



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

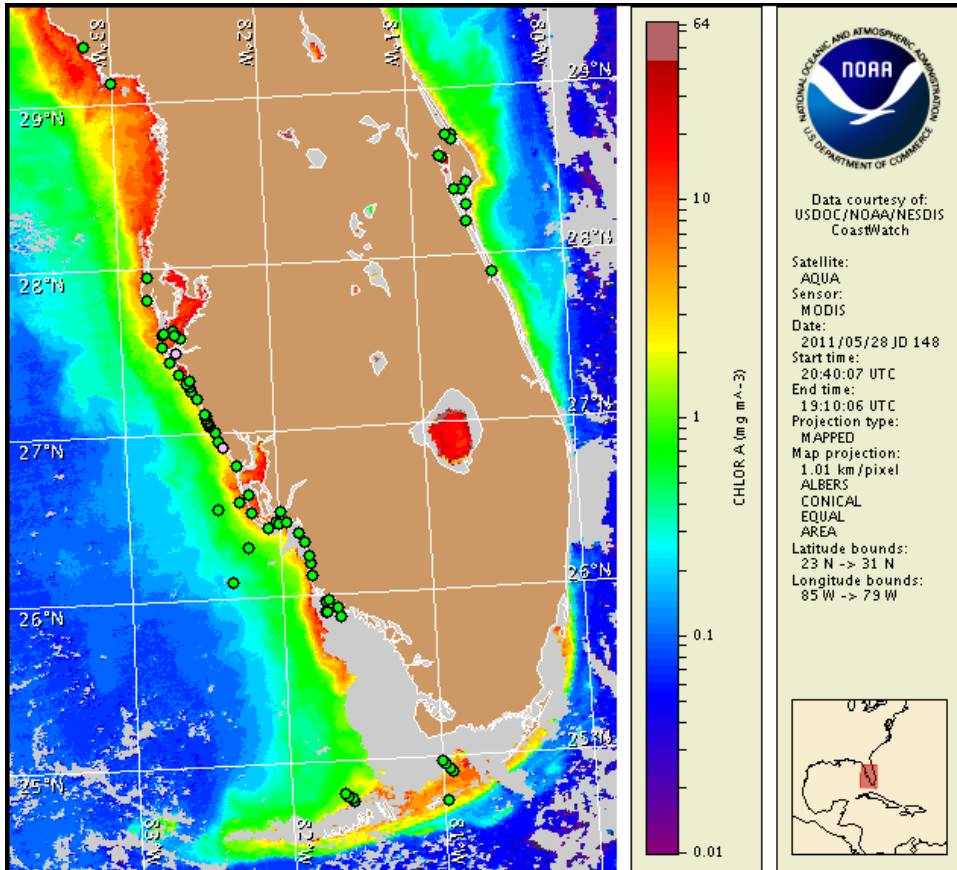
Tuesday, 31 May 2011

NOAA Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, May 23, 2011



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from May 21 to 26 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 HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:

<http://tidesandcurrents.noaa.gov/hab/bulletins.html>

Conditions Report

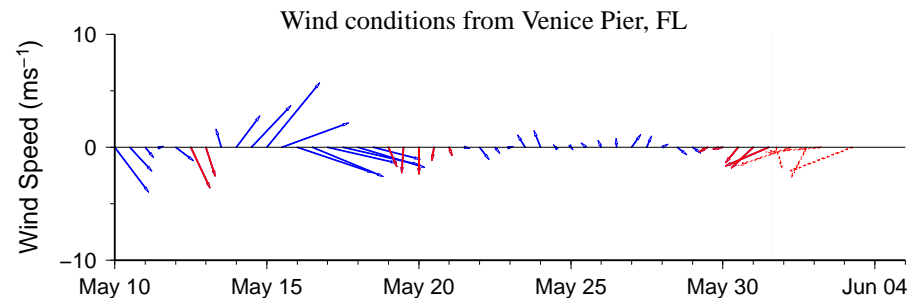
There is currently no indication of a harmful algal bloom at the coast in southwest Florida, including the Florida Keys. No impacts are expected alongshore southwest Florida today through Sunday, June 5.

Analysis

There is currently no indication of a harmful algal bloom at the coast along southwest Florida, including the Florida Keys. Last week, background concentrations of *Karenia brevis* were identified in one sample taken at Engelwood Beach in Charlotte County and one sample taken in the Palma Sola Bay region of Manatee County (FWRI 5/24). *K. brevis* was not identified in samples collected elsewhere alongshore from Pinellas to Collier Counties, Dixie and Levi Counties, the Florida Keys, or offshore Pinellas, Lee, and Collier Counties (FWRI, MML, SCHD; 5/19-26). MODIS satellite imagery indicates that over the past week, chlorophyll levels have been consistently elevated (2-10 $\mu\text{g/L}$) at the coast throughout southwest Florida. Elevated chlorophyll levels at the coast are likely the result of non-toxic algal blooms that continue to be reported along much of southwest Florida. A large patch of elevated chlorophyll continues to be visible offshore Collier County extending from the Cape Romano region southward to 25° 24.4' N 81° 38.8' W. This patch is unlikely to be associated with a *K. brevis* bloom.

Harmful algal bloom formation is not expected at the coast today through Sunday, June 5.

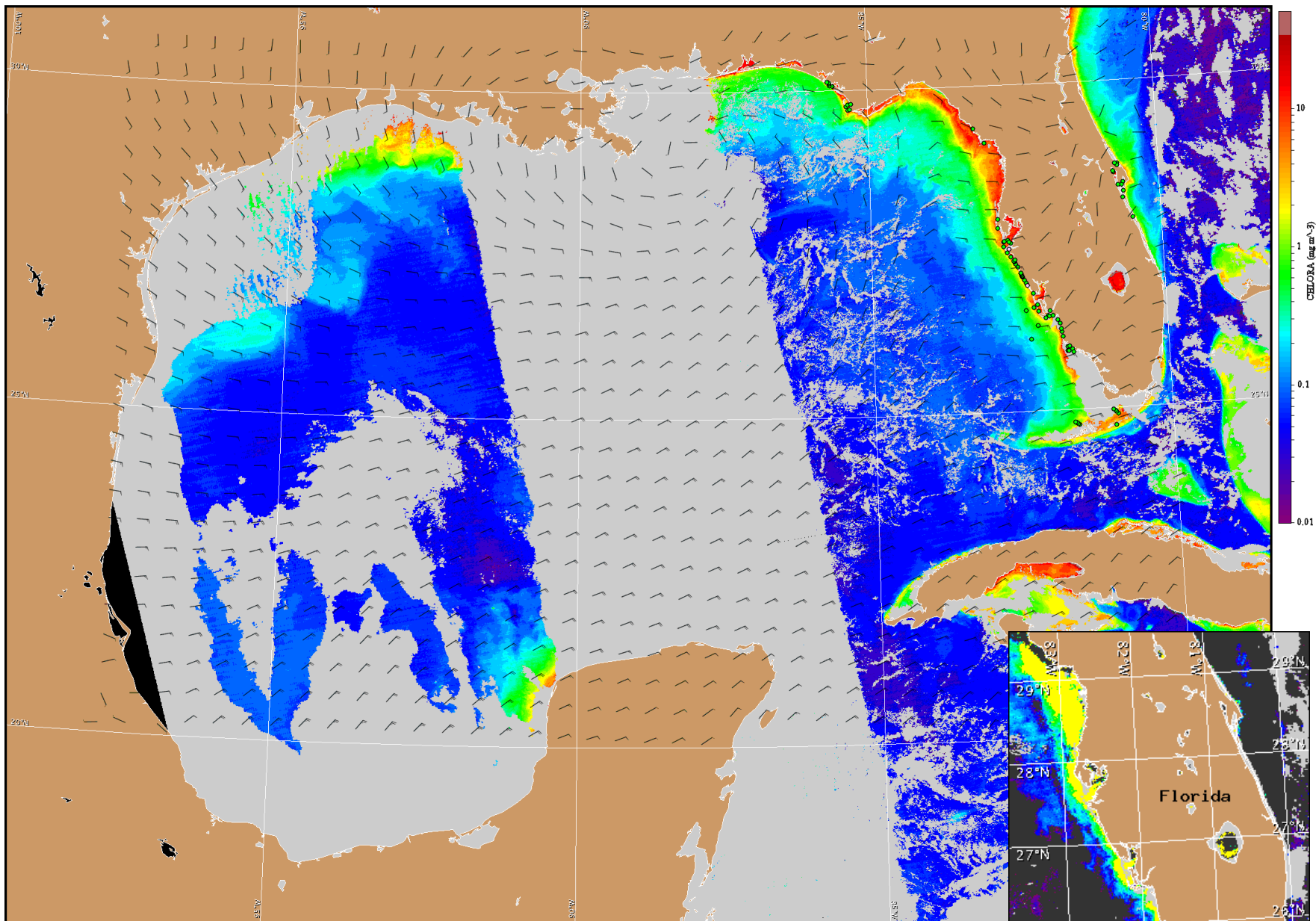
Burrows, Fisher



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. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

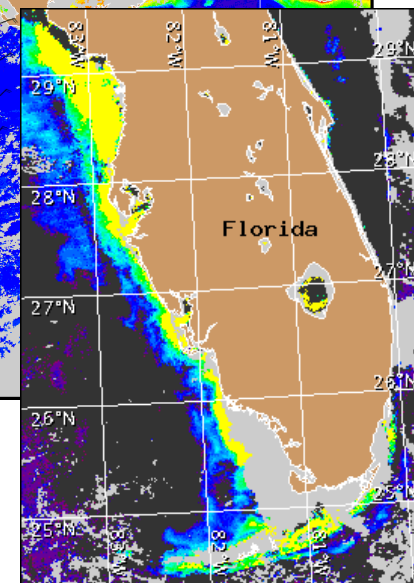
Wind Analysis

Northeast to east winds (10 to 15 kn; 5-8 m/s) today through Thursday. East winds continuing Friday and Saturday (10-15 kn).



Satellite chlorophyll image and forecast winds for June 1, 2011 06Z with cell concentration sampling data from May 21 to 26 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 HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/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).