



Gulf of Mexico Harmful Algal Bloom Bulletin

31 December 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: December 26, 2007

Conditions Report

SW Florida: Harmful algae has been identified in northern Sarasota County. Patchy very low impacts are possible in northern Sarasota County today through Thursday. No impacts are expected elsewhere in southwest Florida through Thursday, January 3.

E Florida: A harmful algal bloom is present from southern Volusia County to northern Palm Beach County. Today through Thursday, patchy moderate impacts are possible in southern Brevard and southern Indian River Counties, patchy low impacts are possible in southern Volusia, northern Indian River and northern St. Lucie Counties, and patchy very low impacts are possible in northern Palm Beach County. In northern to central Brevard County, patchy low impacts are possible today and Thursday, with patchy very low impacts possible Tuesday through Wednesday. Patchy very low impacts are possible in Martin and southern St. Lucie Counties today through Wednesday, with patchy moderate impacts possible on Thursday. No impacts are expected elsewhere along northeast Florida through Thursday, January 3.

Analysis

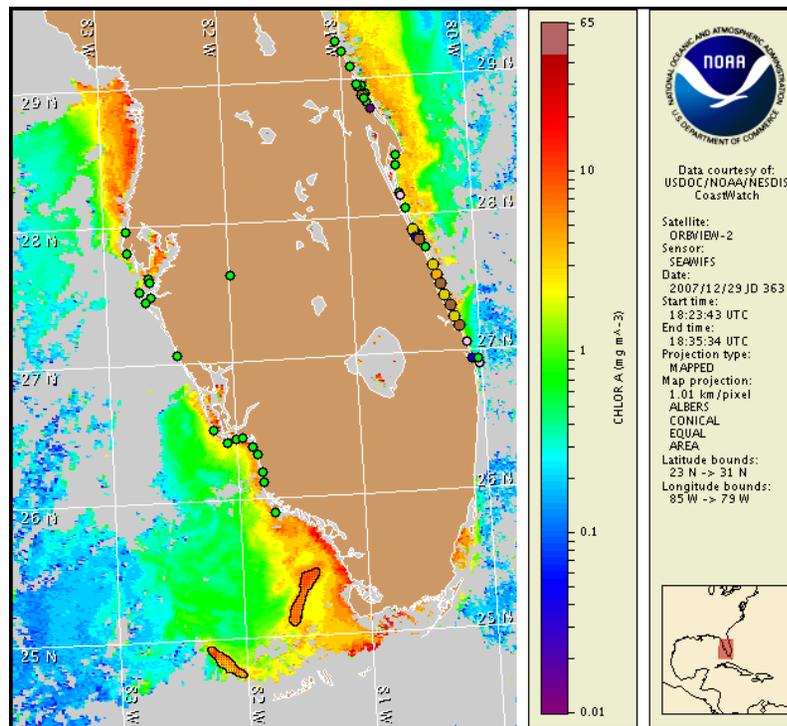
SW Florida: Very low concentrations of *Karenia brevis* were identified last week in a single sample collected near New Pass in Sarasota County (FWRI, 12/24-28). No additional *K. brevis* has been found in southwest Florida. Recent satellite imagery has been clouded in this area, limiting analysis. This region will continue to be monitored. Elevated to high chlorophyll features are visible in satellite imagery from 12/29-30 offshore Monroe County (4 to >10 µg/L; in a band from 25°32'25"N 81°23'1"W to 25°6'12"N 81°38'54"W), north of the Keys region (up to 7 µg/L; centralized at 24°56'58"N 81°35'17"W) and northwest of the Lower Keys (4 to >10 µg/L; in a band from 24°45'16"N 81°53'16"W to 24°56'43"N 82°9'38"W). Sampling recommended. Strong northerly winds will promote southward transport of these features throughout the week.

**** Please refer to the subsequent South Florida Bulletin (2007-096) for analysis and information on eastern Florida.**

~Fisher, Allen

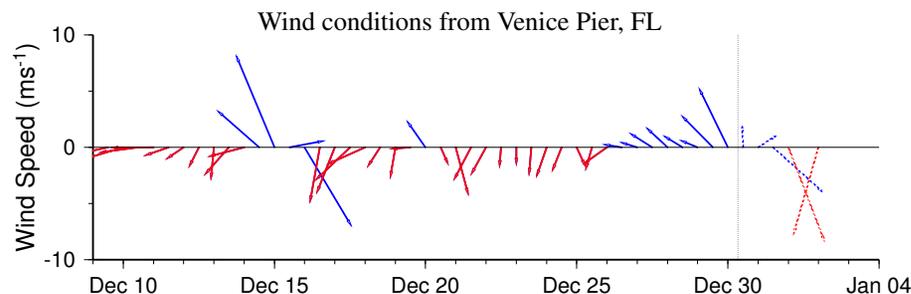
Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

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.



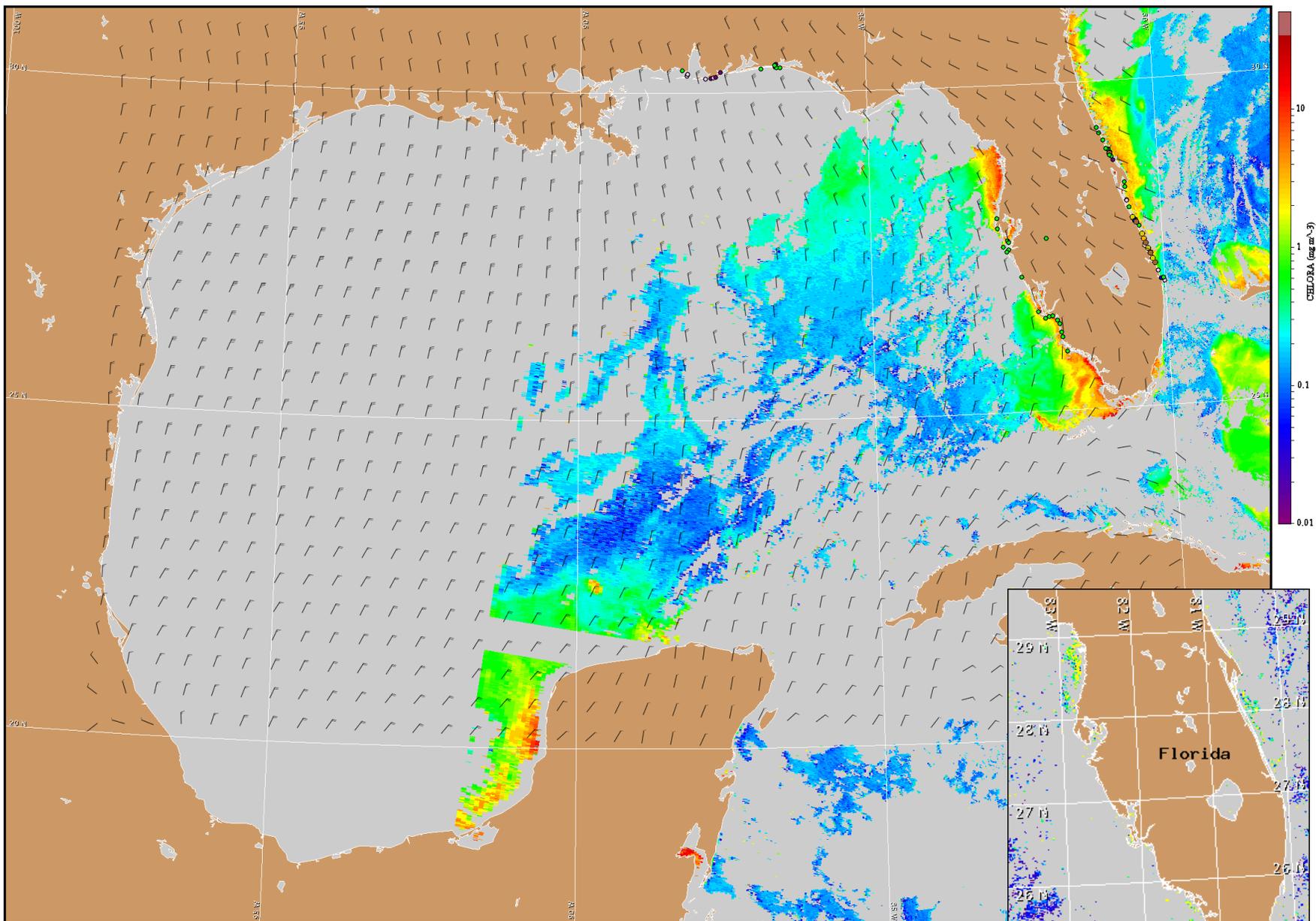
Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from December 26 to 27 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list of cell 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.

Northeast winds becoming southeast today (5-10kts, 3-5m/s). Southwest winds becoming north tonight (up to 20kts, 10m/s). North winds Tuesday through Wednesday (20-30kts, 10-15m/s). Northeast winds expected Wednesday night through Thursday (20-25kts, 10-13m/s).



Satellite chlorophyll image and forecast winds for January 1, 2008 12Z with Cell concentration sampling data from December 26 to 27 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/habfs/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

