

Gulf of Mexico Harmful Algal Bloom Bulletin

17 January 2008

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: January 14, 2008

Conditions Report

NE Florida: A harmful algal bloom persists onshore from southern Volusia to northern Indian River Counties. Friday and Sunday: patchy moderate impacts are possible in northern Brevard County, patchy low impacts are possible in southern Volusia, and patchy very low impacts are possible in southern Brevard and northern Indian River Counties. Patchy very low impacts are possible in southern Volusia and northern Brevard Counties today and Saturday. No impacts are expected elsewhere along northeast Florida.

SW Florida: There is no indication of a harmful algal bloom at the coast in southwest Florida. No impacts are expected today through Sunday, January 20.

Analysis

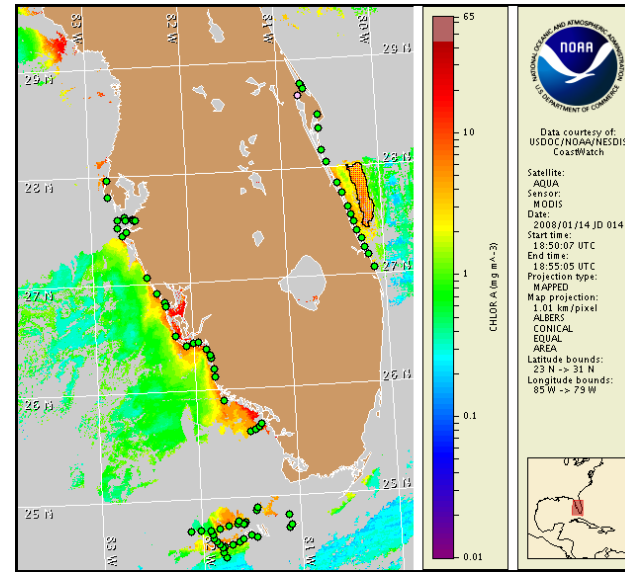
NE Florida: The harmful algal bloom persists between southern Volusia and northern Indian River County. The most recent sample results indicate that *Karenia brevis* is either not present or at background levels in Mosquito Lagoon and Indian River in northern Brevard County and not present in the Indian River Narrows in Indian River County (FWRI; 1/10,14). The most recent sample results also indicate that *K. brevis* is not present alongshore Brevard, Indian River and St. Lucie Counties (FWRI; 1/14-15). Please note that due to technical difficulties, SeaWiFS imagery is temporarily unavailable; MODIS imagery (1/14) is displayed on pages 1 and 2 of this bulletin. Although partially obscured by clouds in northeast Florida, MODIS imagery indicates the presence of slightly elevated chlorophyll levels ($>3 \mu\text{g/L}$) alongshore southern Brevard, Indian River and northern St. Lucie Counties. Parallel to the coast from southern Brevard to northern St. Lucie County and approximately 10 nm offshore is another slightly elevated patch of chlorophyll ($>3 \mu\text{g/L}$). Sampling is highly recommended. Onshore winds Friday and Sunday may increase the potential for impacts at the coast.

SW Florida: There is no indication of a harmful algal bloom at the coast in southwest Florida. Samples collected from alongshore Manatee, Sarasota, Charlotte and Collier Counties and in the Florida Keys indicate that *K. brevis* is either not present or at background levels (FWRI 1/14-15; MML 1/7-11). MODIS imagery indicates slightly elevated chlorophyll levels ($>3 \mu\text{g/L}$) alongshore Lee and Collier Counties; however this may be due to the presence of non-harmful algae as indicated by sample results (FWRI; 1/14).

Urizar, Keller

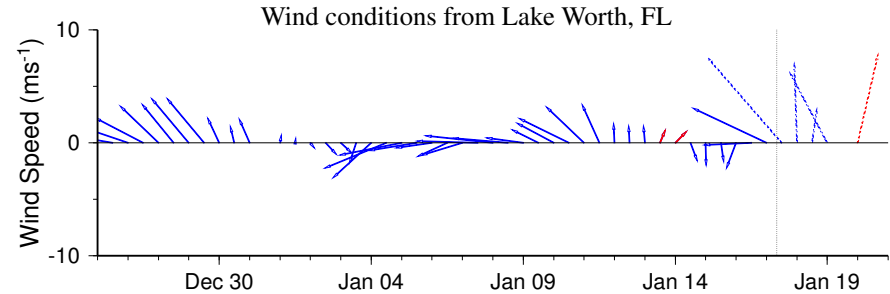
Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

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 January 7 to 15 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:

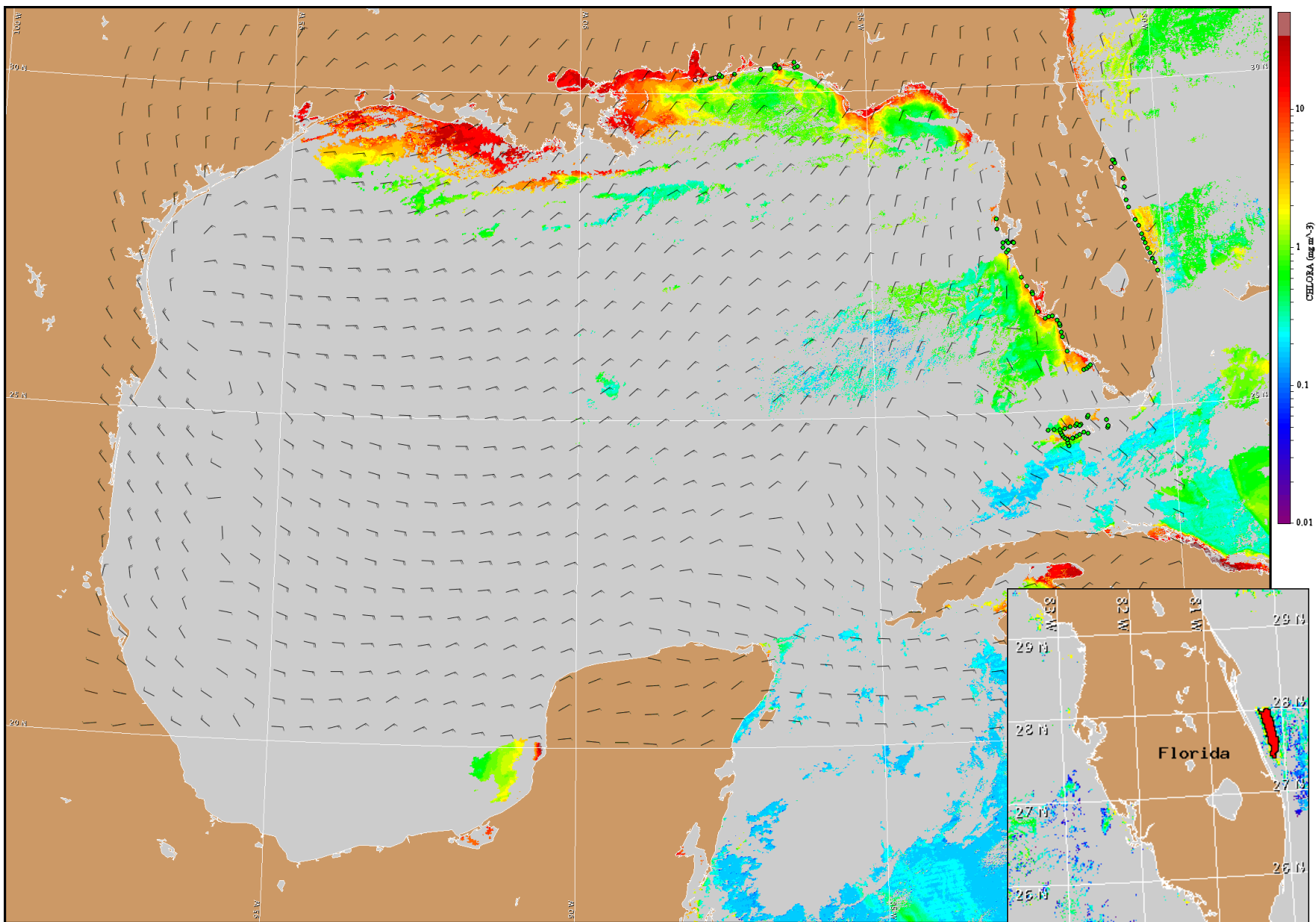
http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf



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.

NE Florida: Southerlies to southwesterlies today (10-20 kt, 5-10 m/s). Westerlies Friday (5-10 kt, 3-5 m/s). Northerlies to northeasterlies Friday afternoon and night (10 kt, 5 m/s). Southerlies Saturday. Southwesterlies to northwesterlies Saturday afternoon and night (20-25 kt, 10-13 m/s). Northerlies to northeasterlies Sunday (15-20 kt, 8-10 m/s).

SW Florida: Southerlies to southwesterlies today (10-20 kt). Variable winds Friday (<5 kt, <3 m/s). Southerlies Friday night (15 kt, 8 m/s). Southwesterlies to northwesterlies Saturday (15-25 kt, 8-13 m/s). Northerlies Saturday night (20-25 kt). Northeasterlies Sunday (20-25 kt).



Satellite chlorophyll image and forecast winds for January 18, 2008 12Z with Cell concentration sampling data from January 7 to 15 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

