



Gulf of Mexico Harmful Algal Bloom Bulletin

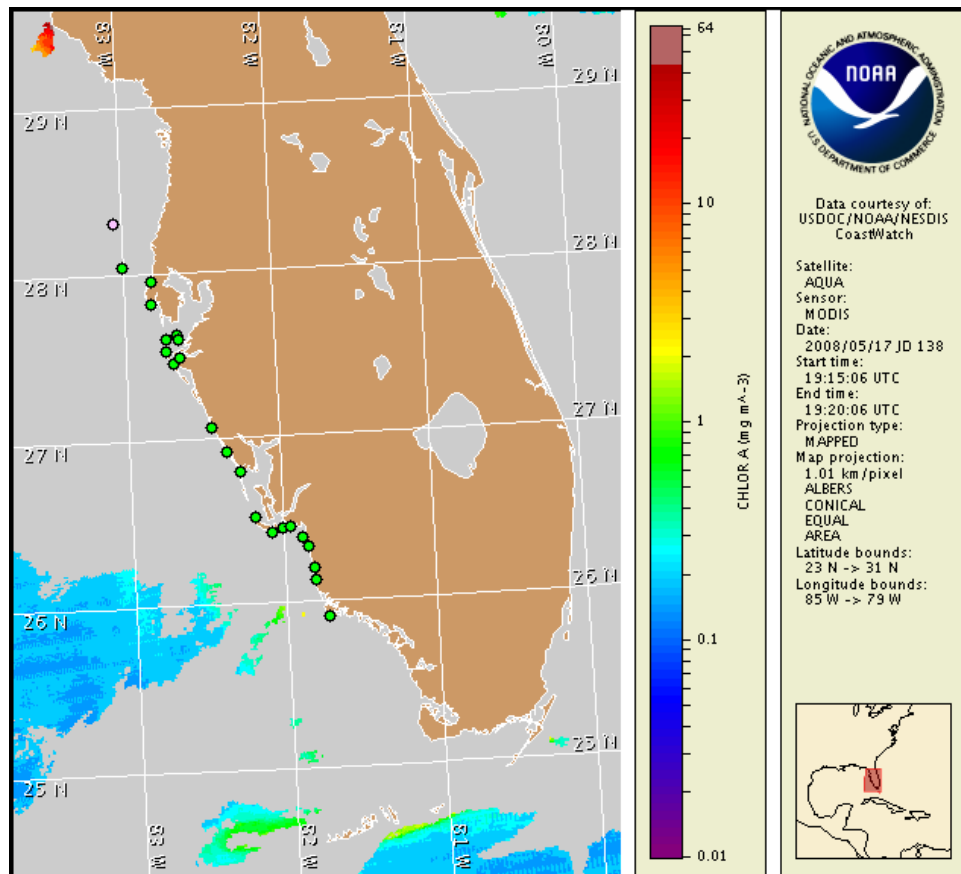
Region: South Florida

19 May 2008

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: May 12, 2008



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from May 10 to 15 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

Conditions Report

There is currently no indication of a harmful algal bloom alongshore southwest Florida. No impacts are expected today through Sunday, May 25.

Analysis

There is currently no indication of a harmful algal bloom at the coast in southwest Florida. No *Karenia brevis* was identified in samples collected onshore last week from Pinellas to Collier County. Background concentrations of *K. brevis* were identified approximately 20 miles offshore Pasco County on 5/13 (FWRI). An elevated chlorophyll feature remains present approximately 15 miles west of this confirmed *K. brevis* concentration according to SeaWiFS imagery (5/13). This feature will continue to be monitored. More recent satellite imagery is predominantly obscured by clouds. However, an elevated chlorophyll (6-9 $\mu\text{g/L}$) feature is visible in SeaWiFS imagery (5/17) approximately 4-8 miles offshore central Collier County, with a central location of 25°58'53"N 81°50'35"W. No additional information is available at this time. Sampling is recommended. Bloom formation at the coast is unlikely through Friday.

Please note that due to past technical difficulties, SeaWiFS imagery is temporarily unavailable for display on this bulletin; MODIS imagery is shown on pages 1 and 3 of this bulletin.

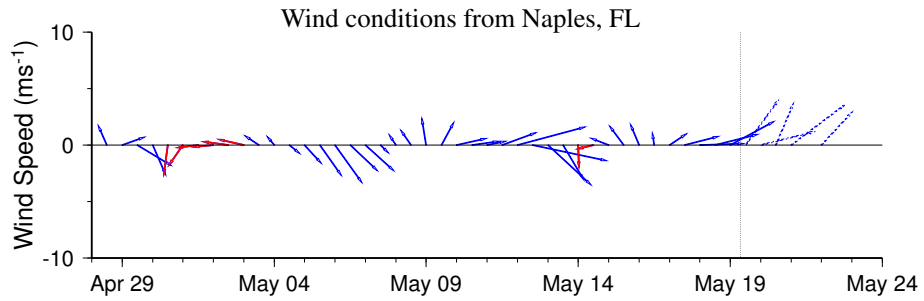
~Fisher, Lindley, Fenstermacher

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

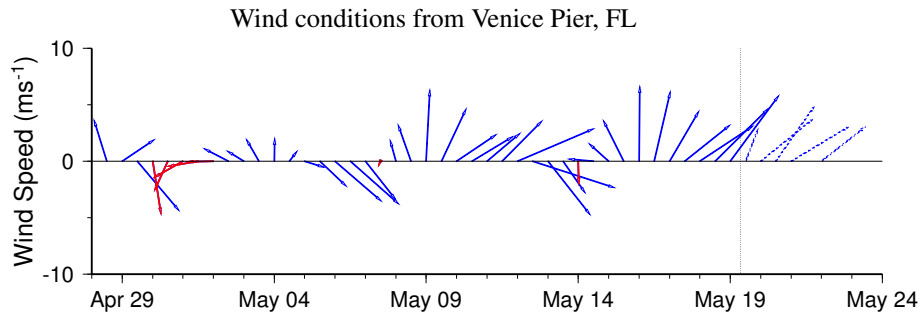
1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.

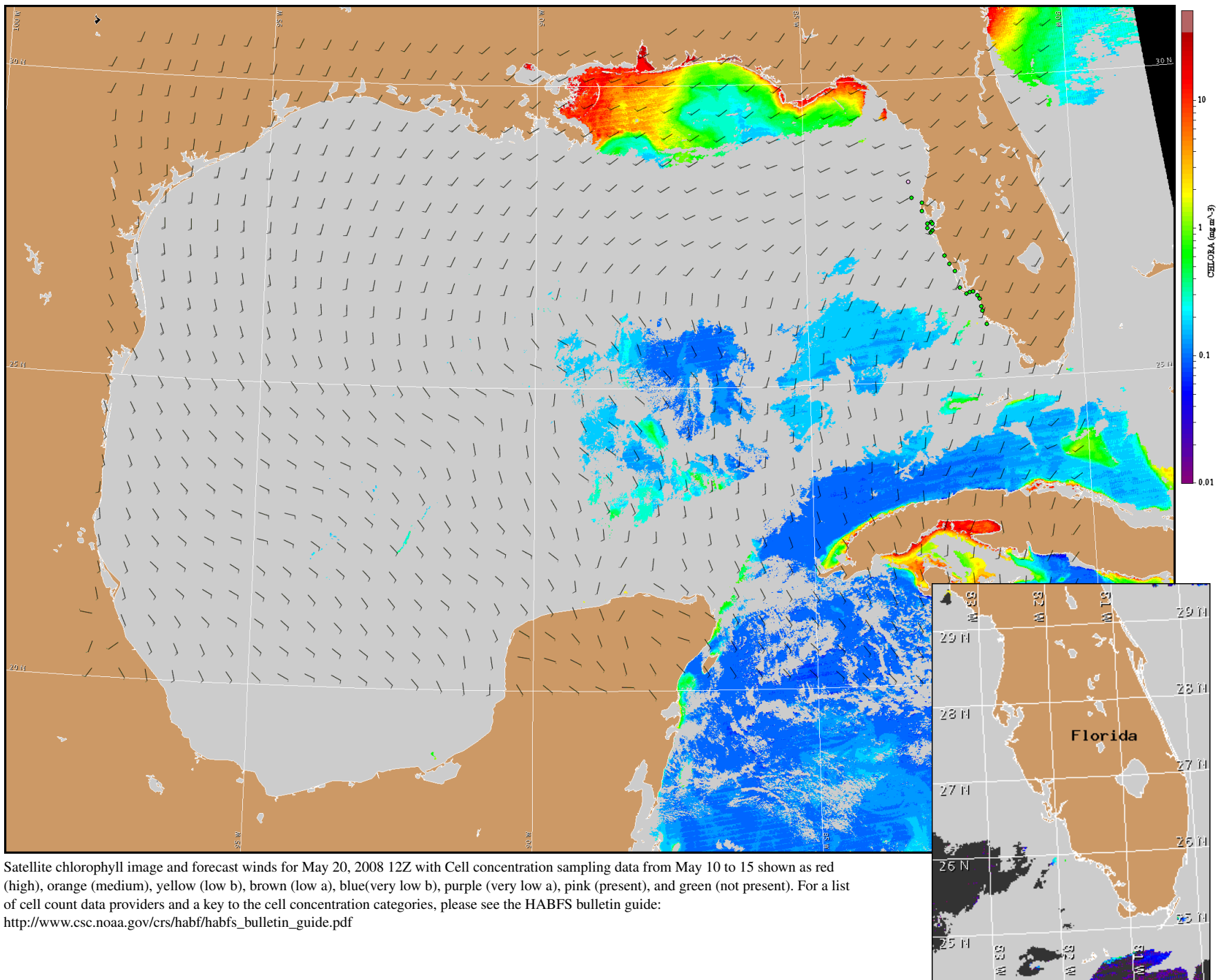
Wind Analysis

West winds today (10-15kn, 5-8m/s) becoming southwest (5-10kn, 3-5m/s) this afternoon through Thursday. North to west winds Thursday night and Friday (5-10kn).



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 May 20, 2008 12Z with Cell concentration sampling data from May 10 to 15 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).