



# Gulf of Mexico Harmful Algal Bloom Bulletin

17 January 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: January 12, 2006

## Conditions Report

Harmful algal blooms have been identified in Sarasota, Manatee, Monroe and Palm Beach Counties. No impacts are expected through Thursday in Sarasota and Manatee Counties. In Monroe County, patchy, very low impacts are possible on the oceanside of the Lower Keys today. No other impacts are expected for the Lower Keys on Wednesday and Thursday. In Palm Beach County, patchy, none to very low impacts are possible through Thursday. Water discoloration is possible.

## Analysis

**SW Florida:** The bloom continues to dissipate along SW Florida as samples indicate background concentrations (1/13, FWRI). Imagery indicates a lingering patch offshore at the border of Collier and Monroe Counties. Strong and variable winds will likely continue dissipation of blooms.

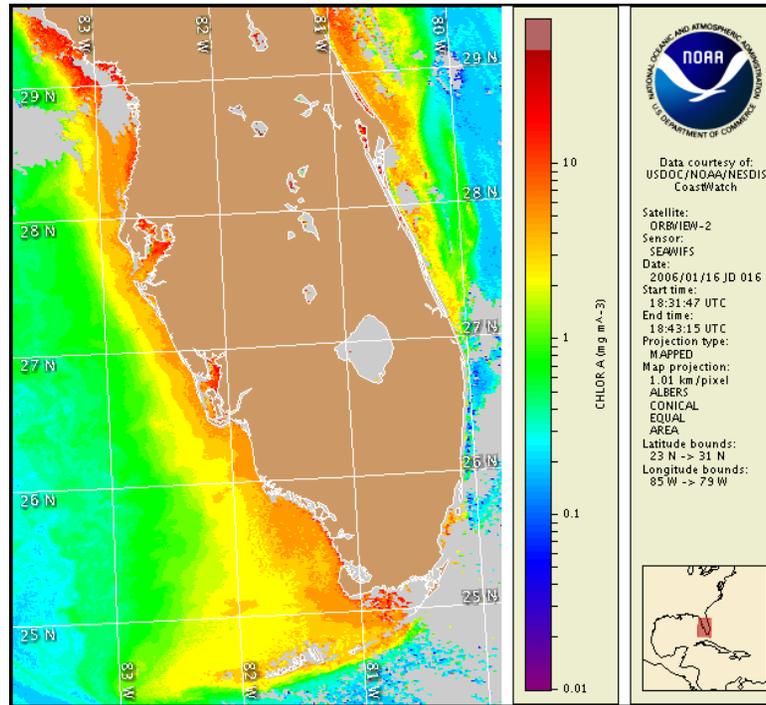
**Keys:** The harmful algal bloom appears to be dissipating as samples indicate background concentrations (1/16; MML). Imagery indicates a lingering patch offshore and northwest of the Keys. The elevated band of chlorophyll on the oceanside of the Florida Keys has none to very low *K. brevis* concentrations (1/16; MML). Strong southerly winds today may increase impacts on oceanside of the Lower Keys today. Strong and variable winds will likely continue dissipation. Discolored water has been reported.

**SE Florida:** A new bloom has been identified at Jupiter Inlet, Palm Beach County, with two samples ranging from present to very low (1/5; FWRI). Strong winds, particularly Wednesday night and Thursday, may increase impacts alongshore.

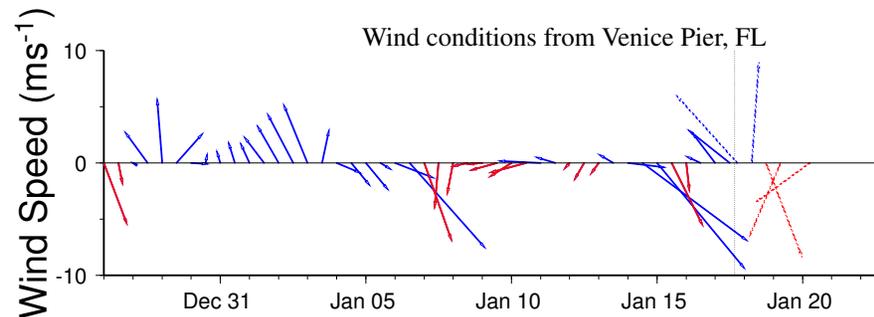
~Fenstermacher & Keller

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 OrbImage approval via the CoastWatch Program.



Satellite chlorophyll image with possible HAB areas shown by red polygon(s).

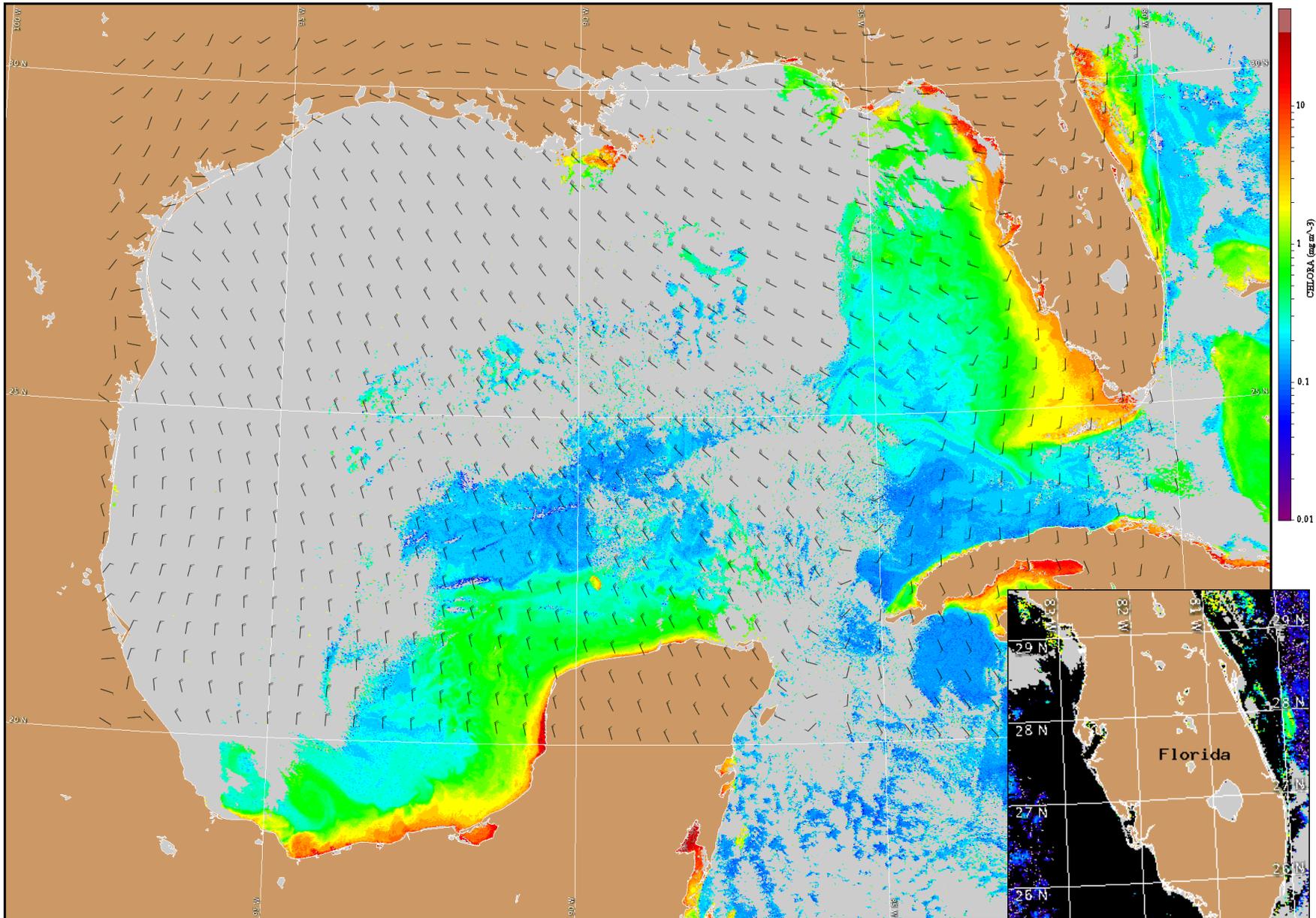


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

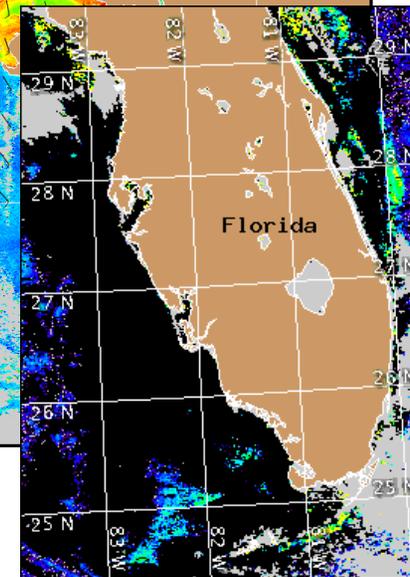
**SW Florida:** Strong southerly to southwesterlies winds today followed by strong northwesterlies to north-easterlies on Wednesday (10-20 knots; 5-10 m/s). Easterly winds on Thursday (5-15 knots; 3-8 m/s).

**Keys:** Strong southeast to southerly winds today (10-20 knots; 5-10 m/s) followed by strong north to north-easterlies on Wednesday (20-25 knots; 10-13 m/s) and Thursday (15-20 knots; 8-10 m/s).

**SE Florida:** Strong southerly winds today followed by strong westerlies on Wednesday (15-25 knots; 8-13 m/s). Northeasterly winds on Wednesday night and Thursday (15-20 knots; 8-10 m/s).

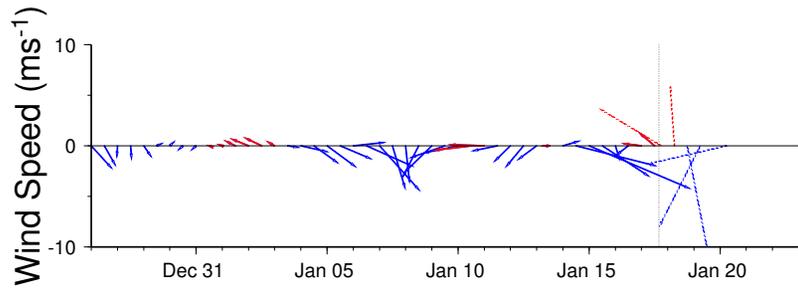


Satellite chlorophyll image and forecast winds for January 18, 2006 06Z.



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

Wind conditions from Vaca Key, FL



Wind conditions from Lake Worth, FL

