



Gulf of Mexico Harmful Algal Bloom Bulletin

29 November 2004

National Ocean Service

National Environmental Satellite, Data, and Information Service

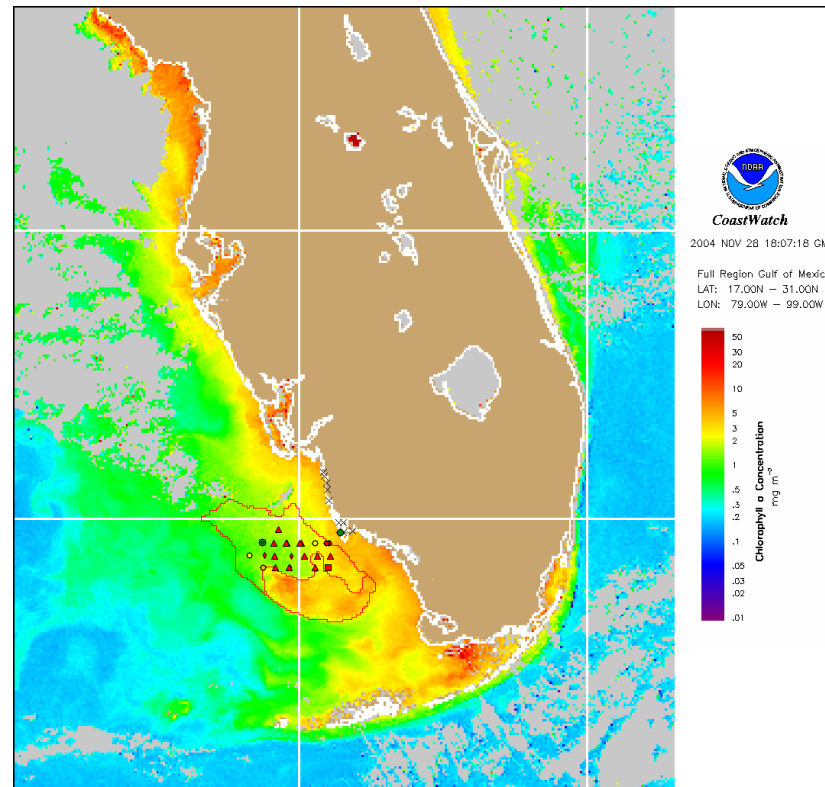
Last bulletin: November 24, 2004

Conditions: A harmful algal bloom has been identified off the coast of Cape Romano. Discolored water is possible southwest of Cape Romano. Very low beach impacts are expected through Thursday.

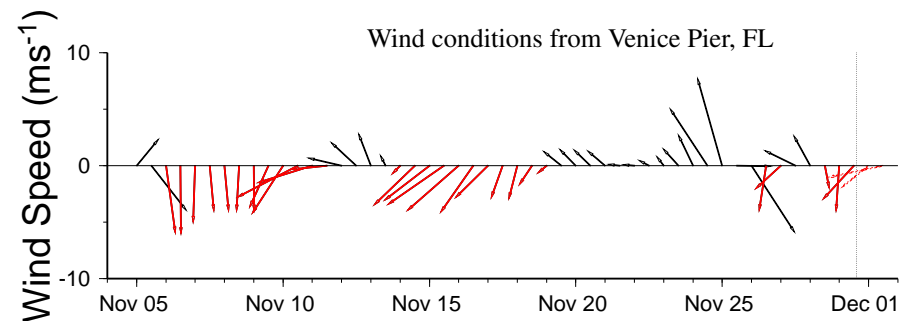
Analysis: The confirmed *K. brevis* bloom located southwest of Cape Romano moved very slightly northward over the past week. Chlorophyll concentrations have intensified intermittently throughout the bloom with satellite imagery recording maximum levels up to $12 \mu\text{g/L}$ at the northwestern edge of the bloom ($82^\circ 6' \text{W}$, $25^\circ 34' \text{N}$) and up to $10 \mu\text{g/L}$ onshore at $81^\circ 23' \text{W}$, $25^\circ 45' \text{N}$. Changing conditions throughout this week should prevent noticeable movement of the bloom through Thursday. Slight intensification is possible. Southerly winds may promote very low impacts at the beach on Wednesday; impacts are unlikely the remainder of the week.

* Offshore samples indicated in chlorophyll image were collected during the week of November 11 from a MERHAB cruise.

~Fisher, Bronder



Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from November 21, 2004 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).

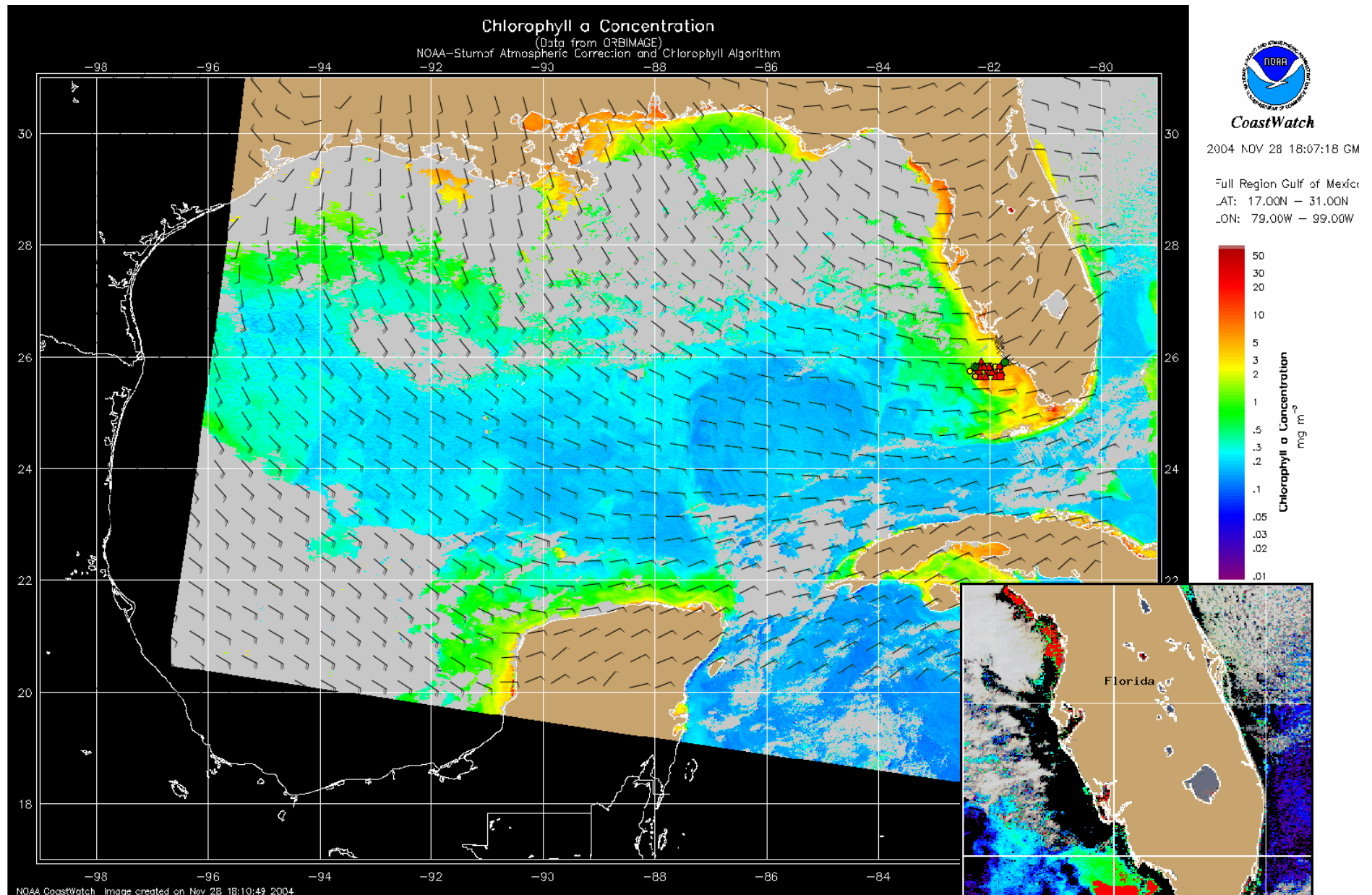


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right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

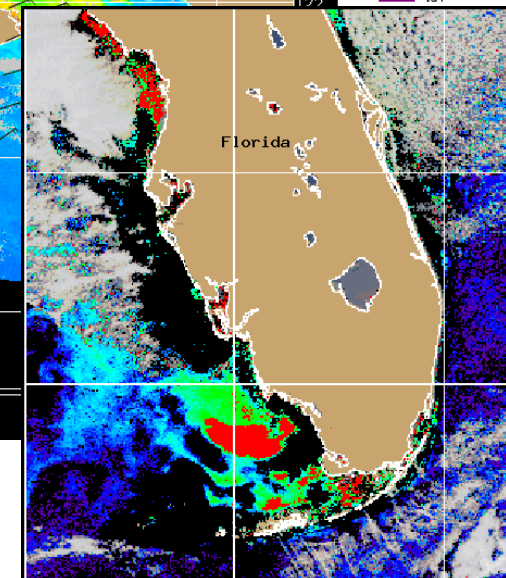
Predominant easterlies expected to turn southeasterly tomorrow. Winds will continue clocking to the south/southwest on Wednesday and north/northeast Thursday at a steady 5-10 knots (3-5 m/s). Northeasterlies forecasted to strengthen Friday to 10-15 knots (5-7 m/s).

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.



Chlorophyll concentration from satellite and forecast winds for November 30, 2004 12Z with cell concentration sampling data from November 21, 2004 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 and image for interpretation)