



Gulf of Mexico Harmful Algal Bloom Bulletin

8 January 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: January 5, 2007

Conditions Report

A harmful algal bloom has been identified in patches from southern Sarasota to Collier County and in Monroe County, north and west of the Keys. Patchy moderate impacts are possible today in Lee County, with patchy low impacts possible in Sarasota County. Patchy very low impacts are possible in southern Sarasota and Lee County Tuesday through Thursday. Patchy low impacts are expected for the gulf side of the Lower Keys today through Thursday. No other impacts are expected throughout the week in the identified bloom regions.

Analysis

A harmful algal bloom persists in patches from southern Sarasota to Collier County and offshore of Monroe County. Recent sampling results have indicated present to "low b" concentrations in Sarasota, Charlotte, Lee, and Collier Counties. Very low concentrations were reported at Englewood Beach in Charlotte County on 1/4 (FWRI). Imagery from January 7 continues to indicate elevated chlorophyll levels offshore of Collier County, with a central location of 25°41'14"N 81° 29'2"W. Southerly transport of the bloom is possible throughout the week.

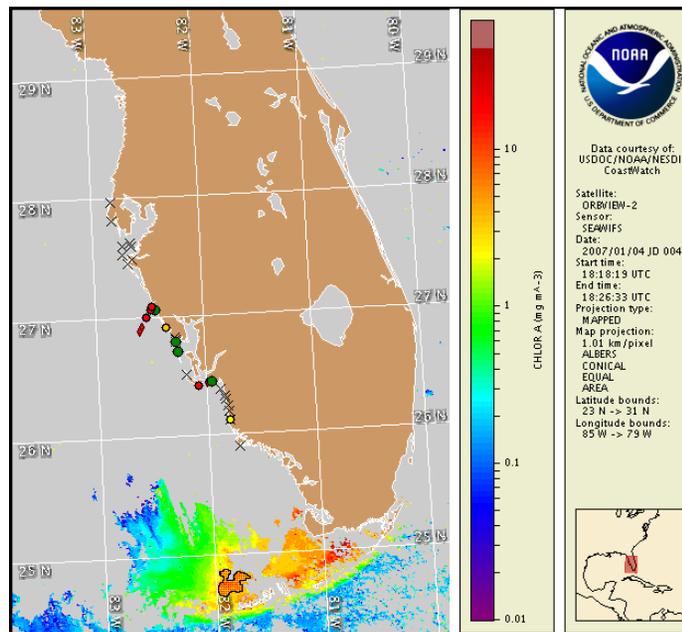
Low to medium concentrations have been confirmed offshore of Monroe county on the gulf side of the keys from Key West to Cudjoe Key (1/2; FWRI). Imagery indicates a patch of elevated chlorophyll north of the lower keys. Continued sampling is recommended. Northerly winds throughout the week may increase coastal impacts for the gulf side of the Lower Keys.

*Note: Due to technical difficulties, the imagery shown in this bulletin is dated January 4. Recent imagery will be sent when available.

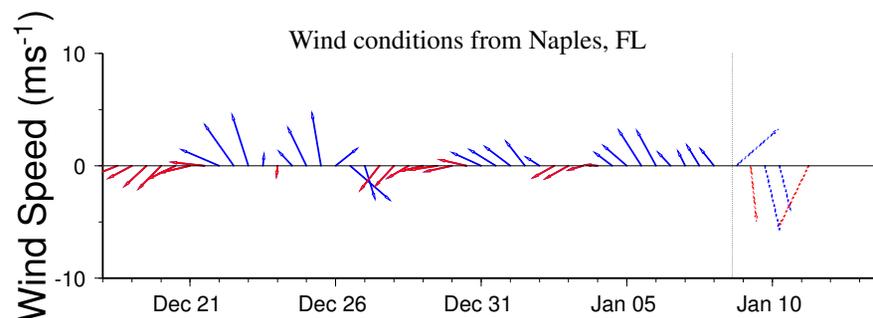
~Keller, Allen

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.



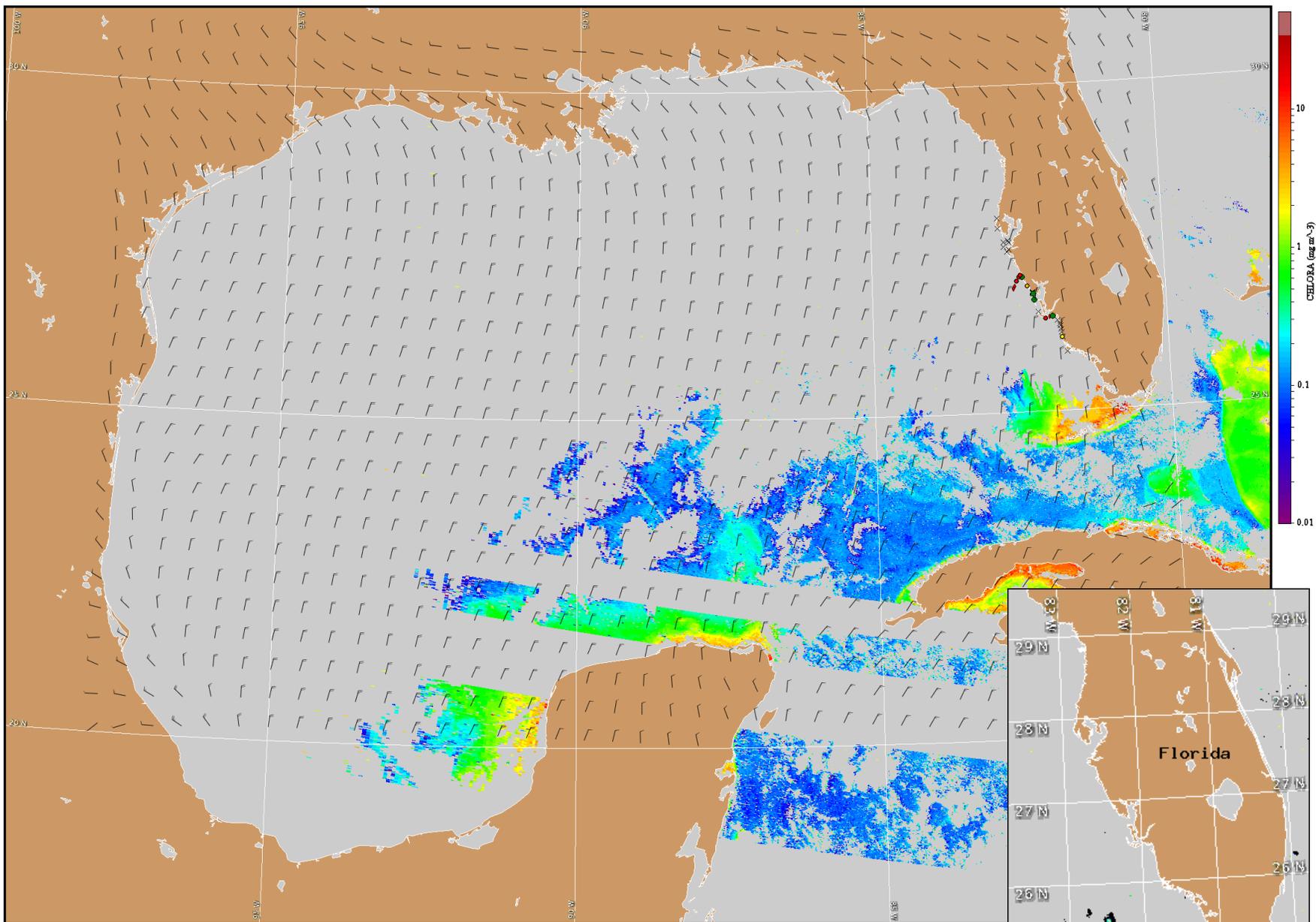
Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit <http://research.myfwc.com>. Cell concentration sampling data from December 29-January 4 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).



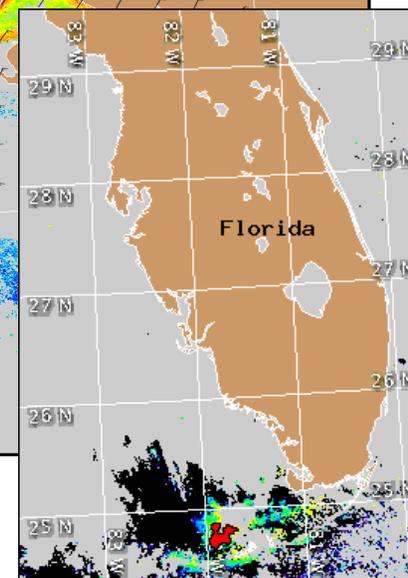
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Southwesterly winds today, with northerly winds tonight through Tuesday (15-20 knots; 8-10 m/s). Northeasterly winds on Wednesday, with easterly winds Wednesday night through Thursday (15-20 knots; 8-10 m/s).

Florida Keys: Southeasterly to southerly winds today, with northerly winds tonight through Wednesday (10-20 knots; 5-10 m/s). Northeasterly winds on Wednesday night becoming easterly on Thursday (15-20 knots; 8-10 m/s).

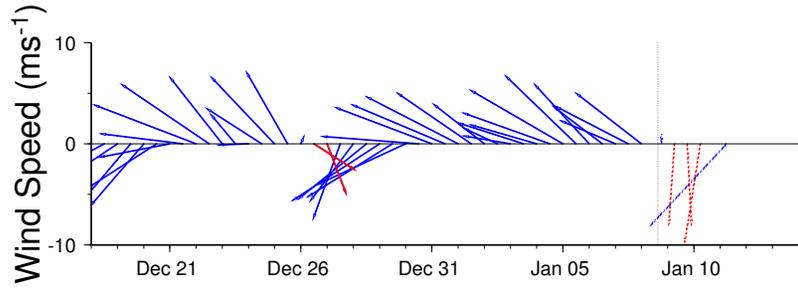


Satellite chlorophyll image and forecast winds for January 9, 2007 12Z with cell concentration sampling data from December 29-January 4 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



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

Wind conditions from Sand Key, FL



Wind conditions from Venice Pier, FL

