

# Gulf of Mexico Harmful Algal Bloom Bulletin

10 March 2008

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: March 3, 2008

## Conditions Report

**SW Florida:** A harmful algal bloom has been identified in northern Monroe County. In northern Monroe County patchy very low impacts are possible today through Thursday. No other impacts are expected elsewhere in southwest Florida today through Thursday, March 13.

**E Florida:** There is currently no indication of a harmful algal bloom in east Florida. No impacts are expected today through Thursday, March 13.

## Analysis

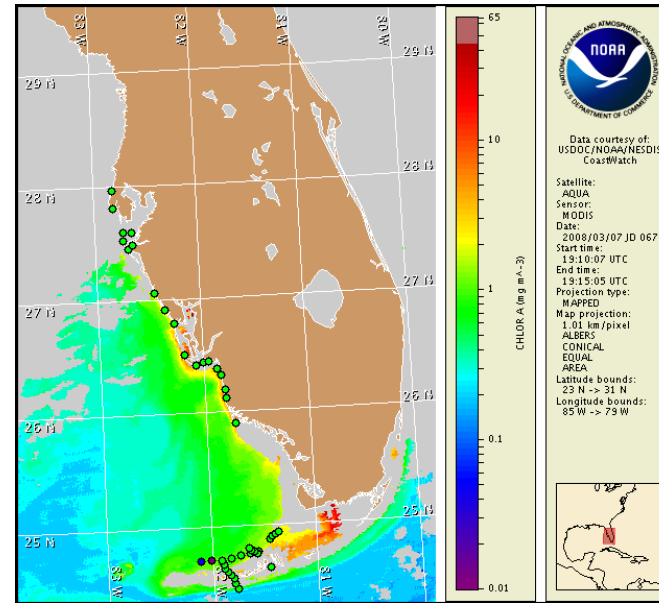
**SW Florida:** A harmful algal bloom has been identified in northern Monroe County, southwest of Pavilion Key. No new samples have been received from this region in the past 10 days. MODIS imagery (3/7) is obscured by clouds along the coast in southern Collier and Monroe Counties. Sampling is recommended. Northwest of the Florida Keys, results of two samples (one taken 15 nm northwest of Key West and another taken 7 nm north of Marquesas Keys) indicate 'very low' concentrations of *Karenia brevis* (MML 3/5). Numerous samples taken within 10 nm of Key West and north of the Florida Keys indicated that *K. brevis* is not present (MML 3/5-6). MODIS imagery has recently been obscured by clouds in this region limiting analysis at this time. Continued sampling is recommended. Sample results from onshore Pinellas, Manatee, Sarasota, Charlotte, Lee and northern Collier Counties indicate that *K. brevis* is not present and that numerous species of non-harmful algae are present at varying concentrations (FWRI, 3/3-6; SCHD, 3/3).

Please note that due to technical difficulties, SeaWiFS imagery is temporarily unavailable; MODIS imagery is displayed on pages 1 and 2 of this bulletin.

Urizar, Fenstermacher

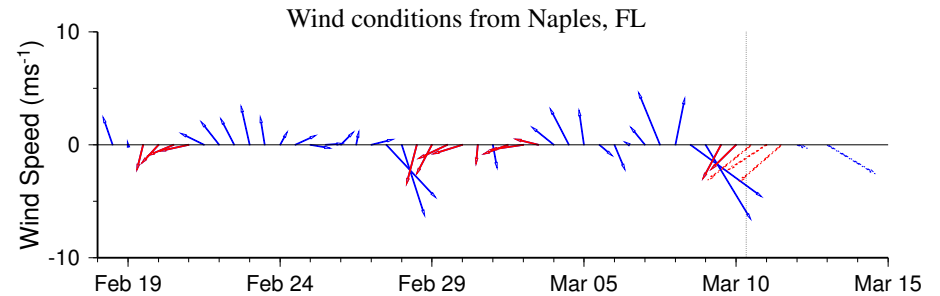
Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

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 sampling data from March 3 to 6 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide:

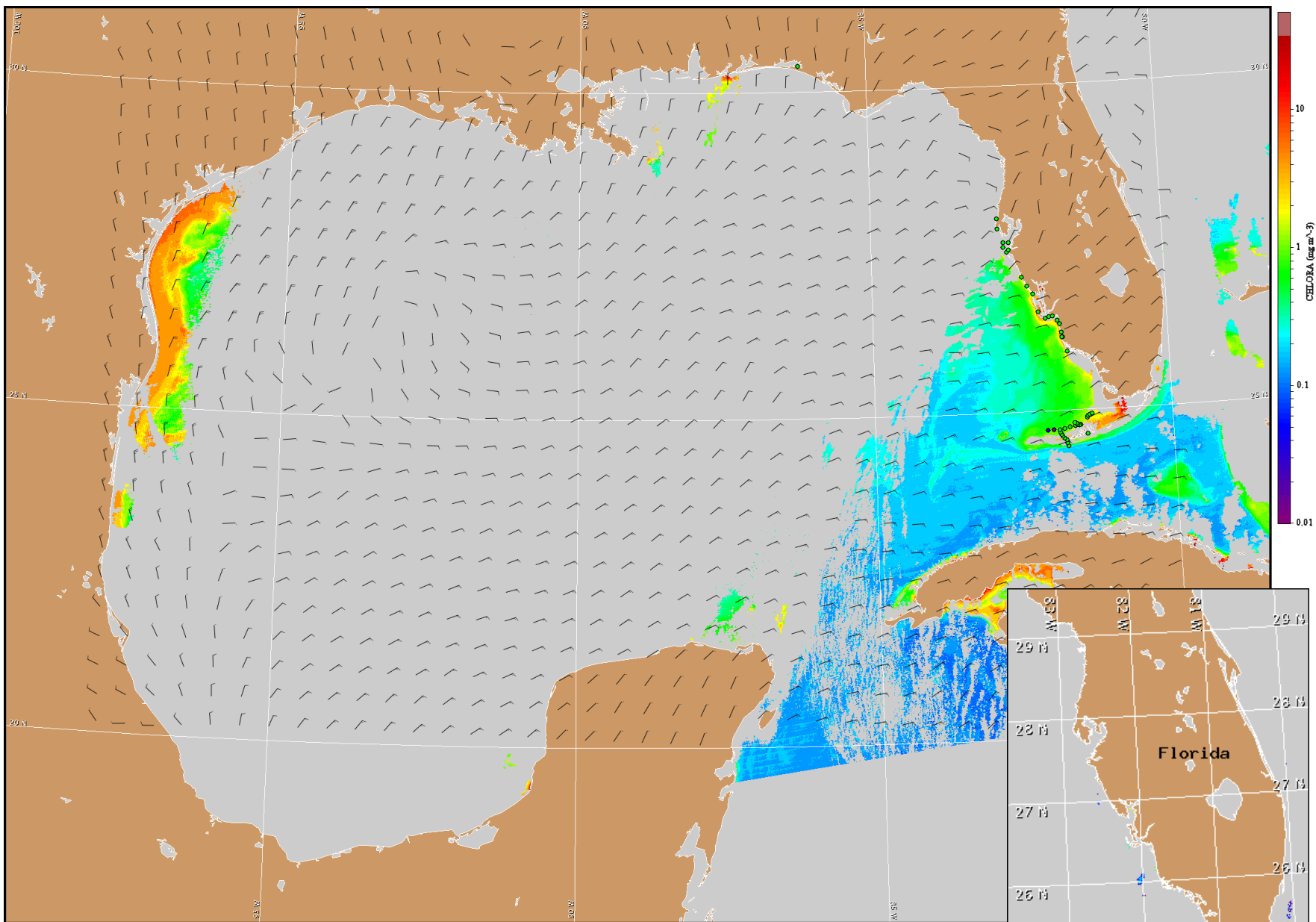
[http://www.csc.noaa.gov/crs/habf/habfs\\_bulletin\\_guide.pdf](http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf)



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:** Easterly winds today (10-15 kn, 5-8 m/s). Northeasterly winds Tuesday (5-10 kn, 3-5 m/s). Northerly winds Wednesday and westerly winds Wednesday afternoon and evening (5 kn, 3 m/s). Easterly winds Thursday and southeasterly winds Thursday afternoon and evening (5-10 kn). Southerly winds Friday (10-15 kn).

**Florida Keys:** Northeasterly to easterly winds today and Tuesday (10-15 kn). Easterly to southeasterly winds Wednesday (10 kn, 5 m/s). Southeasterly winds Thursday and Friday (10 kn).



Satellite chlorophyll image and forecast winds for March 11, 2008 12Z with Cell concentration sampling data from March 3 to 6 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: [http://www.csc.noaa.gov/crs/habf/habfs\\_bulletin\\_guide.pdf](http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf)

Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).

Wind conditions from Vaca Key, FL

