



Gulf of Mexico Harmful Algal Bloom Bulletin

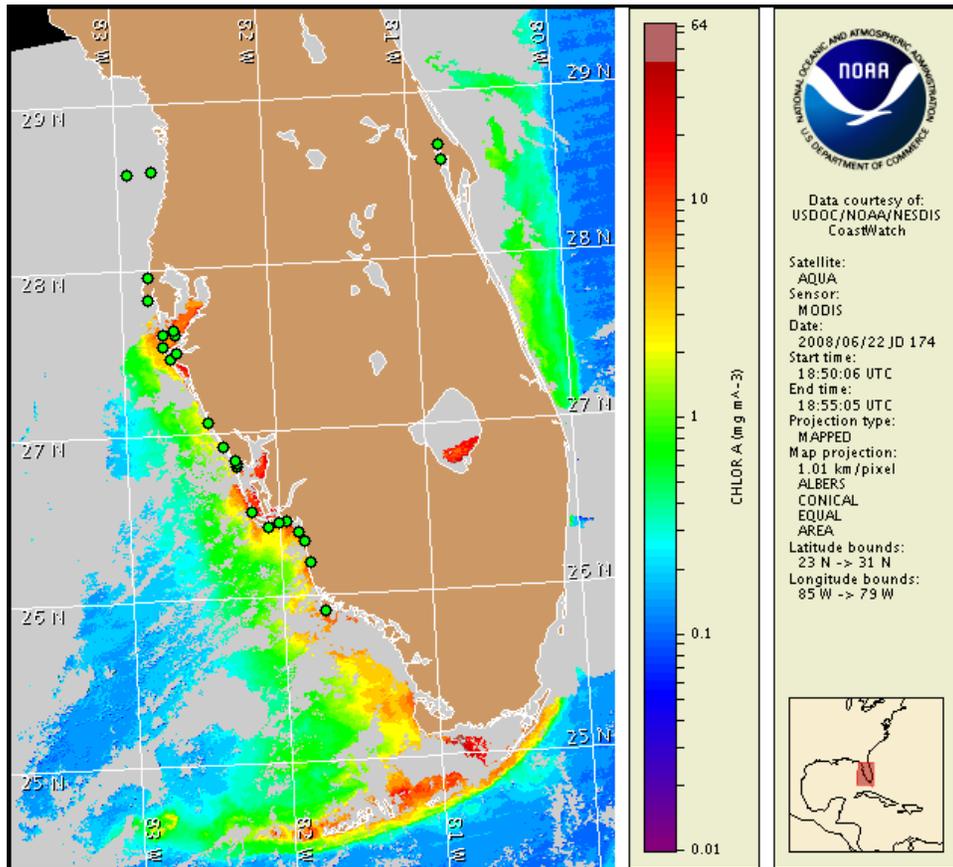
Region: South Florida

23 June 2008

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: June 16, 2008



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from June 13 to 19 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

SW Florida: There is no indication of a harmful algal bloom at the coast in southwest Florida. No impacts are expected alongshore southwest Florida today through Sunday, June 29.

Analysis

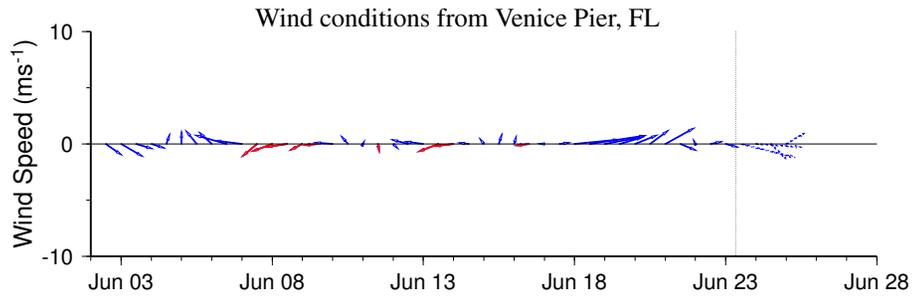
There is currently no indication of a harmful algal bloom at the coast in southwest Florida. No *Karenia brevis* was identified last week alongshore southwest Florida from Pinellas to Collier County (6/16-19; FWRI, SCHD, MML). Patches of elevated to high chlorophyll levels (3-10 $\mu\text{g/L}$) continue to be visible along the coast of Lee and Collier County in recent (6/22) satellite imagery. These features correspond well with recently confirmed areas of non-harmful algal blooms (FWRI, 6/18) and are located at the following coordinates based on MODIS imagery: Lee County- 26°36'59"N 82°17'29"W, 26°23'1"N 82°10'20"W, 26° 25'9"N 81°56'50"W; Collier County- 26°9'35"N 81°51'1"W, a larger mainly obscured patch extends southwest of Marco Island. An elevated chlorophyll feature (2-3 $\mu\text{g/L}$) is also visible in MODIS imagery offshore Cape Sable, Monroe County at 25°20'49"N 81°24'48"W. This feature appears to have moved further south over the past week. Reports of discolored water are possible throughout the week alongshore Lee and Collier Counties due to non-harmful algae. Offshore winds are expected throughout the week. Bloom formation at the coast is unlikely today through Friday, June 27. No impacts due to harmful algae are expected along the coast.

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.

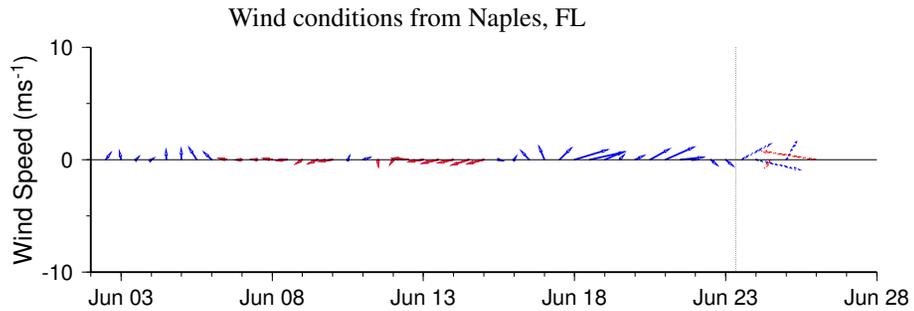
~Fisher, Fenstermacher

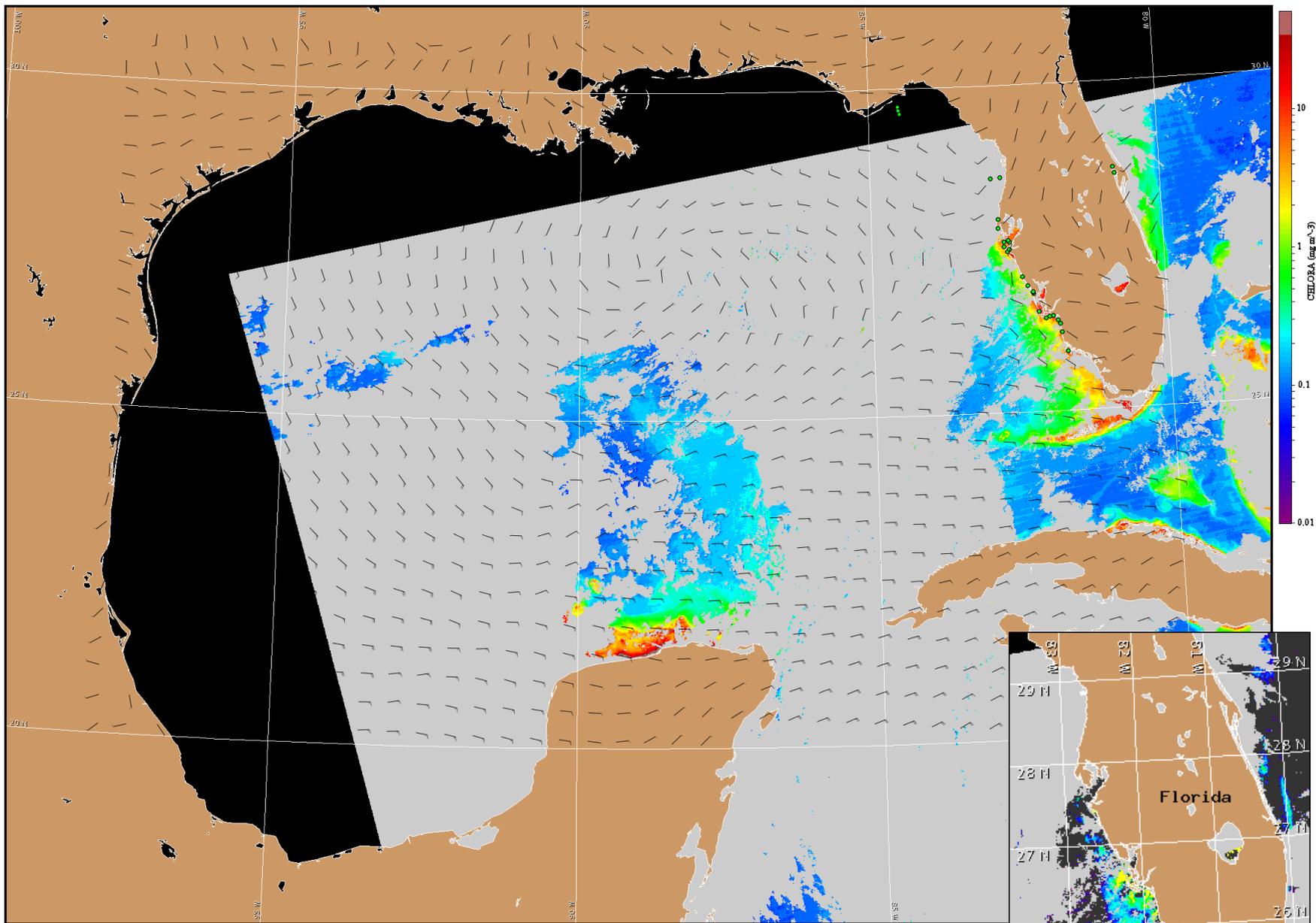
Wind Analysis

Southwest to northwest winds today becoming easterly tonight (5-10kn, 3-5m/s). East to northeast winds Tuesday (5-10kn; up to 15kn, 8m/s Tuesday night). Continued east winds Wednesday (15kn, 8m/s). East to southeast winds Thursday (5-15kn, 3-8m/s). Southeast winds Friday (10-15kn, 5-8m/s).

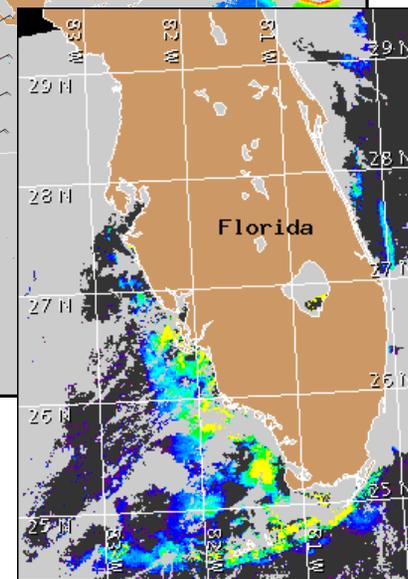


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.





Satellite chlorophyll image and forecast winds for June 24, 2008 12Z with Cell concentration sampling data from June 13 to 19 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).