



# Gulf of Mexico Harmful Algal Bloom Bulletin

31 October 2005

National Ocean Service

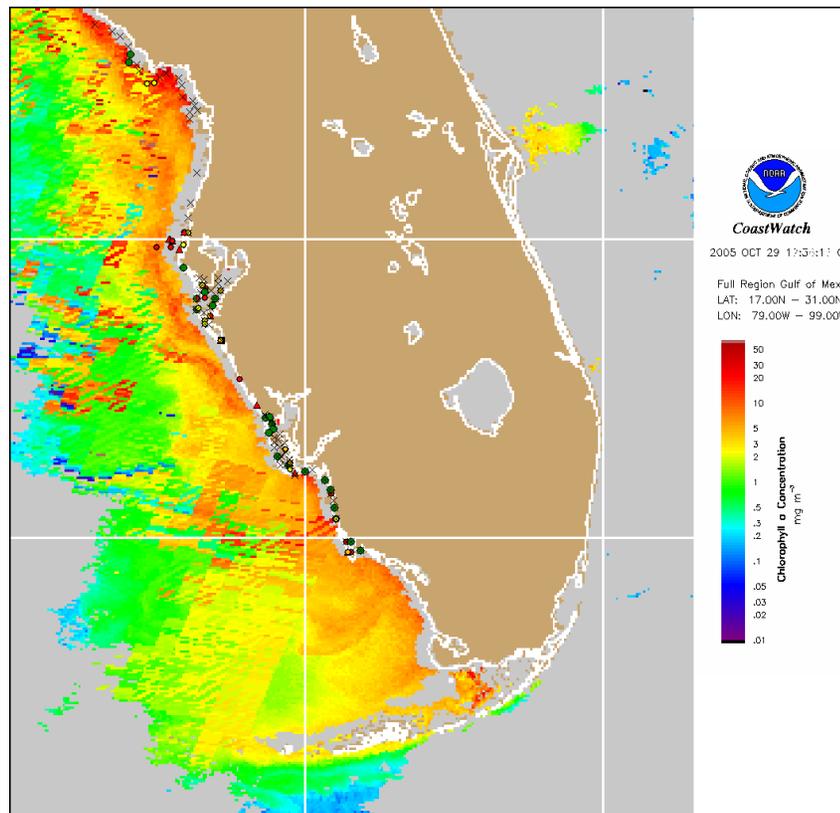
National Environmental Satellite, Data, and Information Service

Last bulletin: October 27, 2005

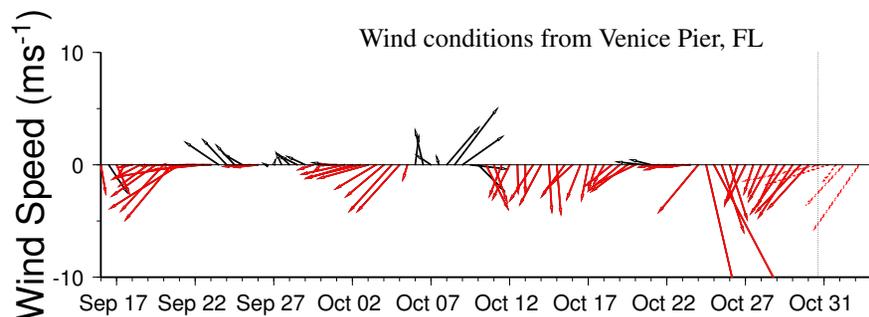
**Conditions:** Harmful algal blooms have been identified in patches in Levy County, near the mouth of Tampa Bay, and in Sarasota and Collier Counties. A second bloom has been identified in patches along the Florida panhandle and Alabama from Franklin County to Mobile County. Very low impacts are possible in Levy and Sarasota Counties through Thursday. Very low to low impacts are possible in Bay County through Thursday. Dead fish have been reported in Okaloosa County over the past few days. Dead fish smell, while unpleasant, doesn't produce the same respiratory irritation as red tide.

**Analysis:** The bloom continues to weaken along Southwest Florida. Sampling data from the past week has shown medium concentrations of *Karenia brevis* in Sarasota County. Some resuspension due to Hurricane Wilma remains. A wind transport model indicates possible bloom movement of 20 km northward since 10/27. Offshore winds will minimize coastal impact. Minimal movement of the bloom is expected. Chlorophyll remains elevated near Marco Island (approximately 10  $\mu\text{g/L}$ ). No recent samples are available, but this is primarily due to an ongoing diatom bloom.

Bronder, Stolz



Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from October 19, 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).

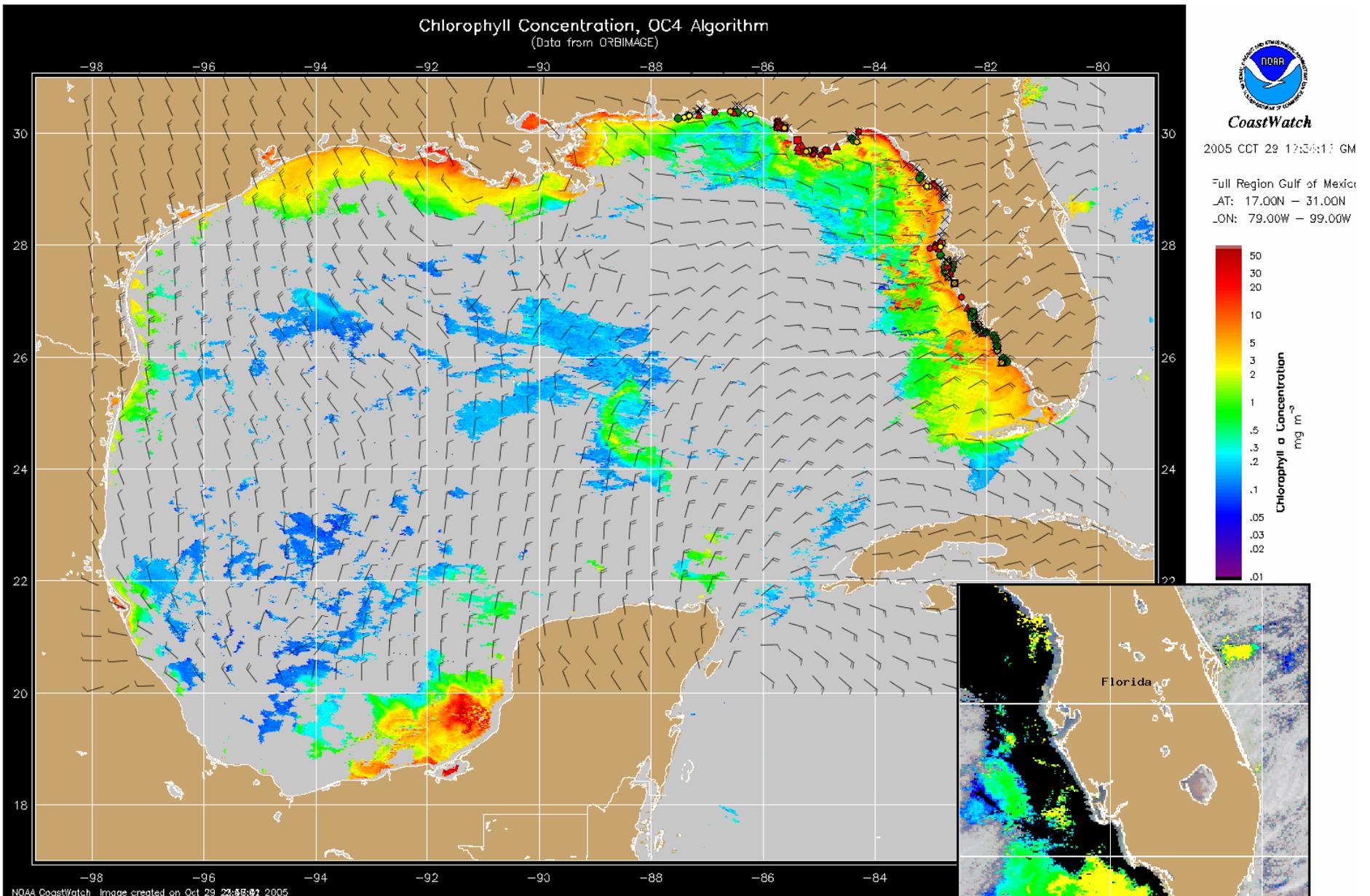


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right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

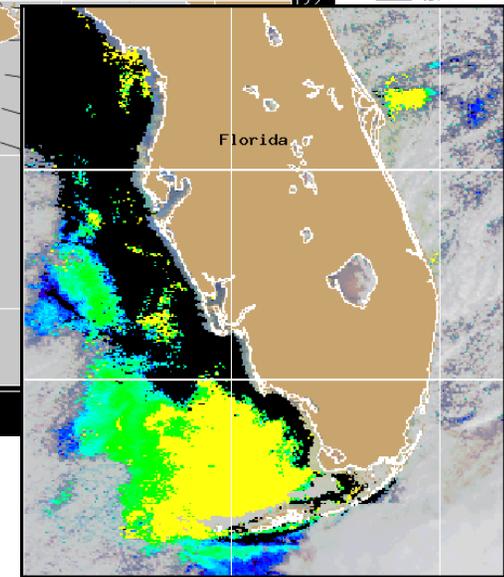
Winds will be northeast (15 kts, 8 m/s) today, east (10 kts, 5 m/s) tomorrow, north (15 kts, 8 m/s) Wednesday and Thursday.

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Chlorophyll concentration from satellite and forecast winds for November 1, 2005 12Z with cell concentration sampling data from October 19, 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)