Gulf of Mexico Harmful Algal Bloom Bulletin
8 March 2007
NOAA Ocean Service
NOAA Satellites and Information Service
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Conditions Report

A harmful algal bloom has been identified south of the Lower and Middle Keys in Monroe County. On Sunday, patchy high impacts are possible in the oceanside Lower Keys region. No other impacts are expected through Sunday in southwest Florida.

Analysis

A harmful algal bloom has been identified south of the Keys. Imagery from March 7 shows a feature with elevated chlorophyll, with concentrations greater than 2 \( \mu g/L \), south of the Lower Keys around 24°35'N 81°33'W. Sampling is recommended. Westward transport of the bloom is possible through Sunday.

Recent samples off the southwest Florida coast didn’t contain Karenia brevis. Imagery from March 6 shows a feature with elevated chlorophyll, with concentrations greater than 15 \( \mu g/L \), southeast of Sanibel around 26°25'N 82°0'W. A sample taken on March 1 at Buttonwood Beach on Sanibel Island contained no Karenia brevis, so this feature may be a mixed bloom. A wind transport model indicates negligible transport since March 6, so this feature may still be in the same general area. Sampling is recommended.

Broder, 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.

Lower Keys: Winds will be north to northeast (15 kts, 8 m/s) today, northeast (15 kts, 8 m/s) tomorrow and Saturday, east (15 kts, 8 m/s) Sunday.

SW Florida: Winds will be north (10 kts, 5 m/s) today, east becoming northwest (10 kts, 5 m/s) tomorrow, variable (10 kts, 5 m/s) Saturday, east becoming onshore (10 kts, 5 m/s) Sunday.
Satellite chlorophyll image and forecast winds for March 9, 2007 12Z with cell concentration sampling data from February 26-March 6 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (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/bulletin_guide.pdf

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).
Wind conditions from Venice Pier, FL