



Gulf of Mexico Harmful Algal Bloom Bulletin

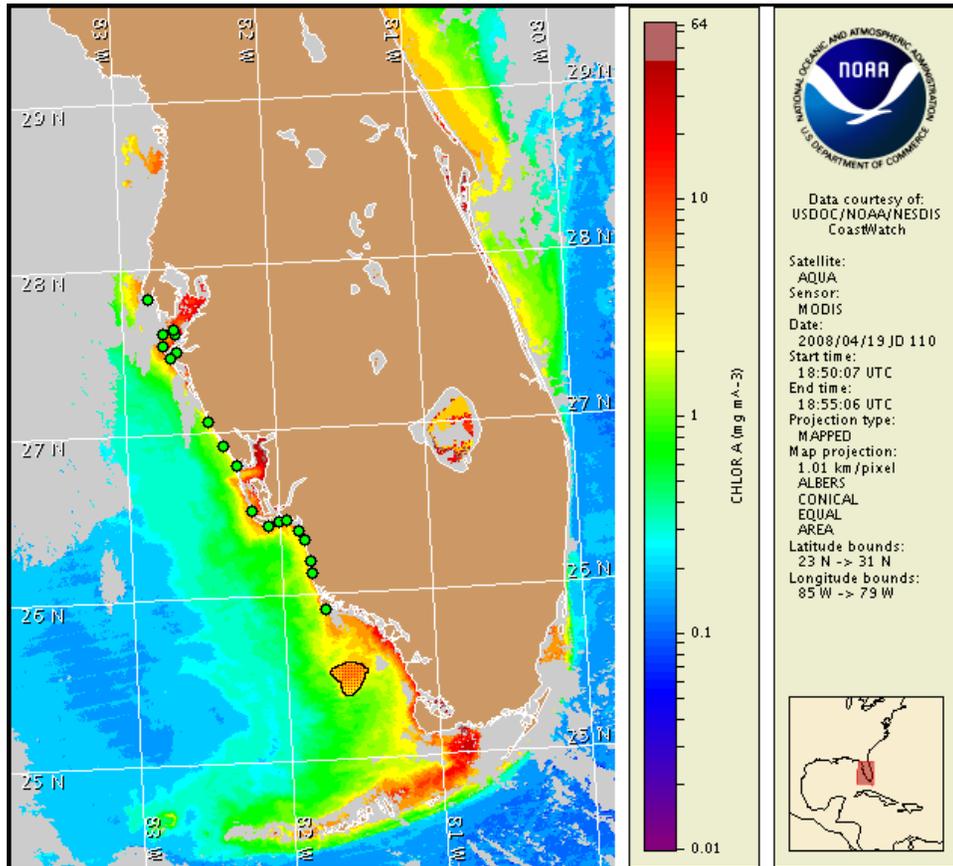
Region: South Florida

21 April 2008

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: April 17, 2008



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from April 14 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

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 northern Monroe County. Patchy very low impacts are possible today through Thursday in northern Monroe County. No additional impacts are expected elsewhere alongshore southwest Florida today through Thursday, April 24.

Analysis

A harmful algal bloom persists in northern Monroe County (very low to low southwest of Pavilion Key, MML, 4/8). No new *Karenia brevis* concentrations have been reported elsewhere in southwest Florida since 4/14 (background concentrations in central Sarasota County, SCHD). No reports of impacts have been received over the past several days. Chlorophyll levels offshore Collier County appear to have weakened (presently $\sim 1 \mu\text{g/L}$) in both SeaWiFS and MODIS imagery (4/19; centrally located at $26^{\circ}4'59''\text{N}$, $82^{\circ}0'26''\text{W}$). An elevated chlorophyll feature (up to $4 \mu\text{g/L}$) remains visible ~ 16 miles offshore northern Monroe County with a central location of $25^{\circ}30'38''\text{N}$, $81^{\circ}35'41''\text{W}$. Sampling is recommended.

A large elevated chlorophyll feature continues to be visible in SeaWiFS imagery (up to $5 \mu\text{g/L}$; 4/20) approximately 20-40 miles offshore Pinellas, Pasco, Hernando and Citrus Counties from $27^{\circ}54'26''\text{N}$, $83^{\circ}34'45''\text{W}$ to $28^{\circ}57'29''\text{N}$, $83^{\circ}47'53''\text{W}$ (south-north axis) and from $28^{\circ}13'45''\text{N}$, $83^{\circ}54'42''\text{W}$ to $28^{\circ}13'1''\text{N}$, $83^{\circ}6'9''\text{W}$ (west-east axis). This feature has been visible in this general location for over 2 months and continues to intensify according to both SeaWiFS and MODIS imagery. This feature continues to maintain its general location, but has expanded slightly eastward.

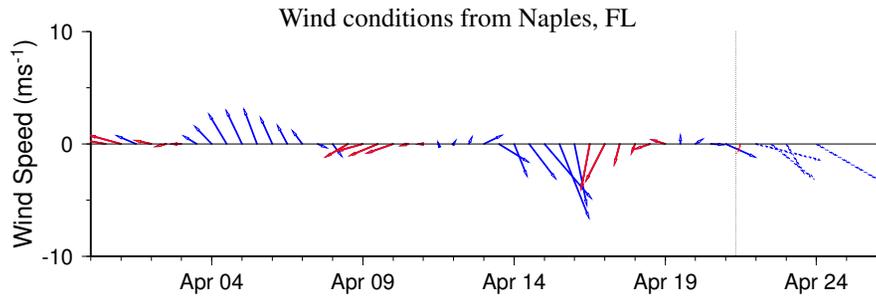
Slight southerly transport of features is possible this afternoon through Wednesday. Conditions are favorable for bloom formation and intensification alongshore southwest Florida beginning on Wednesday.

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.

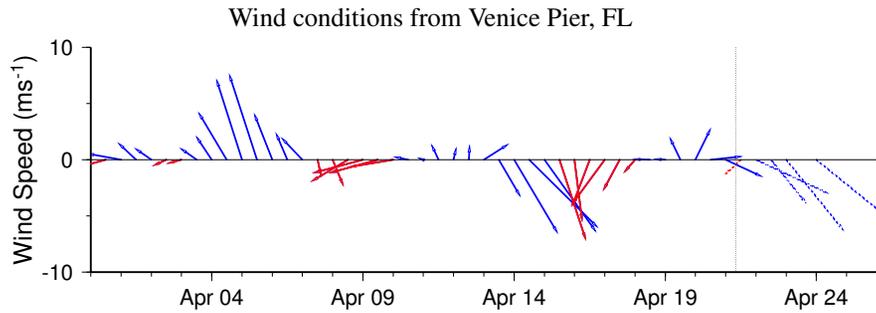
~Fisher, Urizar

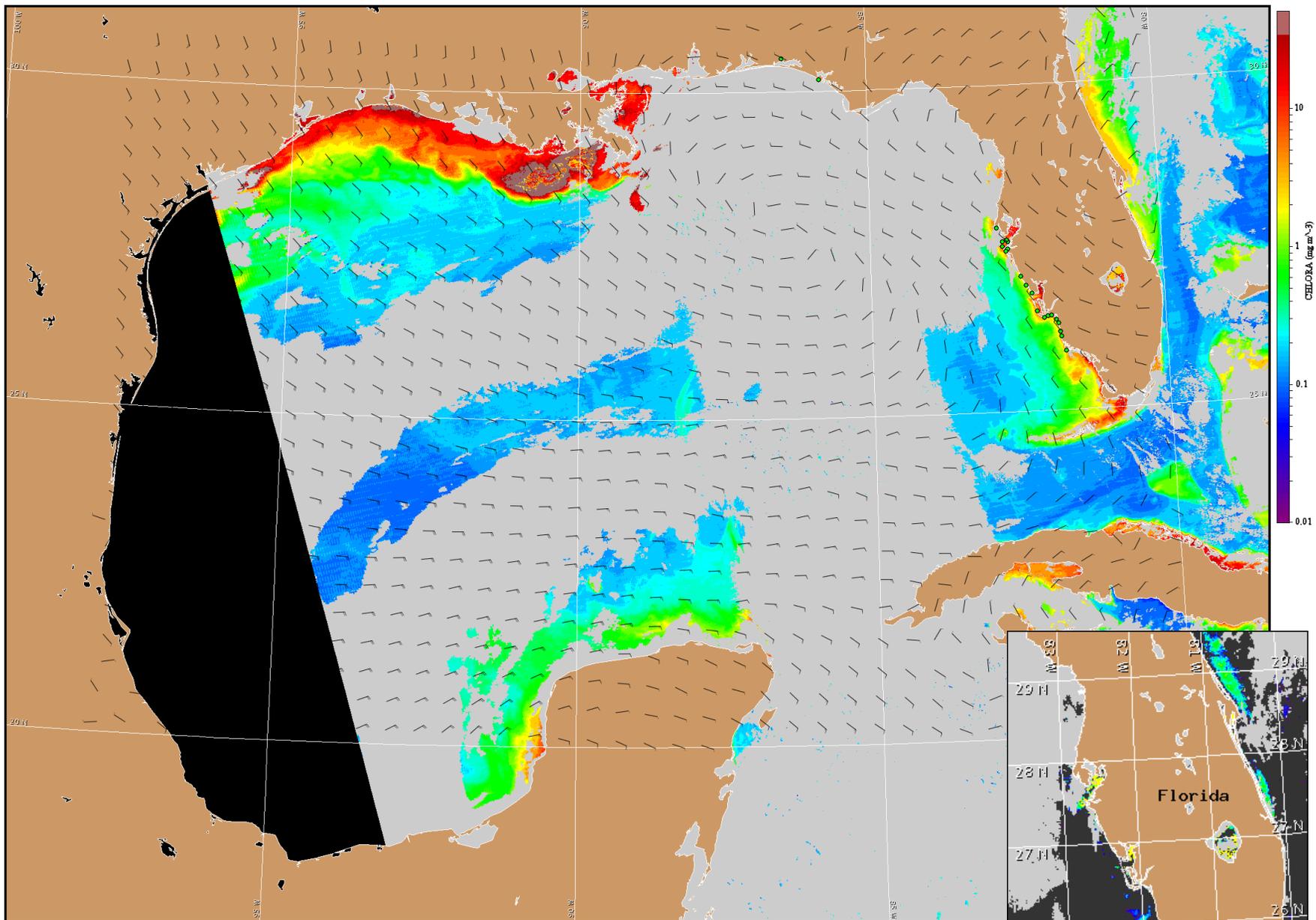
Wind Analysis

Northwest winds today through Tuesday (5-10kn, 3-5m/s). North winds Tuesday night through Wednesday (5-15kn, 3-8m/s). Northeast winds Wednesday night (5-10kn, 3-5m/s). Continued northeast winds expected Thursday.

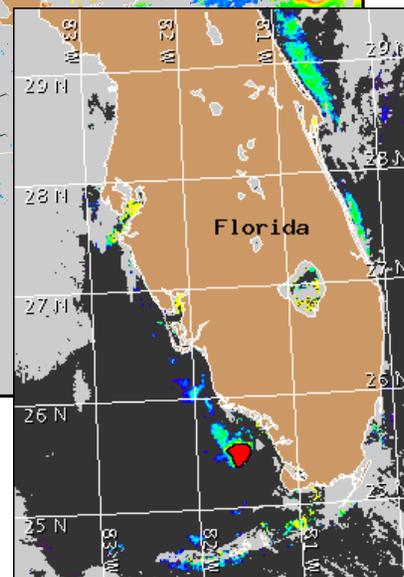


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.





Satellite chlorophyll image and forecast winds for April 22, 2008 06Z with Cell concentration sampling data from April 14 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).