



# Gulf of Mexico Harmful Algal Bloom Bulletin

5 October 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: October 2, 2006

## Conditions Report

A harmful algal bloom has been identified from Pinellas to central Collier County. Patchy low impacts are possible in Pinellas, Sarasota, and southern Charlotte Counties through Sunday. Patchy very low impacts are possible in Manatee, northern Charlotte, Lee, and Collier Counties through Sunday.

## Analysis

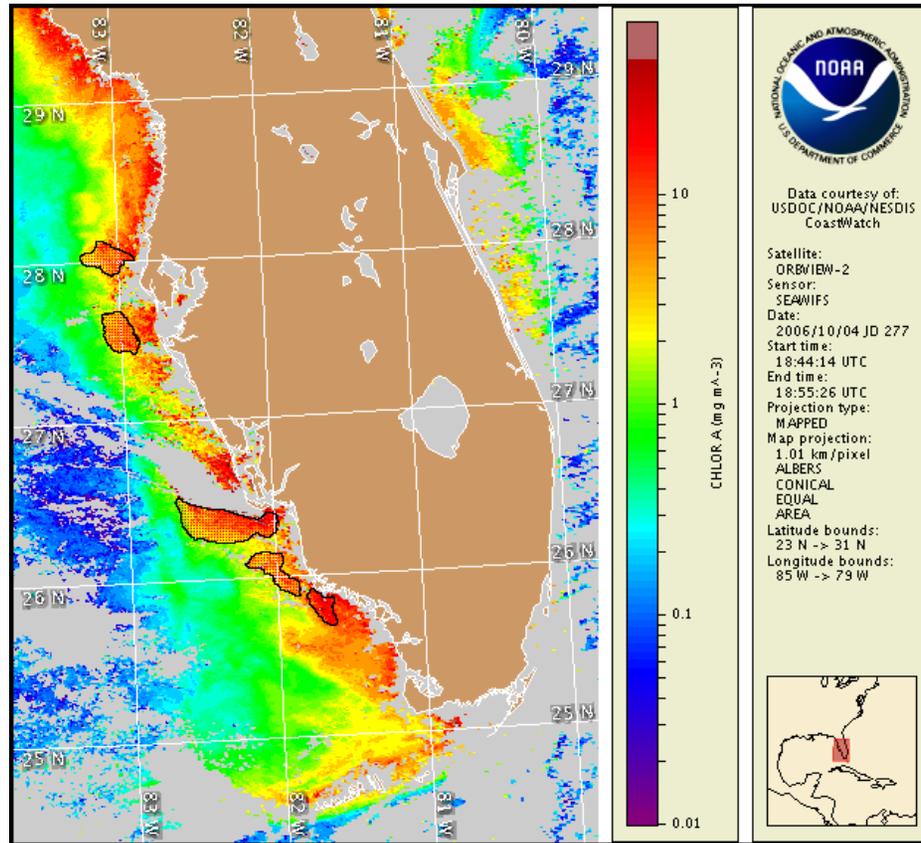
The ongoing harmful algal bloom persists from Pinellas to Collier County. Concentrations of *K. brevis* have increased along the shore in northern and central Collier County. Medium concentrations were identified at Clam Pass, South Marco Beach, Big Marco Pass, and Caxambas Pass, with associated reports of respiratory irritation and dead fish (Collier County PCPD, 10/2). While regions of high chlorophyll along southwest Florida have become more patchy, medium to high concentrations of *K. brevis* were identified this week in Sarasota and Lee Counties at New Pass and Gasparilla Sound (FWRI, 10/2-3). A region of high chlorophyll (>20µg/L) is visible alongshore from Venice to Fort Myers (offshore to 82°32.6'W). A second region of high chlorophyll is visible from Naples (offshore to 82°8.6'W) to south of Cape Romano at 25°42.3'N 81°39.3'W. Reports of fish kills have been received over the past few days at St. Pete Beach, Boca Ciega Bay, Bradenton, Lido Beach, Siesta Key, Osprey, Vanderbilt Beach, Barefoot Beach, and Caxambas Pass.

Offshore winds through the weekend could intensify the bloom, but will minimize impacts at the beach. Minimal transport of the bloom expected through Sunday.

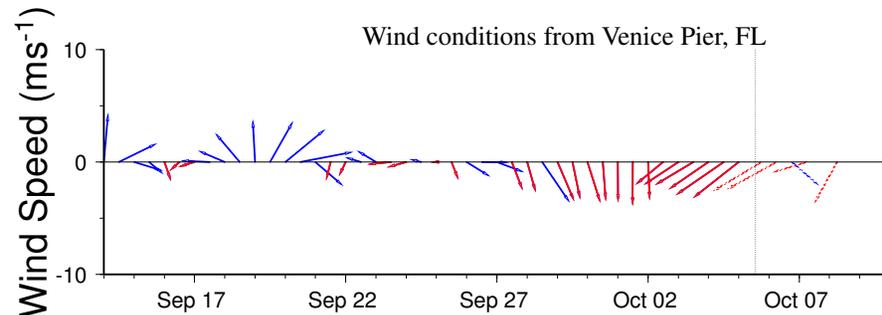
-Allen, Fisher

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.

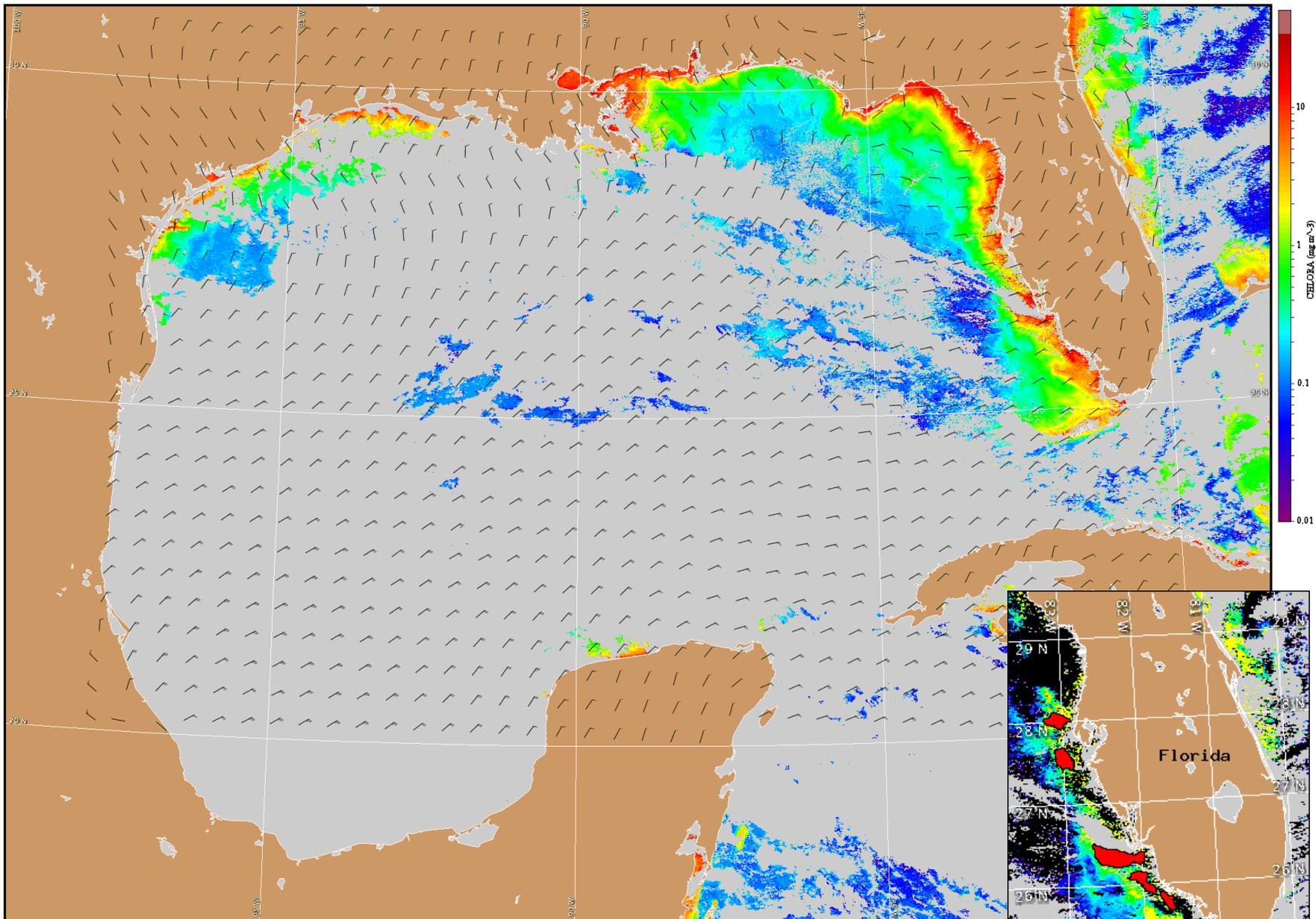


Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit <http://research.myfwc.com>.

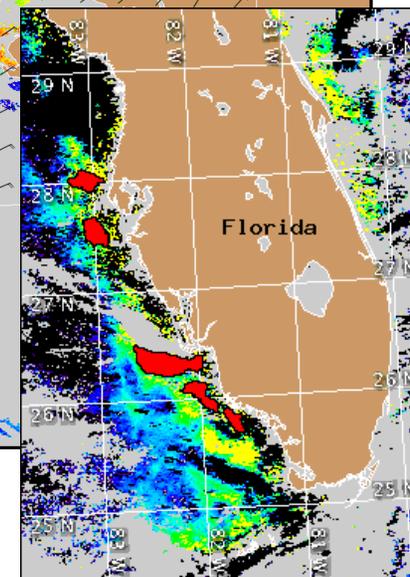


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Northeasterly winds today at 10-15 knots (5-8 m/s) becoming easterly tonight through Friday at 10 knots (5 m/s). Northeasterly winds Friday night through Sunday at 10-15 knots (5-8 m/s).

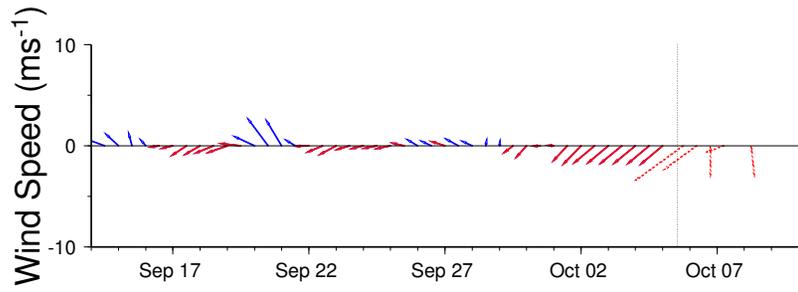


Satellite chlorophyll image and forecast winds for October 6, 2006 12Z.



Verifi ed 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

