



Gulf of Mexico Harmful Algal Bloom Bulletin

7 January 2008

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: January 3, 2008

Conditions Report

E Florida: A harmful algal bloom is present from southern Volusia County to northern Palm Beach County. In southern Volusia, northern Indian River and northern Martin Counties, patchy low impacts are possible today through Thursday. In northern Brevard and northern Palm Beach Counties, patchy very low impacts are possible today through Thursday. In southern Brevard and northern St. Lucie, patchy moderate impacts are possible today through Thursday. In southern St. Lucie County, patchy moderate impacts are possible today and patchy low impacts possible Tuesday through Thursday. No additional impacts are expected elsewhere along eastern Florida through Thursday, January 10.

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 Thursday, January 10.

Analysis

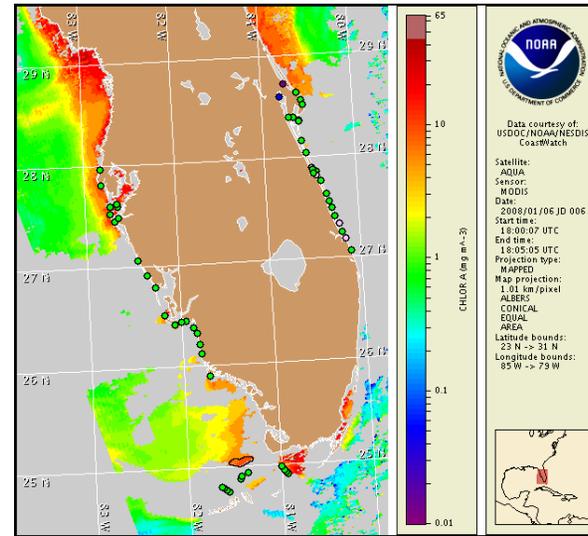
E Florida: A harmful algal bloom remains from southern Volusia County to northern Palm Beach County. Please note that due to technical difficulties, SeaWiFS imagery is temporarily unavailable; MODIS imagery (1/6) is displayed on pages 1 and 2 of this bulletin. MODIS imagery is cloudy and limits analysis of bloom. Chlorophyll levels alongshore from Volusia to northern Brevard range from 5 to 7 $\mu\text{g/L}$. Continued sampling is recommended. Strong onshore winds today may increase the potential for impacts. Southerlies to easterlies throughout the week 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 (1/4, FWRI). MODIS imagery is cloudy and limits analysis. Chlorophyll levels offshore from Lee to Monroe County are generally 3 to 5 $\mu\text{g/L}$, with an elevated feature (~7 $\mu\text{g/L}$) north of the lower Keys, centralized at 25°3'55"N 81°25'13"W. Variable, offshore winds will continue throughout the week.

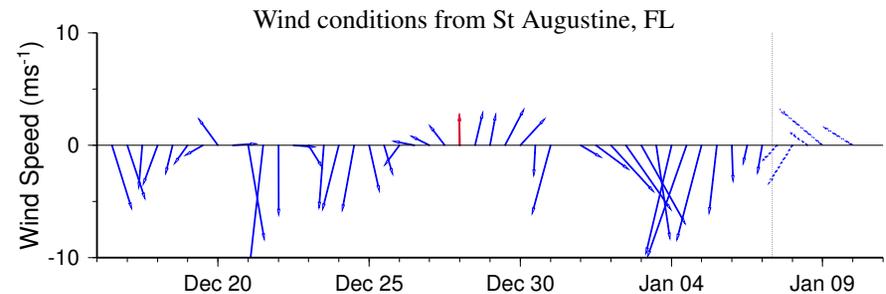
~Fenstermacher, Urizar

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 28 to January 3 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

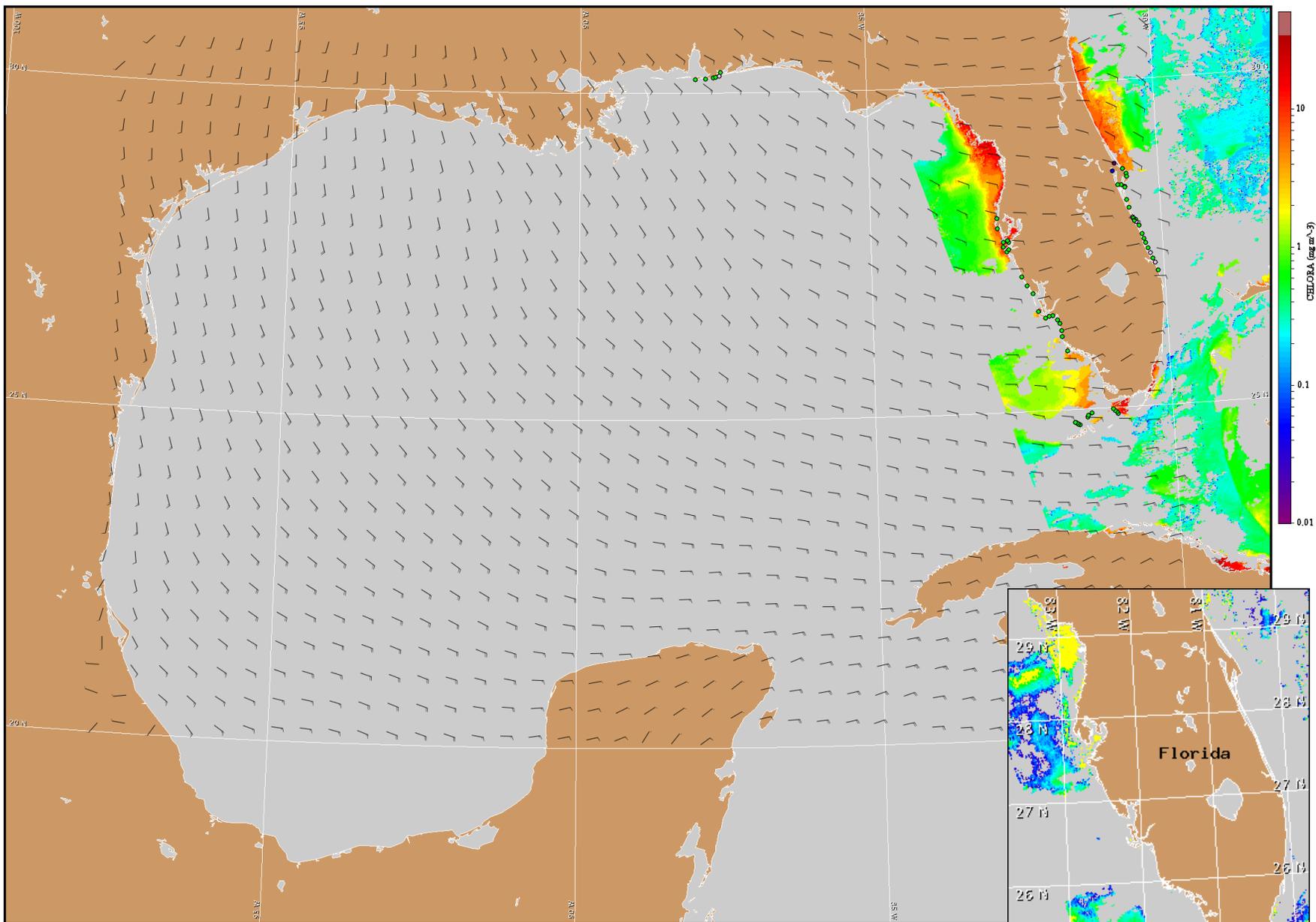


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

E Florida: Easterlies today through Tuesday (10-20 kts; 5-10 m/s). Southeasterlies Tuesday night (5-10 kts; 3-5 m/s). Southerlies to easterlies Wednesday and southerlies to southeasterlies Thursday (5-10 kts).

SW Florida: Northeast to easterlies today followed by southeasterlies to easterlies Tuesday (5-15 kts; 3-8 m/s). Southerlies to easterlies Wednesday (5-10 kts). Southerlies to southeasterlies Thursday (10-15 kts; 5-8 m/s).

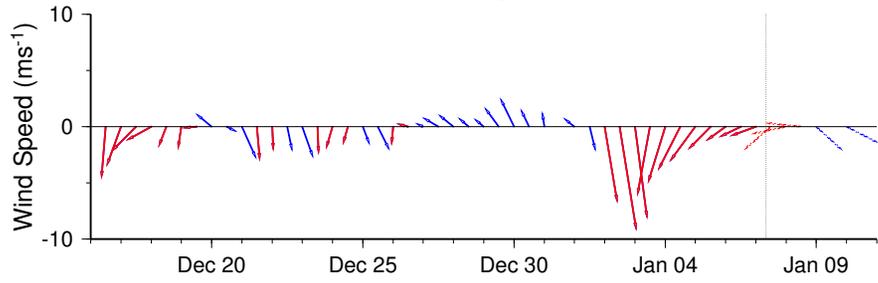
Florida Keys: Strong northeast to easterlies today through Tuesday (15-20 kts; 8-10 m/s). Easterlies Wednesday (10-15 kts). Easterlies to southeasterlies Thursday (10 kts).



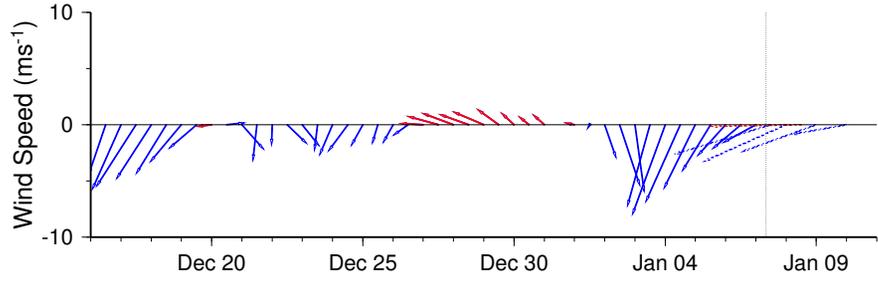
Satellite chlorophyll image and forecast winds for January 8, 2008 12Z with Cell concentration sampling data from December 28 to January 3 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of 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 Naples, FL



Wind conditions from Vaca Key, FL



Wind conditions from Lake Worth, FL

