the bloom may have moved southward approximately 10-17 km since 11/9. Present satellite imagery (11/11) is predominantly obscured by clouds; however small portions of the bloom are visible. Two areas of elevated chlorophyll levels ($>15 \mu\text{g/L}$) are centered at $27^{\circ}13.1'N$ $82^{\circ}45.6'W$ (offshore Sarasota County) and at $26^{\circ}31.6'N$ $82^{\circ}19'W$ (offshore central Lee County). A band of elevated chlorophyll levels ($>7 \mu\text{g/L}$) is located offshore Collier County from $26^{\circ}17.3'N$ $81^{\circ}53'W$ to $25^{\circ}43.7'N$ $81^{\circ}24'W$. The most recent samples taken from Lee and Collier Counties contain either no *K. brevis* or only background levels (FWRI; 11/8). The most recent samples taken from Charlotte County contain up to medium levels of *K. brevis* and other non-harmful species (FWRI; 11/08).

Onshore winds today through Wednesday will increase impacts at the coast. No significant intensification of the bloom is expected. Bloom will maintain location at the coast.

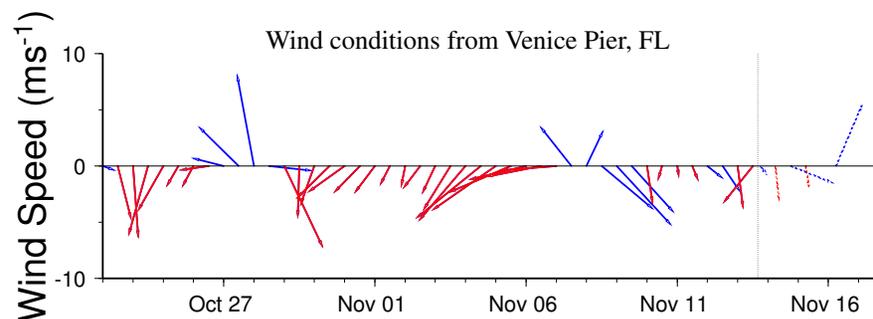
Urizar, Bronder

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.

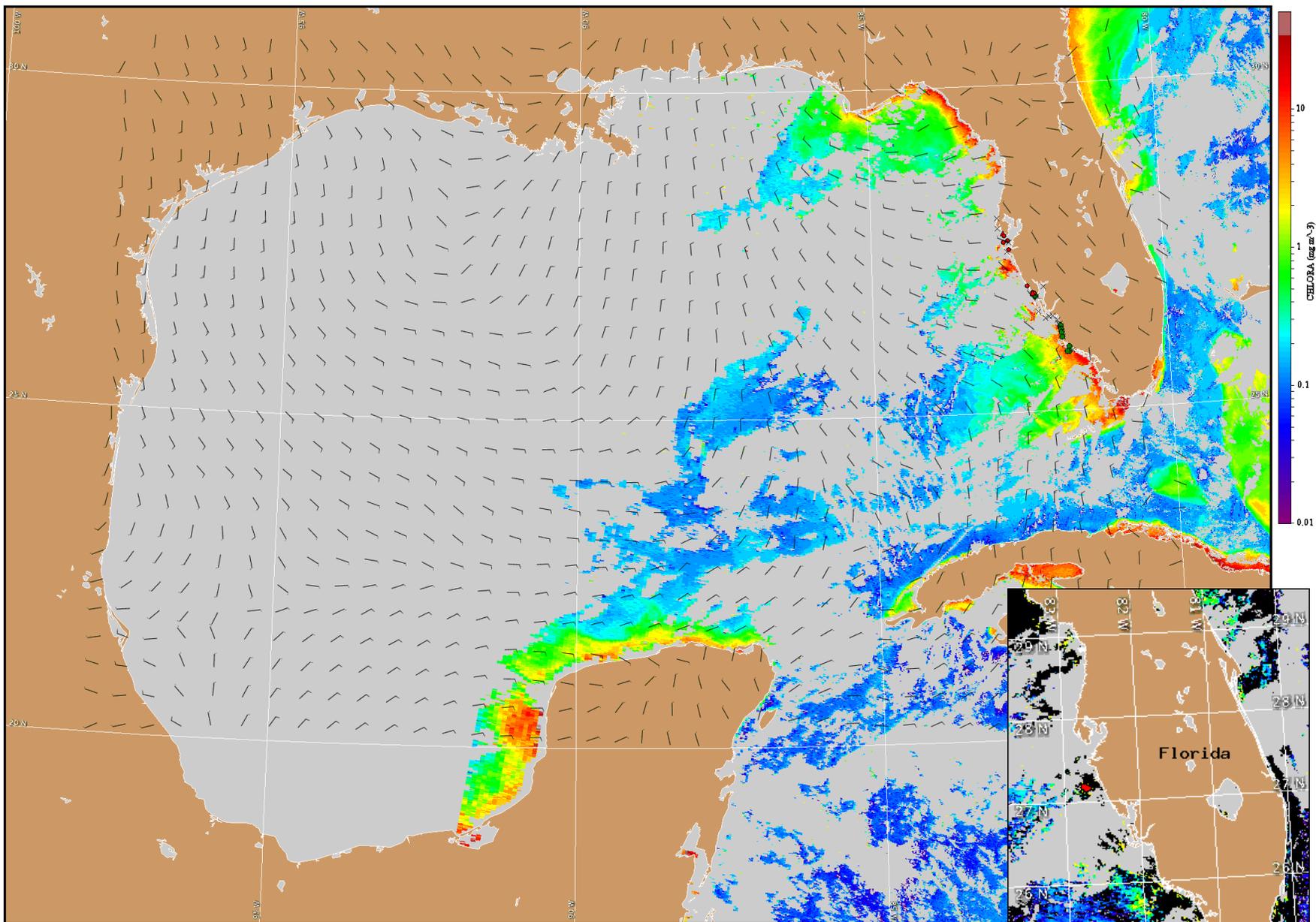


Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit <http://research.myfwc.com>. Cell concentration sampling data from November 3-8 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

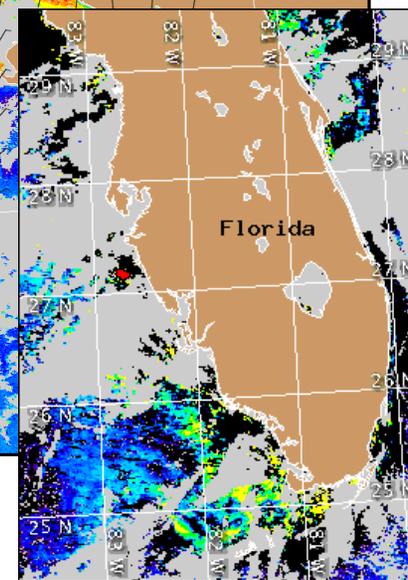


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Moderate onshore winds today (5-10 kts, 3-5 m/s). Light onshore winds on Tuesday (5 kts, 3 m/s). High onshore winds on Wednesday (10-20 kts, 5-10 m/s).



Satellite chlorophyll image and forecast winds for November 14, 2006 12Z with cell concentration sampling data from November 3- 8 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).