



Gulf of Mexico Harmful Algal Bloom Bulletin

17 November 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: November 14, 2005

Conditions: Harmful algal blooms have been identified in patches in Dixie, Levy, Sarasota, and Lee Counties. Patchy very low to low impacts are possible in Dixie, Levy, Lee, and Sarasota Counties today through Sunday. A second bloom has been identified in patches in Okaloosa, Bay, and Franklin Counties. Patchy very low impacts are possible today through Sunday in Okaloosa and Bay County. Patchy very low impacts are possible today in Franklin County, with patchy low to moderate impacts possible Friday and Saturday, and patchy very low impacts on Sunday.

Analysis: Bloom remains offshore and in patches along southwestern Florida. Offshore bloom stretches from southern Manatee to Lee County. Imagery from 11/16 indicates that this high chlorophyll patch has a northern extent of 26° 52'N and a southern extent of 26° 13'N, with a maximum chlorophyll at 26° 36'N 82° 36'W (> 40 µg/L) 20 miles west of Boca Grande. A band of high chlorophyll (>20 µg/L) was also detected via satellite imagery on 11/16 extending from 27° 47'N 83° 20'W to 26° 58'N 82° 46'W along its north-south axis. This feature extends from Pinellas to Sarasota County and is approximately 20-25 miles offshore. Background to very low concentrations of *K. brevis* were reported in Collier, Sarasota, and Pinellas County (FWRI, 11/14-16), with no *K. brevis* reported in Charlotte County. Low to medium concentrations were recorded at Pine Island Sound and Captiva Pass (FWRI, 11/15).

An elevated chlorophyll patch remains offshore of Dixie and Levy Counties. High concentrations of *K. brevis* were reported at Seven Sisters Reef on 11/14 (FWRI). The patch extends as far west as 83° 26'W and contains chlorophyll concentrations greater than 25 µg/L.

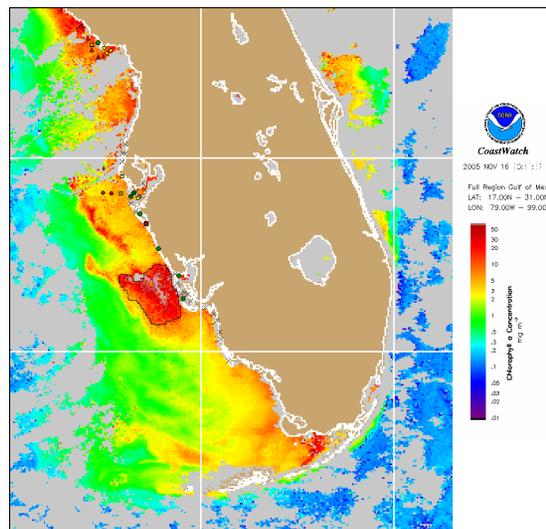
Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. These data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Distribution for military, or commercial purposes is NOT permitted.
3. There are restrictions on Internet/Web/public posting of these data.
4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.

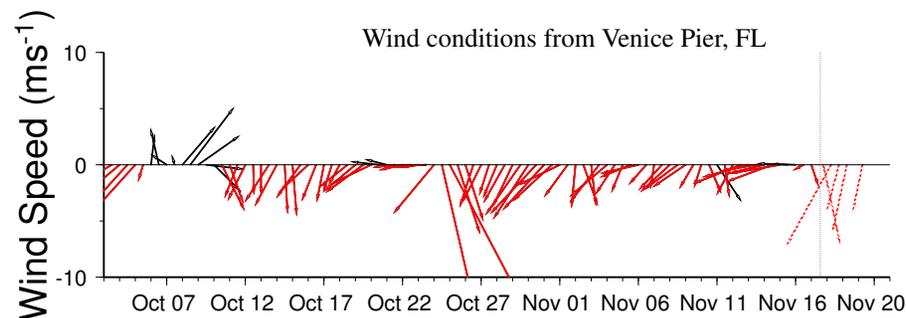
Northerly and northeasterly winds throughout the weekend will continue to minimize impacts along the coast. Slight southerly transport is possible.

A region of elevated chlorophyll (approximately 5 µg/L) has been identified via satellite imagery (11/16) northwest of Marathon from 82° 53'W to 80° 53'W along its east-west axis and from 25° 12'N to 24° 44'N along its north-south axis. This is a non-harmful algal bloom. Samples from FWRI on 11/8 verified that *K. brevis* is not present. Discolored water is possible.

~Keller, Stolz

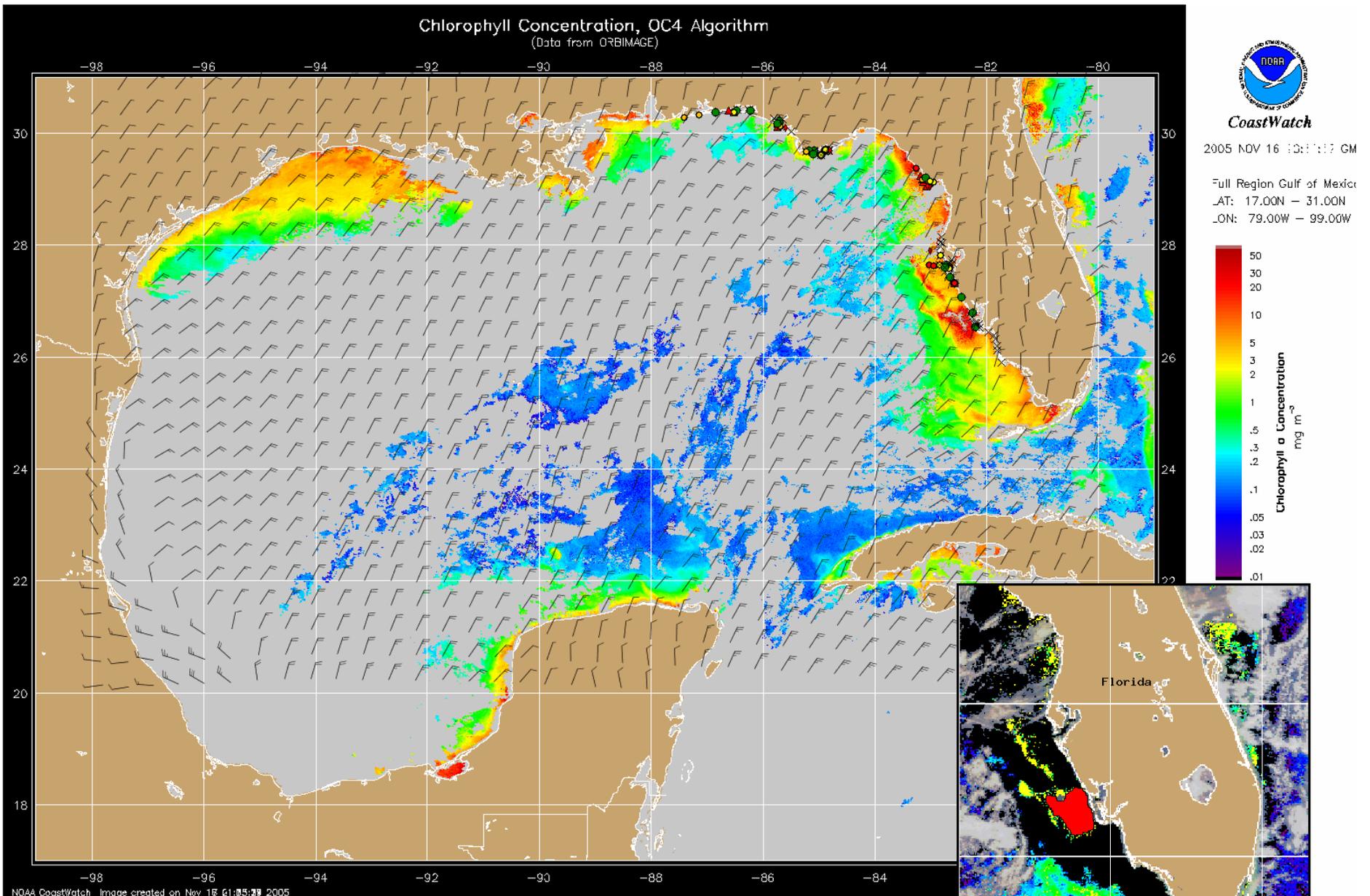


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from October 31, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. 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: North winds today (15 knots, 8 m/s) turning northeast tonight through Friday (15 knots, 8 m/s). North winds Saturday through Sunday (10-15 knots, 5-8 m/s).



Chlorophyll concentration from satellite and forecast winds for November 18, 2005 12Z with cell concentration sampling data from October 31, 2005 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).

Blooms shown in red (see p. 1 analysis)