



Gulf of Mexico Harmful Algal Bloom Bulletin

10 January 2008

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: January 7, 2008

Conditions Report

E. Florida: A harmful algal bloom is present from southern Volusia County to northern Palm Beach County. In Brevard and northern Indian River Counties, patchy very low impacts are possible today and no impacts are expected from Friday through Sunday. No additional impacts are expected elsewhere along eastern Florida through Sunday, January 13.

SW Florida: There is no indication of a harmful algal bloom at the coast in southwest Florida. No impacts are expected in southwest Florida through Sunday, January 13.

Analysis

Please note that due to technical difficulties, SeaWiFS imagery is temporarily unavailable; MODIS imagery from Jan. 7 is displayed on pages 1 and 2 of this bulletin.

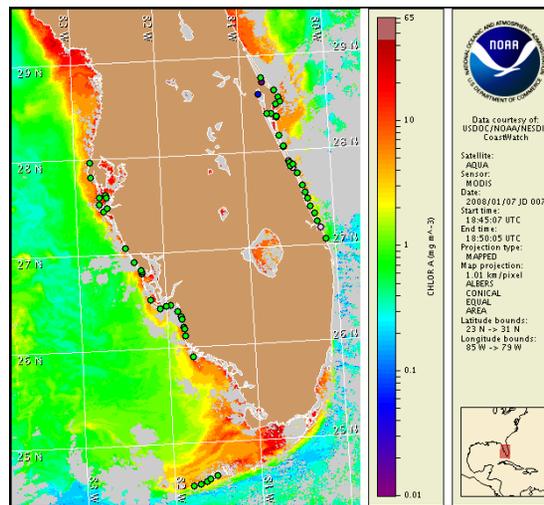
E. Florida: A harmful algal bloom remains from southern Volusia County to northern Palm Beach County. *K. brevis* concentrations continue to diminish, with primarily not present, up to low concentrations from Volusia to Palm Beach Counties (FWRI, 1/8). A band of elevated chlorophyll (5 to 7 $\mu\text{g/L}$) extends ~22 miles offshore from Volusia to Brevard Counties. MODIS imagery is cloudy and limits analysis of bloom in Indian River and St. Lucie Counties. Continued sampling is recommended. Offshore winds throughout this weekend may decrease the potential for impacts and may minimize further southward transport of the bloom.

SW Florida & the Keys: A single very low concentration of *K. brevis* was identified last week near New Pass in Sarasota County (FWRI, 12/24-28). No additional *K. brevis* has been found alongshore southwest Florida or in the Florida Keys (1/8, FWRI). Chlorophyll levels remain elevated (~7 $\mu\text{g/L}$) north of the Lower Keys, with an elevated band located from 25°5'33"N 81°14'16"W to 24°52'27"N 81°36'42"W. This may be related to the feature noted in 12/31 bulletin. Primarily southerly winds will continue throughout the weekend.

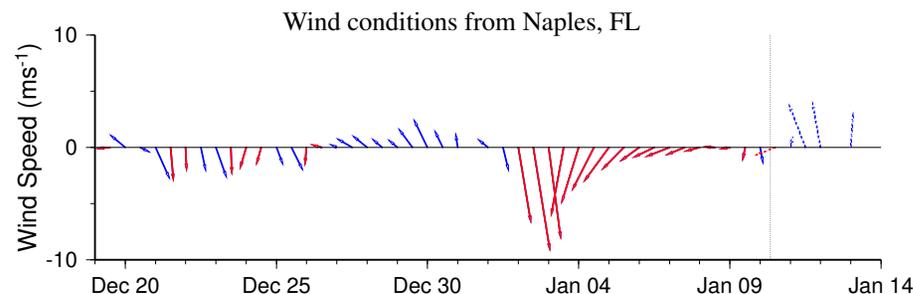
~Fenstermacher, Urizar

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.

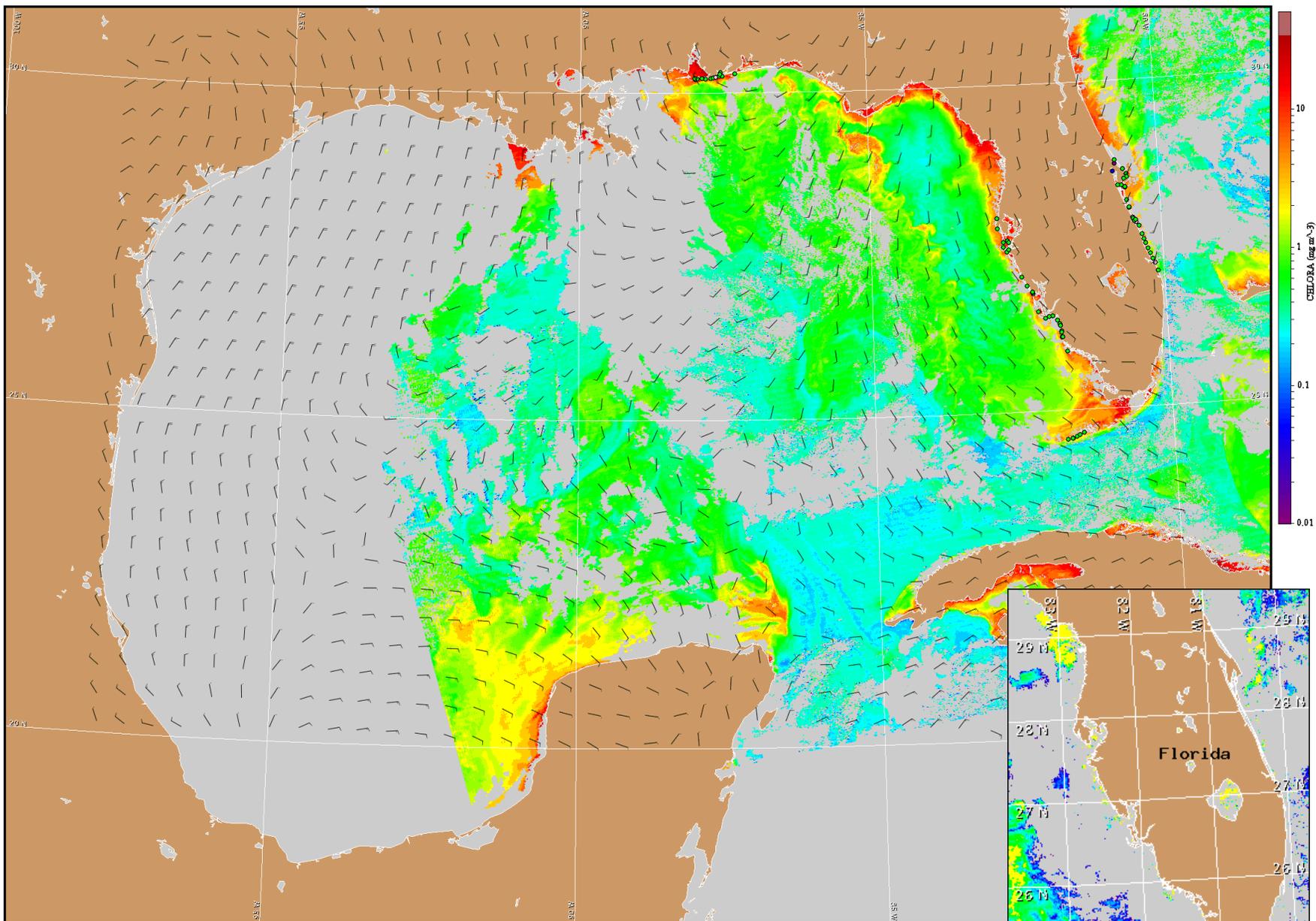


Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from December 31 to January 8 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list 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

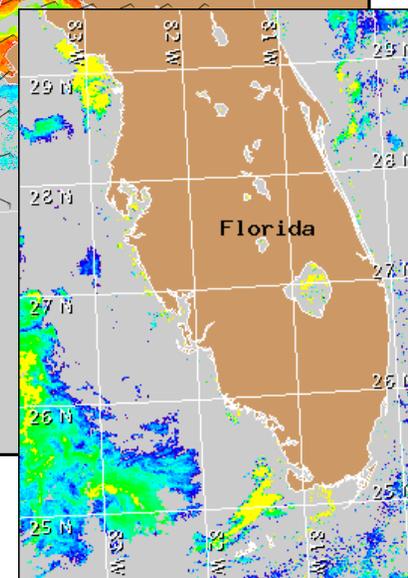


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

E. Florida: Southeast to southwesterlies today and Friday (5-10 kts; 3-5 m/s). Northwest to southwesterlies Saturday (5-10 kts). South to southwesterlies Sunday becoming west to northwesterlies on Sunday night (5-15 kts; 3-10 m/s). **SW Florida:** South to southeasterlies today and Friday (5-15 kts; 3-8 m/s). South to southwesterlies Friday night through Saturday (5-10 kts; 3-5 m/s). Northwestlies Saturday night becoming southeast to southwest on Sunday (10-15 kts; 5-8 m/s). Strong north to northwesterlies Sunday night (15-20 kts; 8-10 m/s). **Lower Keys:** East to southeasterlies today through Saturday (10-15 kts; 5-8 m/s). Southerlies Sunday becoming northwesterlies Sunday night (10 kts; 5 m/s).

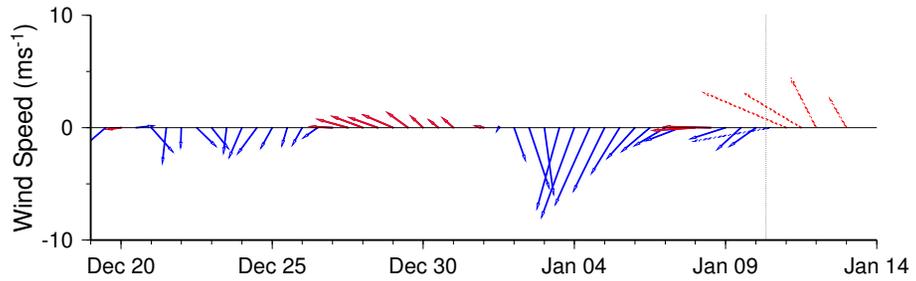


Satellite chlorophyll image and forecast winds for January 11, 2008 12Z with Cell concentration sampling data from December 31 to January 8 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of 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

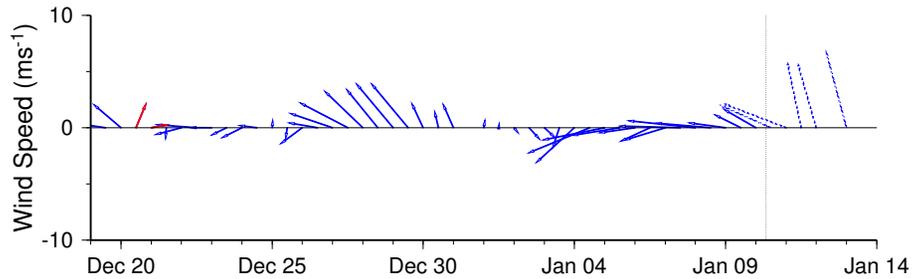


Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).

Wind conditions from Vaca Key, FL



Wind conditions from Lake Worth, FL



Wind conditions from St Augustine, FL

