



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

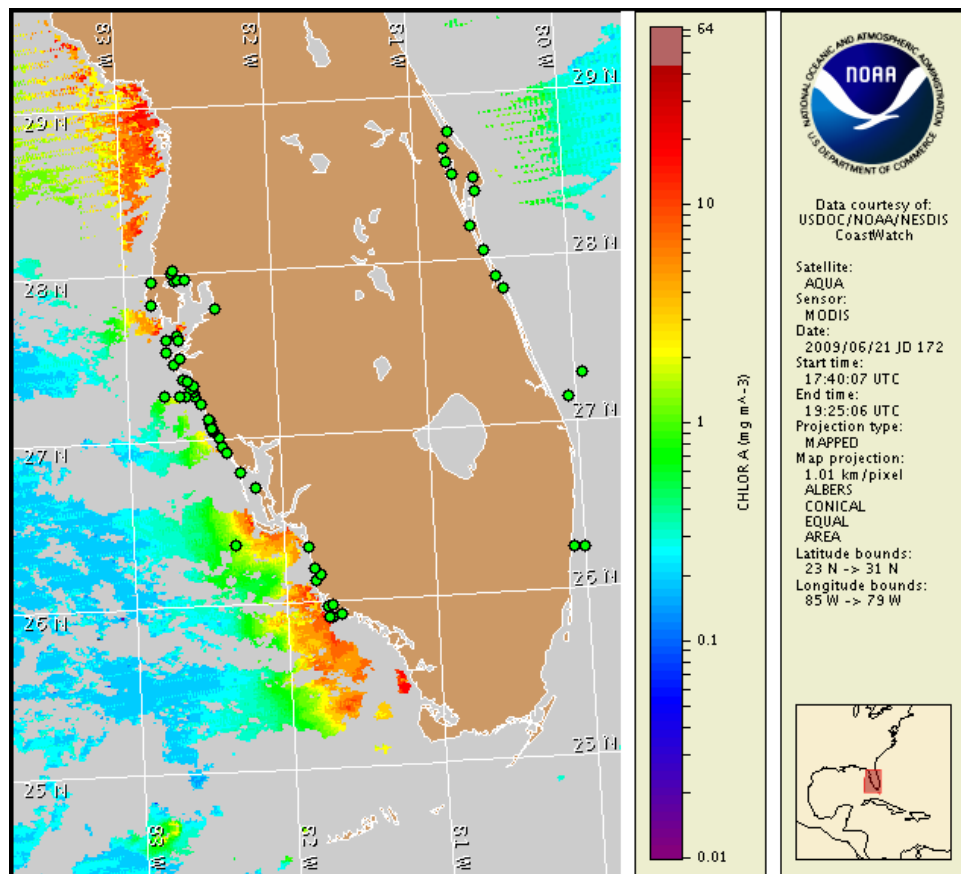
22 June 2009

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: June 15, 2009



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from June 13 to 18 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://tidesandcurrents.noaa.gov/hab/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

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 28.

Analysis

There is currently no indication of a bloom in southwest Florida. The most recent samples from alongshore Pinellas, Manatee, Sarasota, Charlotte, Lee and Collier counties all indicate that *Karenia brevis* is not present (SCHD 6/15, FWRI 6/15-17).

MODIS satellite imagery has been cloudy over the past few days; however 6/21 satellite imagery is visible alongshore southern Lee and Collier counties and offshore Monroe County. Elevated to high levels of chlorophyll ($>6 \mu\text{g/L}$) are visible alongshore southern Lee and central Collier counties. Samples taken alongshore Lee and Collier counties indicate the presence of numerous species of non-harmful algae (FWRI 6/15-17) and a dinoflagellate bloom of *Takayama tuberculata* identified in the Naples Bay region of Collier County continues to diminish (CCPCPD, 6/16).

Samples taken from central Sarasota Bay on 6/9 indicate very low b and very low a concentrations of *K. brevis* (FWRI). Additional samples (12) taken throughout the southern portion of Sarasota Bay all indicated that *K. brevis* was not present (FWRI 6/9). More recent samples taken in southern Sarasota Bay also confirm that *K. brevis* is either not present or at background concentrations (FWRI 6/15-16 & 6/19).

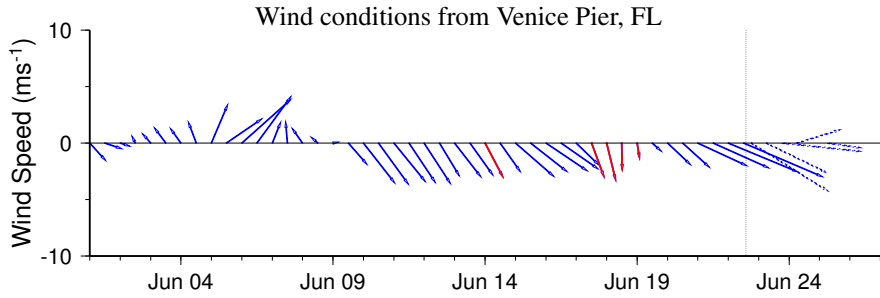
Harmful algal bloom formation alongshore southwest Florida is not expected today through Sunday, June 28.

Due to technical difficulties SeaWiFS imagery is presently unavailable. MODIS imagery has been used for bloom analysis and is displayed on this bulletin.

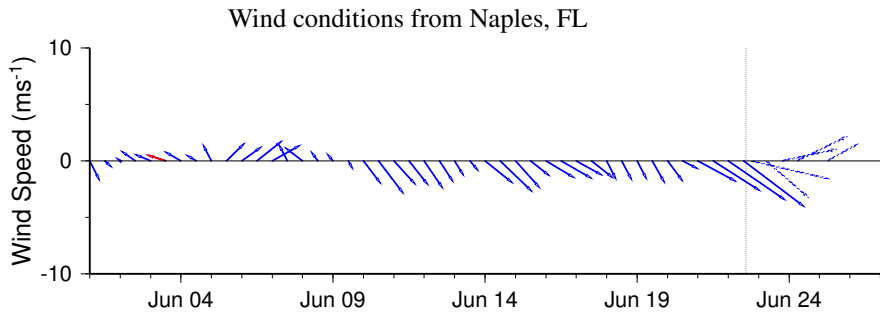
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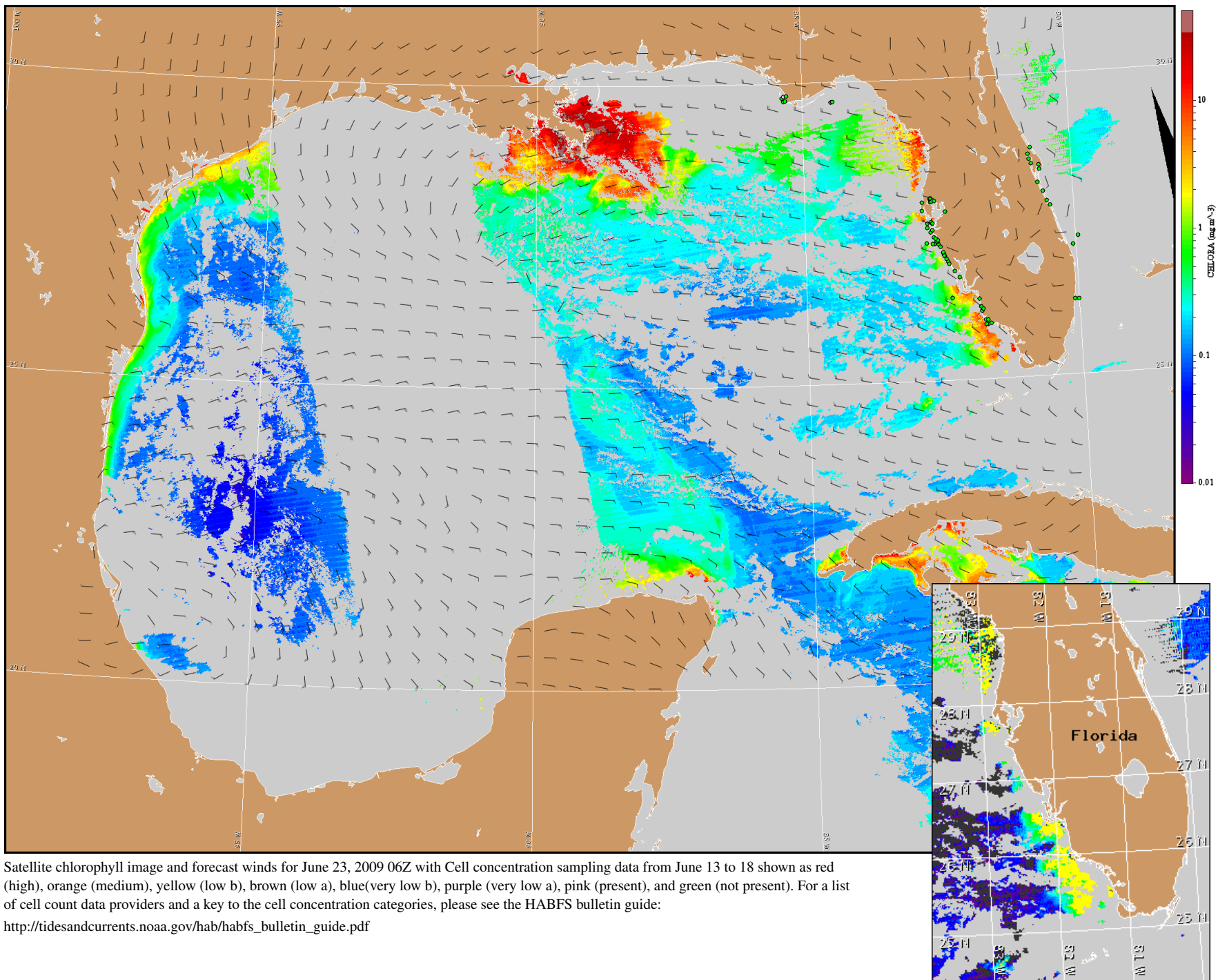
Wind Analysis

Southwest Florida: Northwestern to westerly winds today (15 kn, 8 m/s). Westerly winds (10-15 kn, 5-8 m/s) Tuesday. Northwestern to westerly winds (10 kn, 5 m/s) Wednesday. Southwesterly winds (10 kn) Thursday. Southerly winds (10 kn) Friday.



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).





Satellite chlorophyll image and forecast winds for June 23, 2009 06Z with Cell concentration sampling data from June 13 to 18 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:

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Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).