



## Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

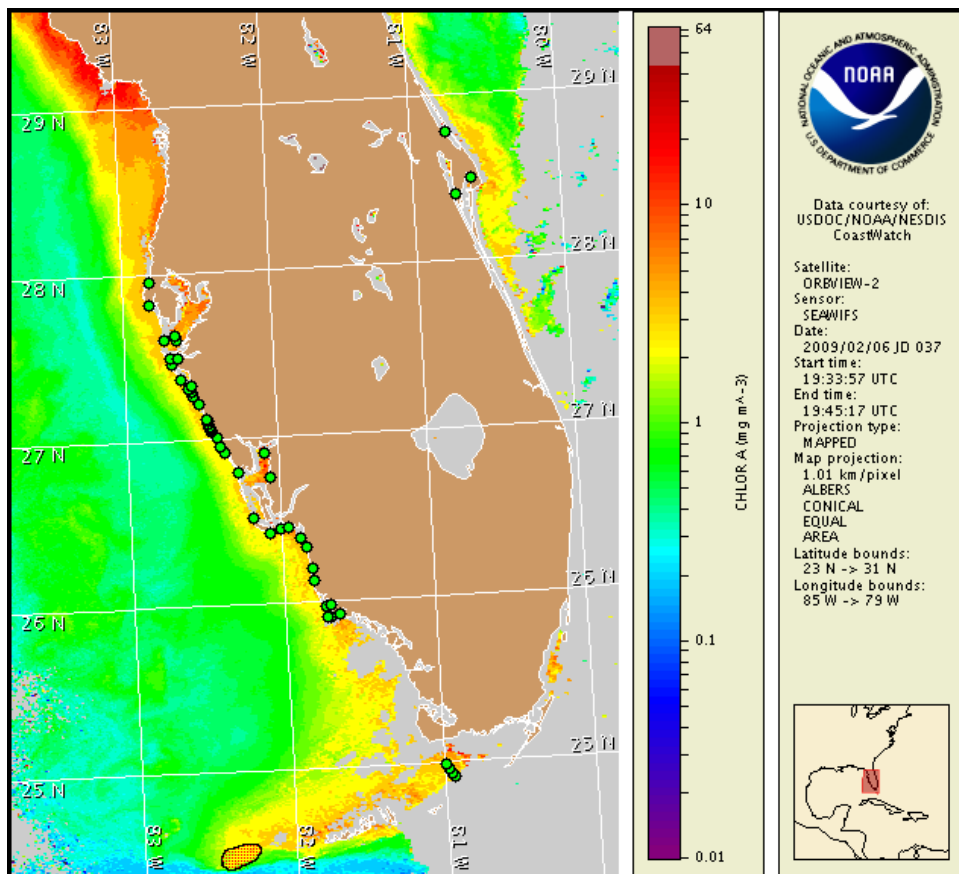
9 February 2009

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: February 5, 2009



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from February 2 to 4 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](http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf)

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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 report of a harmful algal bloom at the coast in southwest Florida including the Florida Keys. No impacts are expected alongshore southwest Florida today through Wednesday, February 11.

## Analysis

There is currently no report of a harmful algal bloom at the coast in southwest Florida including the Florida Keys. No *Karenia brevis* was identified last week alongshore southwest Florida between Pinellas and Monroe Counties or northwest of the middle Florida Keys (FWRI, SCHD, MML; 2/2-2/6). The feature currently being monitored west of the lower Keys is continually visible (as of Feb. 6) and located from 24°33'30"N 82°13'10"W west to 24°25'43"N 82°32'38"W. This feature may have transported further west to southwest over the weekend due to persistent northeasterly winds and general water flow in this region. Small patches of elevated chlorophyll are also visible in imagery between Key West and the Marquesas Keys and in a band extending approximately 1 mile south of the lower Florida Keys from the Saddlebunch Keys to Big Pine Key. Sampling throughout this region is recommended.

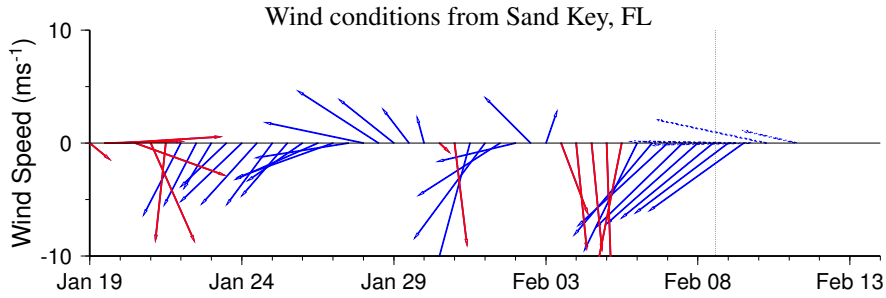
Strong easterly predicted winds may continue to promote westward transport of features in the lower Florida Keys through Wednesday, February 11. Conditions are not favorable for bloom formation in southwest Florida.

~Fisher, Gan

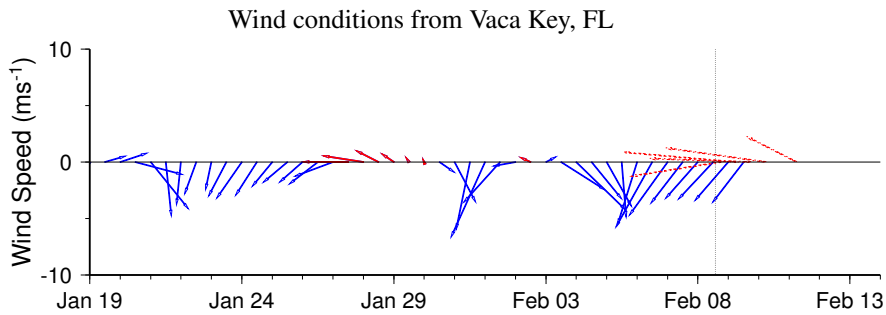
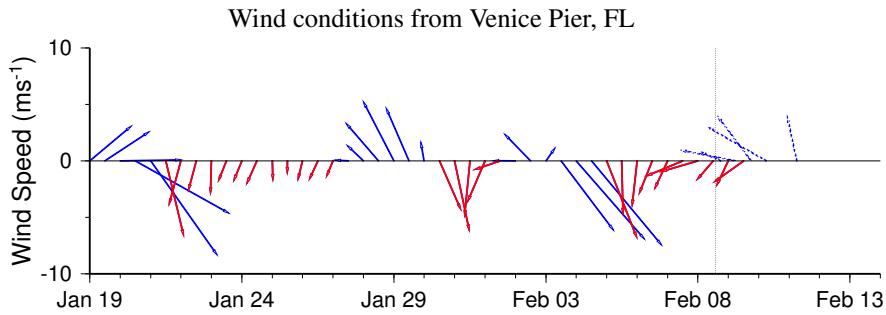
## Wind Analysis

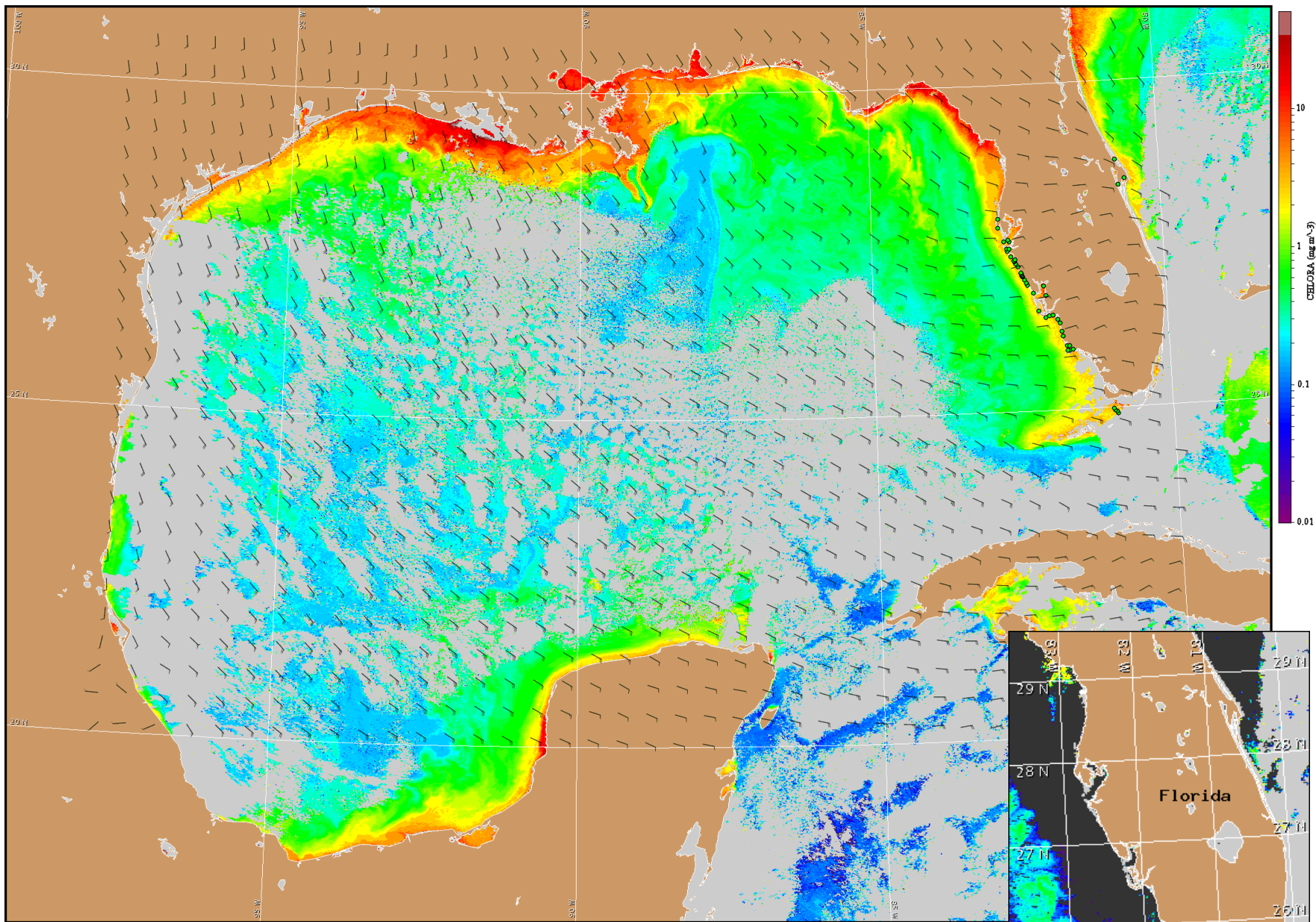
Lower Florida Keys: Northeast to east winds (10 -20kn, 5-10m/s, and gusty) today. East winds (15-20kn, 8-10m/s. and gusty) tonight and Tuesday. East to southeast winds Tuesday night (15-20kn). Southeast winds(15-20kn) Wednesday.

SW Florida: East winds today (15kn, 8m/s) becoming northerly (5-10kn, 3-5m/s). Southeast winds Tuesday (15-20kn, 8-10m/s). South to southwest winds Wednesday (15kn, 8m/s).



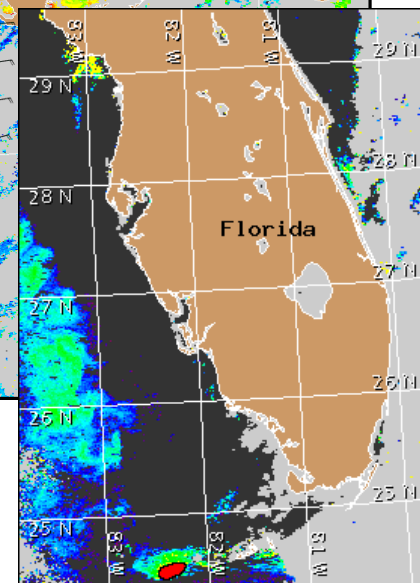
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).





Satellite chlorophyll image and forecast winds for February 10, 2009 12Z with Cell concentration sampling data from February 2 to 4 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).