



# Gulf of Mexico Harmful Algal Bloom Bulletin

23 October 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: October 19, 2006

## Conditions Report

A harmful algal bloom has been identified from Pinellas to central Collier County. Patchy very low impacts are possible from Pinellas to central Collier County through Wednesday.

## Analysis

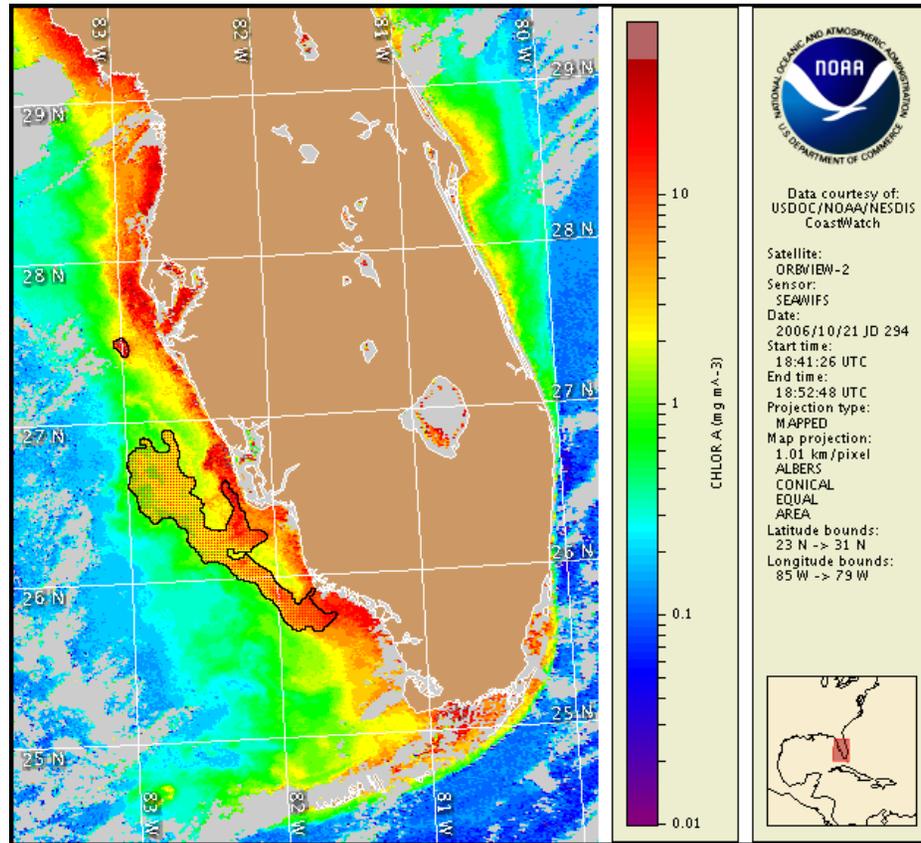
The harmful algal bloom persists onshore from Pinellas to central Collier County, and offshore southern Collier County and northern Monroe County. Chlorophyll concentrations have decreased along the coast in southern Manatee and Sarasota Counties, but have increased along the coast in southern Collier County. Sampling is recommended in southern Collier County. Satellite imagery indicates high chlorophyll concentrations offshore Pinellas and Manatee Counties, with a maximum chlorophyll at 27°31.8'N 83°1.2'W, and alongshore from 27°56.3'N 82°57.3'W to 27°29'N 82°46'W. Regions of high chlorophyll (10-40µg/L) are also detected along the coast from 26°51'N 82°23.2'W to 25°37'N 81°20.8'W. Regions of high chlorophyll extend offshore south of Sanibel Island to 26°12.3'N 82°15.8'W and offshore south of Cape Romano to 25°31.9'N 81°39.8'W. Medium concentrations of *Karenia brevis* have been identified onshore from Longboat Key to Big Marco Pass, with a high concentration of *K. brevis* at New Pass (10/16-20, FWRI). No recent offshore samples are available.

Offshore winds through Wednesday will minimize impacts at the beach. Slight southerly transport of the bloom is possible.

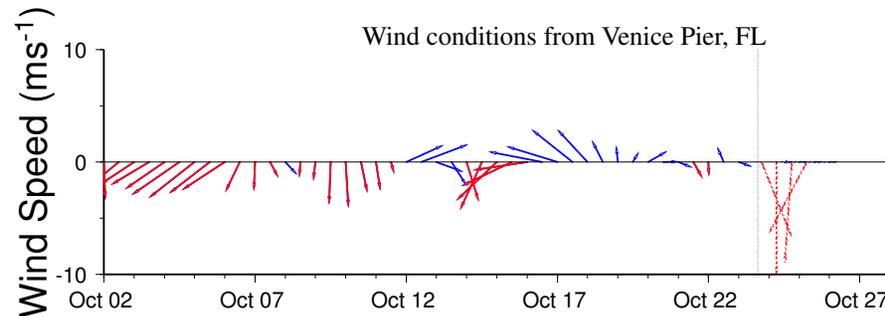
- Allen, Fisher

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.

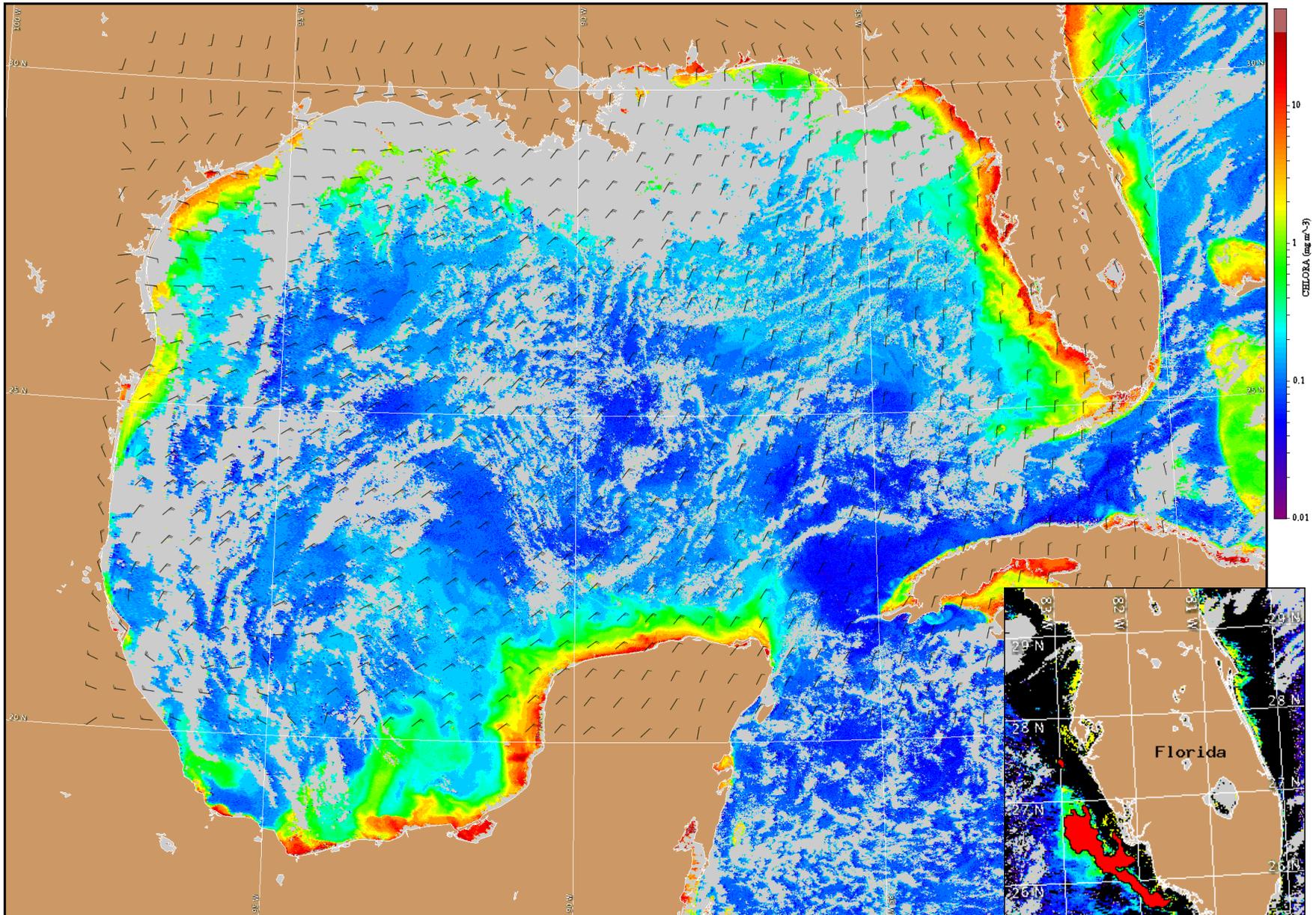


Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit <http://research.myfwc.com>.



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.

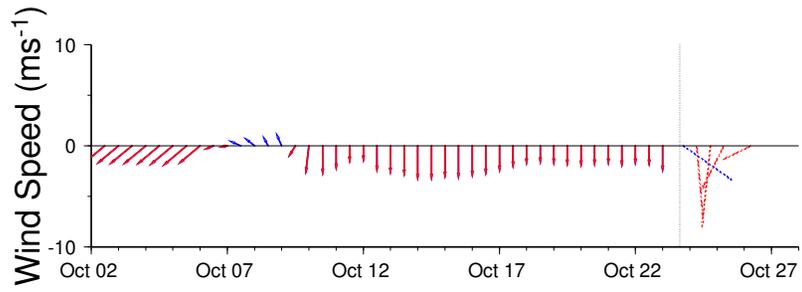
Northerly winds today and Tuesday at 15-20 knots (8-10 m/s) becoming northeasterly Wednesday. Easterly winds Wednesday night at 15 knots (8 m/s) shifting to the south at 10 knots (5 m/s) by Thursday.



Satellite chlorophyll image and forecast winds for October 24, 2006 06Z.

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

Wind conditions from Naples, FL



Wind conditions from Clearwater Beach, FL

