



# Gulf of Mexico Harmful Algal Bloom Bulletin

26 December 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: December 20, 2007

## Conditions Report

NE Florida: A harmful algal bloom has been identified from southern Volusia to northern St. Lucie County. In southern Volusia County, patchy high impacts are possible today through Sunday. In southern Brevard County, patchy moderate impacts are possible today through Saturday and patchy very low impacts are possible on Sunday. In northern Brevard and northern Indian River Counties, patchy low impacts are possible today through Saturday and patchy very low impacts are possible on Sunday. In southern Indian River County, patchy very low impacts are possible today through Sunday. In northern St. Lucie, patchy low impacts are possible today through Sunday. 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, December 30.

## Analysis

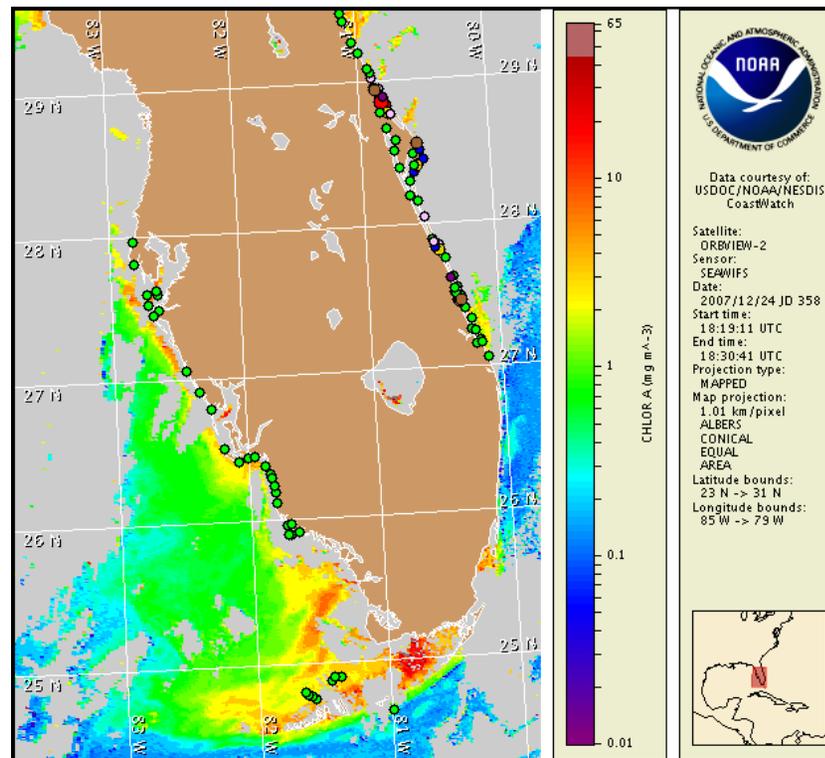
SW Florida: A harmful algal bloom was confirmed in northern Collier County by FWRI on 12/7; however, recent samples indicate that the bloom is no longer present at the coast from Pinellas to Collier County (FWRI 12/17-20). Additionally, samples collected offshore of the Florida Keys indicate that *Karenia brevis* is also not present (MML; 12/19-20). Satellite imagery (12/24) indicates elevated (>4 µg/L) chlorophyll levels offshore Sarasota County (from 27°19'N 82°40'3"W to 27°6'16"N 82°31'48"W) and an elevated chlorophyll patch located southeast of Sanibel Island (centered at 26°25'14"N 81°58'39"W). Imagery also indicates two elevated (>4 µg/L) chlorophyll patches offshore Monroe County; the first extends from 25°32'26"N 81°24'23"W to 25°7'14"N 81°41'37"W and the second extends from 25°7'55"N 81°31'7"W to 24°55'38"N 81°40'52"W. Satellite imagery also indicates an elevated (>3 µg/L) patch of chlorophyll located northwest of the Florida Keys (centered at 24°47'25"N 82°12'19"W). Continued sampling is recommended.

**\*\* Please refer to the subsequent South Florida Bulletin (2007-094) for analysis and information on east Florida.**

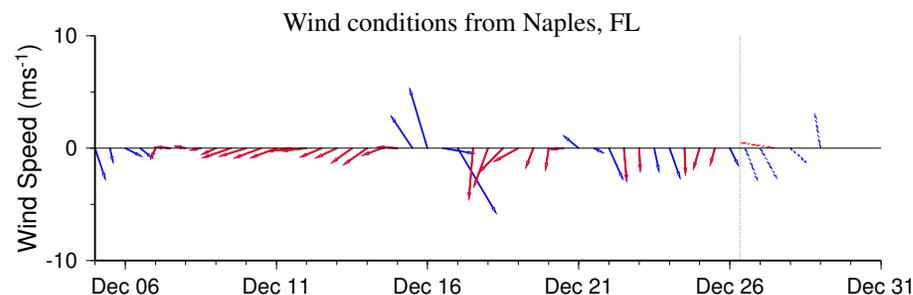
**\*\*\* An updated conditions report for southwest Florida will be issued on Friday, December 28.** Urizar, Fisher

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.

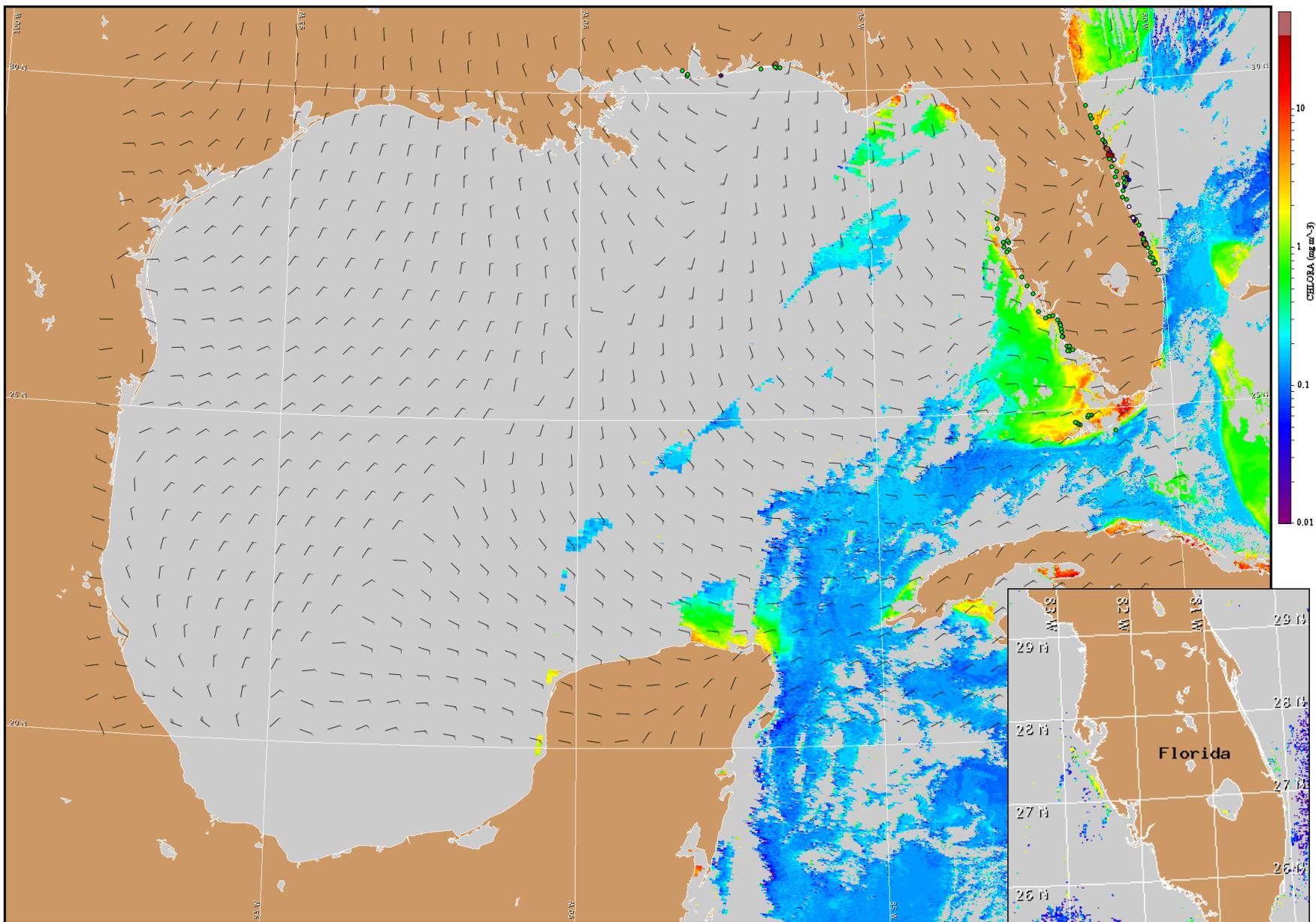


Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from December 17 to 20 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list of cell 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](http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf)

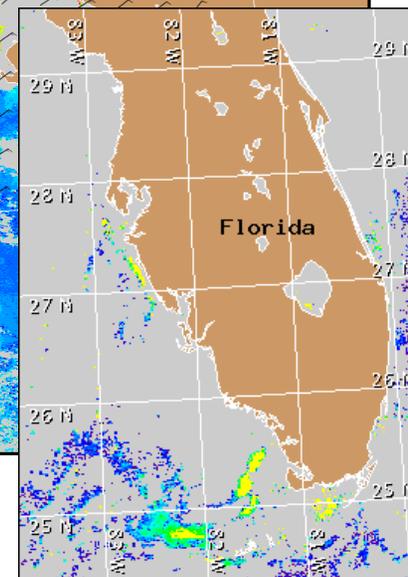


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Northeasterlies today (5-10 kts, 3-5 m/s). Easterlies tonight and Thursday (10-15 kts, 5-8 m/s). Southeasterlies Friday and Saturday (10-15 kts). Southerlies on Sunday (10-15 kts).

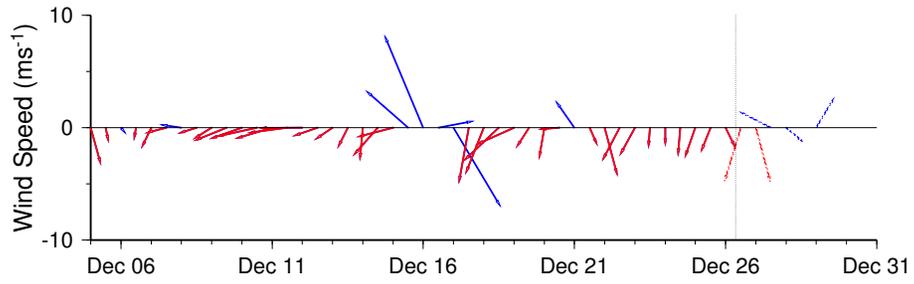


Satellite chlorophyll image and forecast winds for December 27, 2007 12Z with Cell concentration sampling data from December 17 to 20 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell 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](http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf)

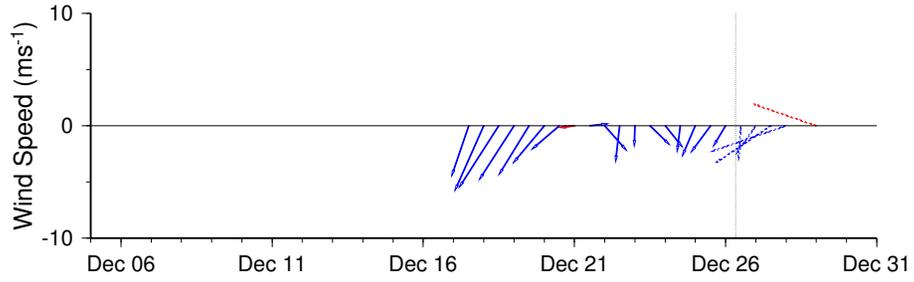


Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).

Wind conditions from Venice Pier, FL



Wind conditions from Vaca Key, FL



Wind conditions from Sand Key, FL

