

Gulf of Mexico Harmful Algal Bloom Bulletin

3 March 2008

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: February 25, 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 and Thursday, and patchy low impacts are possible Tuesday, Wednesday and Friday. No other impacts are expected elsewhere in southwest Florida through Friday, March 7.

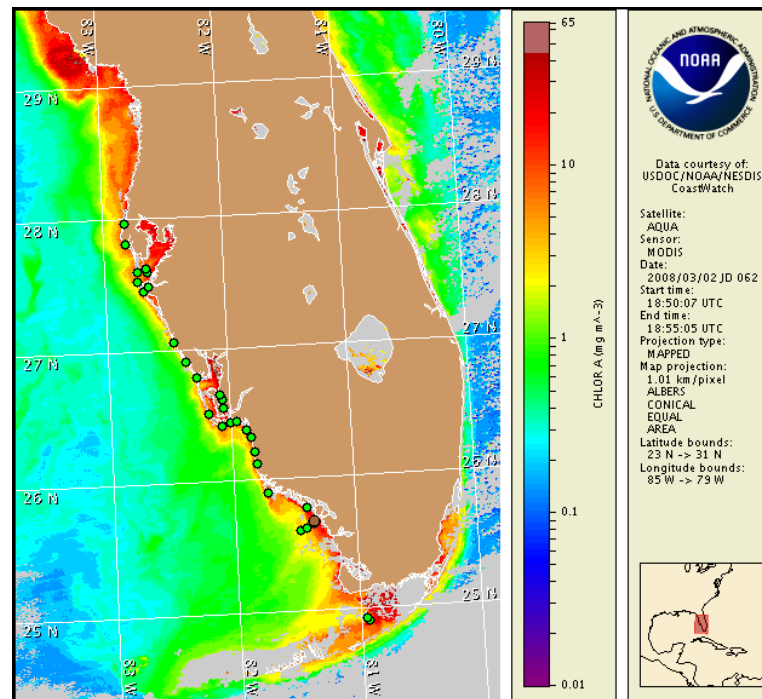
E Florida: There is currently no indication of a harmful algal bloom in east Florida. No impacts are expected today through Friday, March 7.

Analysis

A harmful algal bloom has been identified in northern Monroe County, southwest of Pavillion Key. Recent sampling results (MML; 2/26) indicate low concentrations of *K. brevis* approximately one mile southwest of Pavillion Key. MODIS imagery (3/2) indicates a band of high chlorophyll (>10µg/L) extending along the coast of Monroe County from 25°51'26"N 81°34'6"W to 25°44'42"N 81°23'23"W. Imagery also indicates a high chlorophyll patch slightly further south with a central location of 25°34'41"N, 81°19'47"W (>10µg/L.) Continued sampling is recommended. Northward transport of the bloom is possible today, Tuesday and Thursday. Southerly winds throughout the week may increase the possibility of coastal impacts.

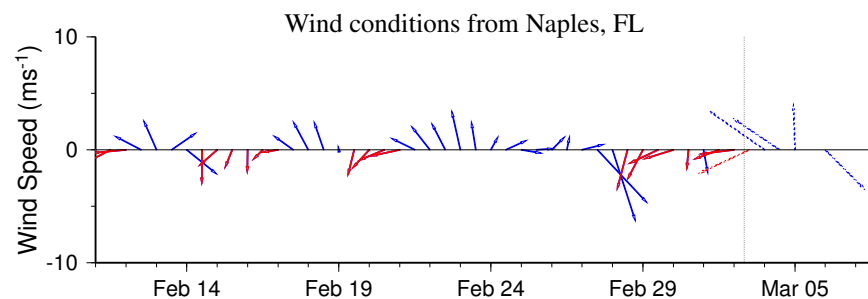
Please note that due to technical difficulties, SeaWiFS imagery is temporarily unavailable; MODIS imagery is displayed on pages 1 and 2 of this bulletin.

~Keller, Fisher



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from February 24 to 27 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

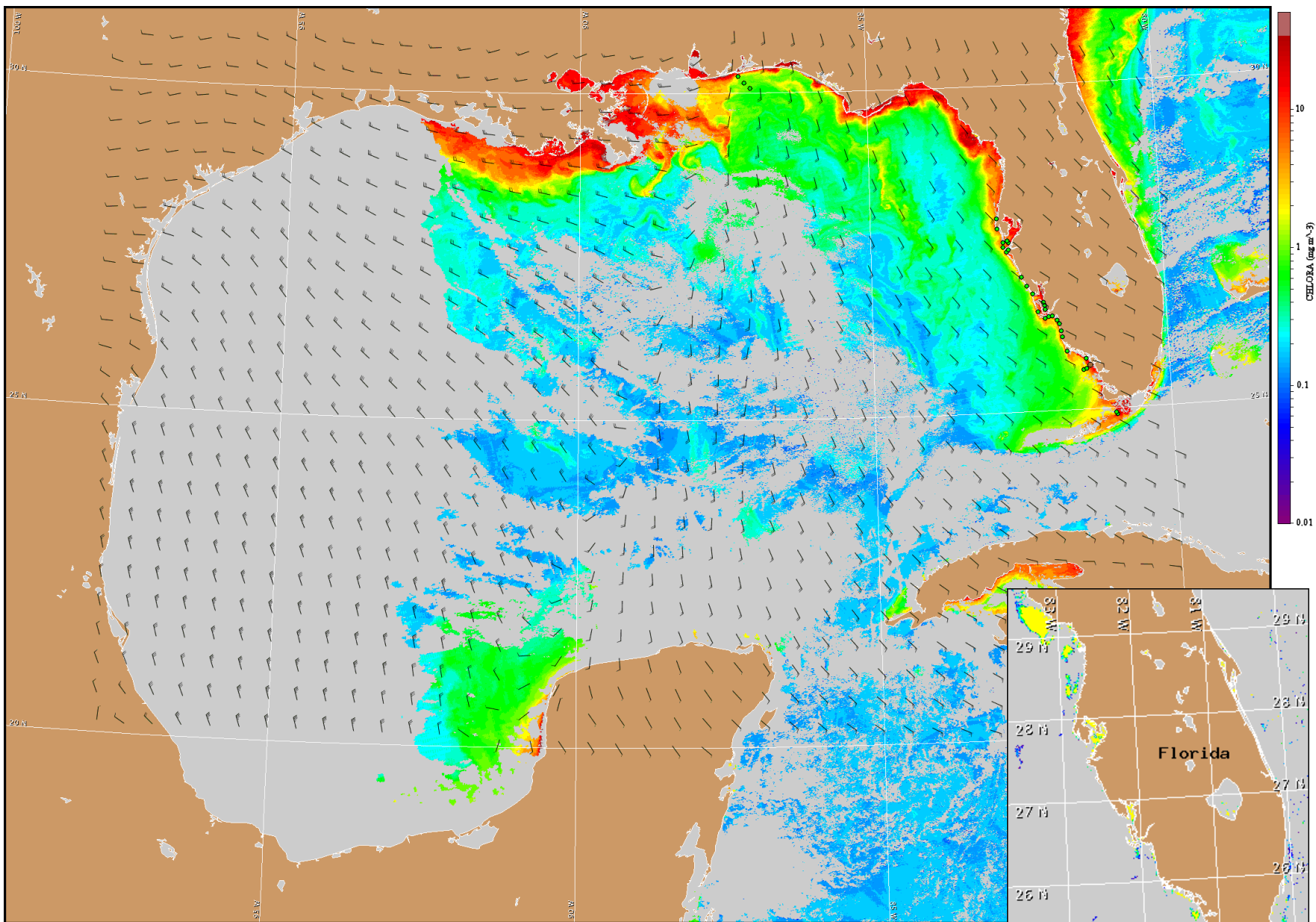


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Southeasterly winds today (10-15kn; 5-8 m/s). Southerly winds on Tuesday (10-15kn; 5-8 m/s), with southwesterly winds in the evening. Westerly winds on Wednesday (5-10 kn; 3-8 m/s), followed by southwesterly winds in the evening. Southeasterly to southerly winds on Thursday (5-10 kn;3-5 m/s) and southwesterly winds on Friday (10-15 kn; 5-8 m/s).

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 and forecast winds for March 4, 2008 12Z with Cell concentration sampling data from February 24 to 27 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

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