



Gulf of Mexico Harmful Algal Bloom Bulletin

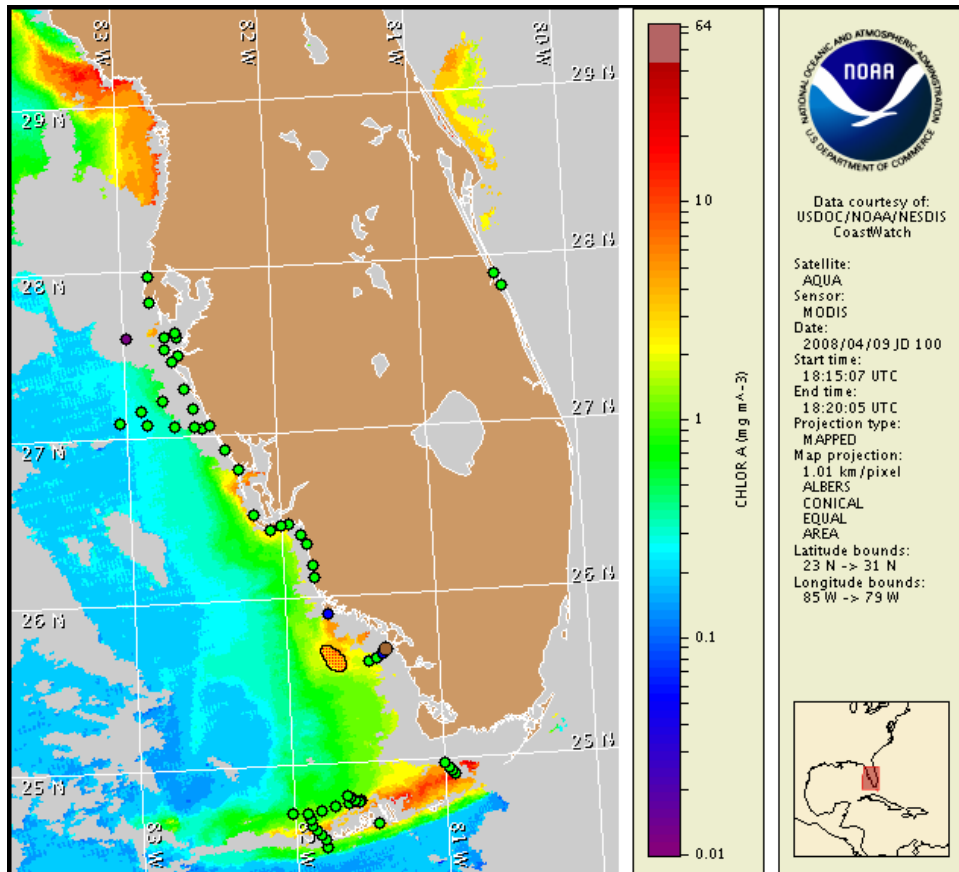
Region: South Florida

10 April 2008

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: April 8, 2008



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from March 31 to April 9 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

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.

Conditions Report

A harmful algal bloom has been identified in central Collier County and in northern Monroe County and harmful algae has been identified in bay regions of northern Sarasota County. In central Collier County, no impacts are expected today and tomorrow, and patchy very low impacts are possible Friday night through Sunday. In northern Monroe County, patchy very low impacts are possible today, tomorrow and Sunday and patchy low impacts are possible Friday night and Saturday. In bay regions of northern Sarasota County, patchy very low impacts are possible today through Sunday. No additional impacts are expected elsewhere alongshore southwest Florida today through Sunday, April 13.

Analysis

SW Florida: A harmful algal bloom has been identified in central Collier County and northern Monroe County. Additionally, harmful algae have been identified in northern Sarasota County at New Pass (MML 4/9); MODIS imagery is obscured in this region.

Samples collected southwest of Pavilion Key in Monroe County contained 'low a' and 'very low b' concentrations of *Karenia brevis* (MML 4/8). MODIS imagery has been cloudy alongshore and offshore Monroe County throughout the past week making bloom analysis difficult. Additional samples collected in the Florida Keys (near Oxfoot and Sawyer Keys) indicate that *K. brevis* is not present (Mote 4/2, 4/9).

Recent samples collected alongshore central Collier County at Marco Island contained 'very low b' levels of *K. brevis* (FWRI 4/7). Recent MODIS imagery (4/9) is obscured by clouds onshore central Collier County; however an elevated chlorophyll feature ($> 3.0 \mu\text{g/L}$) previously identified on 3/31 remains visible. The feature appears to have moved closer to shore (central point is approximately 13 mi south of Cape Romano), and it extends from 25°43'13"N, 81°47'40"W to 25°36'14"N, 81°38'24"W.

Neither bloom intensification nor transport are expected Friday through Sunday, April 13.

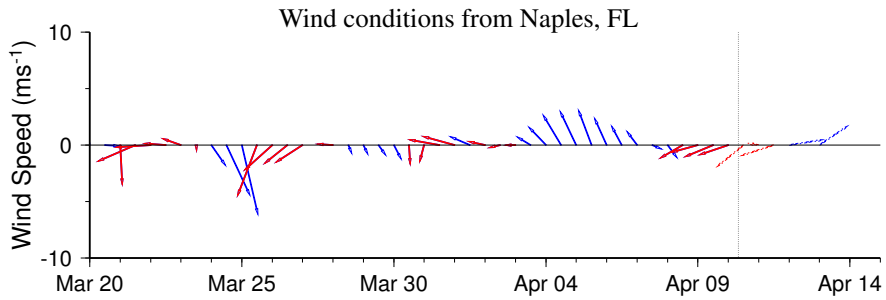
Please note that due to technical difficulties, SeaWiFS imagery is temporarily unavailable; MODIS imagery is displayed on pages 1 and 2 of this bulletin.

Urizar, Fisher

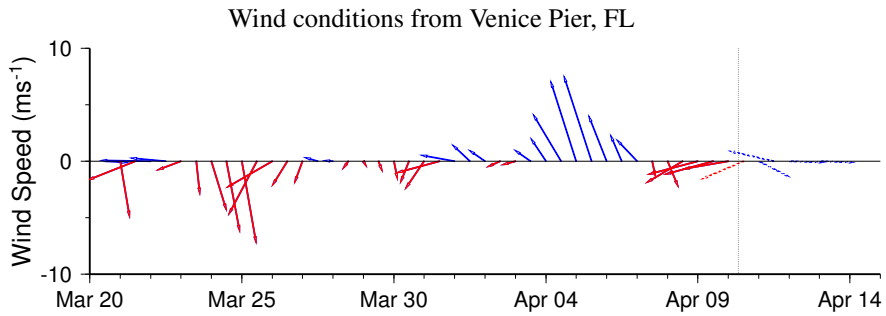
Wind Analysis

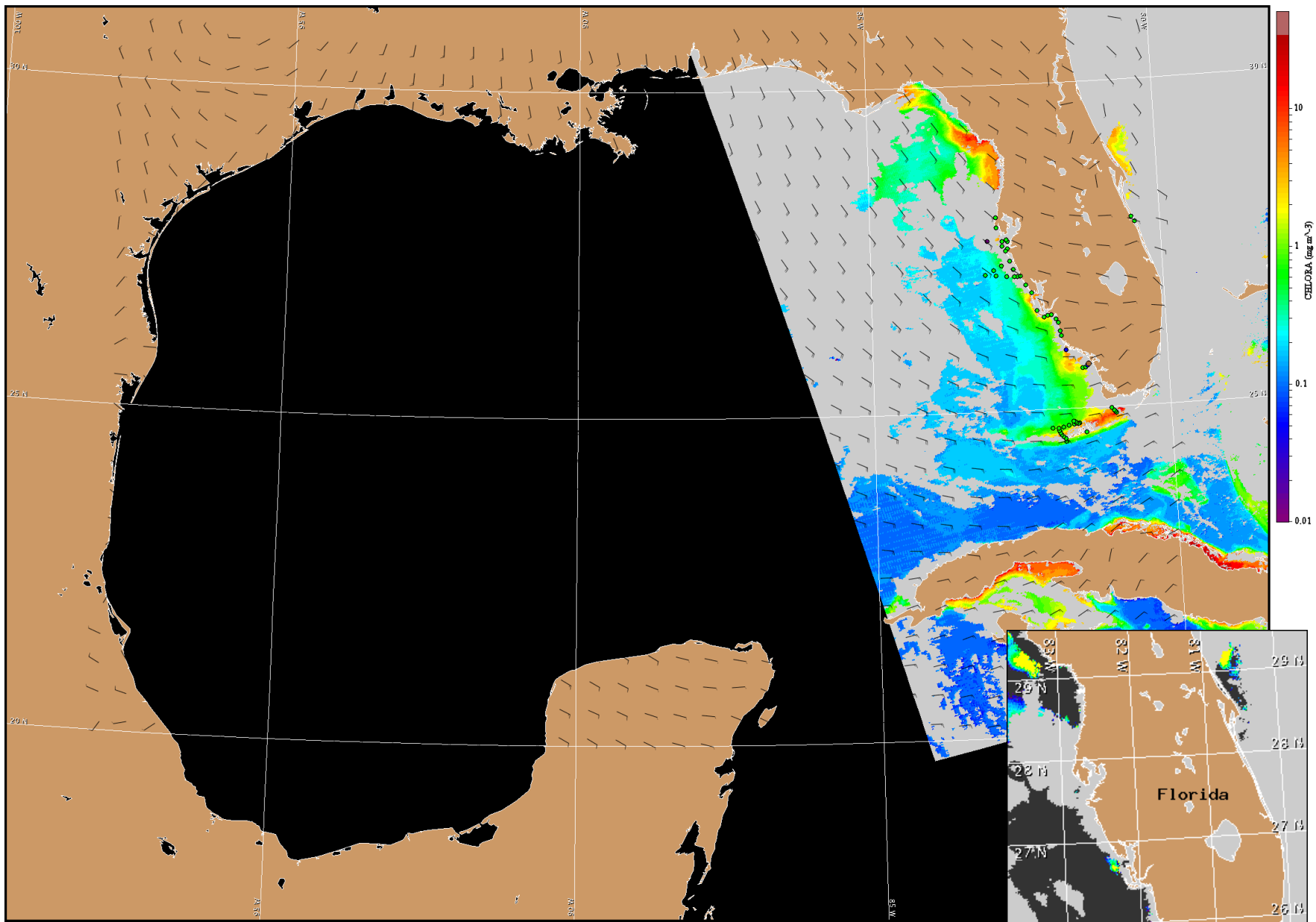
Central Collier and northern Monroe Counties: Easterly winds today and Friday (5-15 kn). Southerly winds Friday night and Saturday (5-10 kn). Westerly winds Saturday night (5 kn, 3 m/s). Northwestern winds Sunday (10-20 kn, 5-10 m/s).

Northern Sarasota County: Variable onshore winds today (5-10 kn, 3-5 m/s). Southeast winds Friday (10 kn, 5 m/s). Southerly to southwesterly winds on Saturday (5-15 kn, 3-8 m/s). Northwestern winds on Sunday (20 kn, 10 m/s).

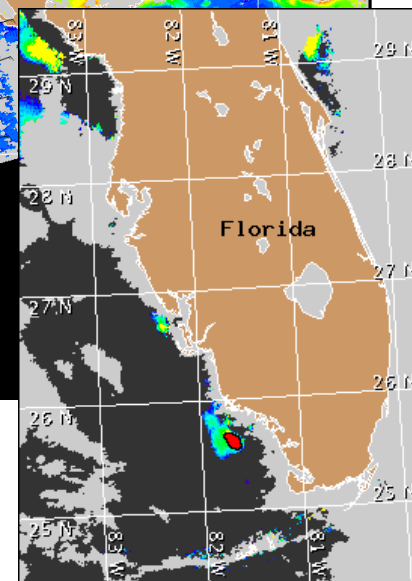


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.





Satellite chlorophyll image and forecast winds for April 11, 2008 12Z with Cell concentration sampling data from March 31 to April 9 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).