



## Gulf of Mexico Harmful Algal Bloom Bulletin

3 November 2004

National Ocean Service

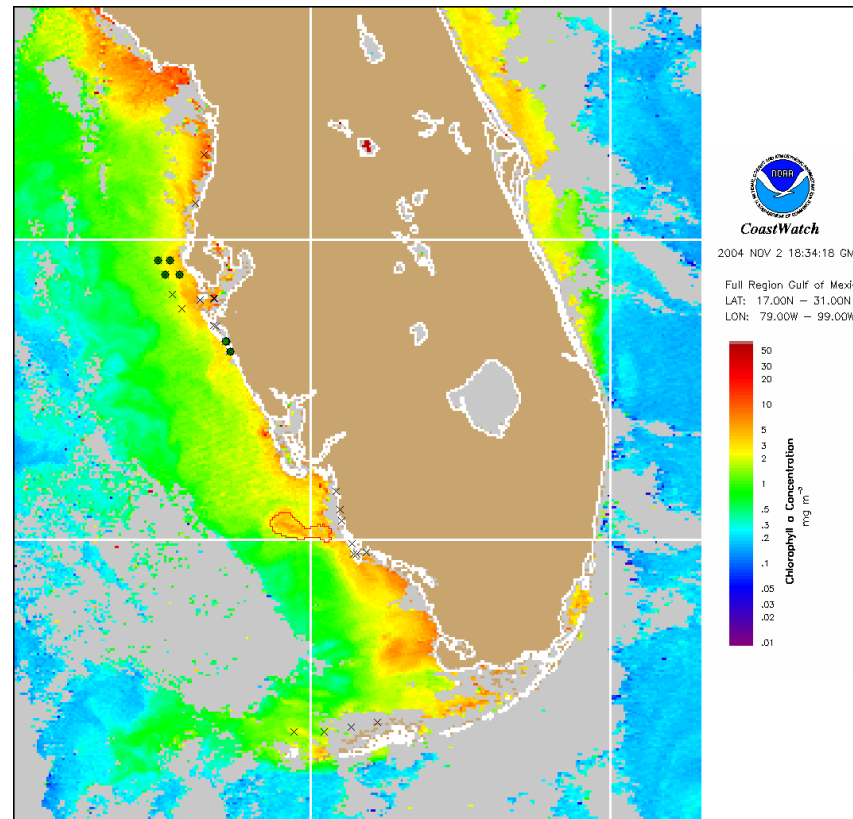
National Environmental Satellite, Data, and Information Service

Last bulletin: November 2, 2004

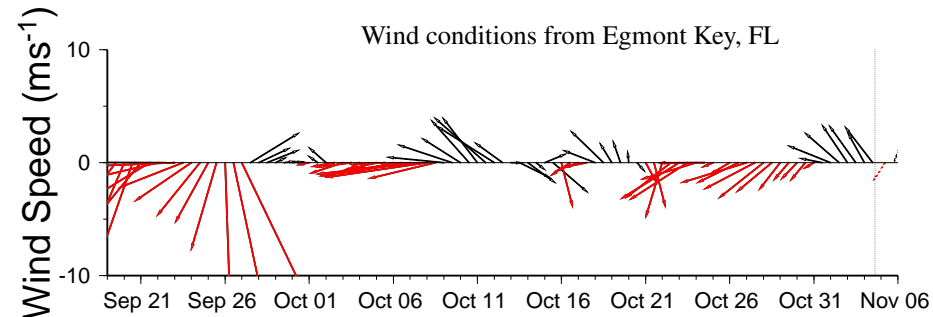
**Conditions:** Analysis indicates there are no known harmful algal blooms in any Florida counties.

**Analysis:** FWRI samples from October 18-21 showed a medium and several very low concentrations offshore from Sanibel to Cape Romano. From October 22-31 northeast winds were favorable for offshore transport, upwelling and feature intensification. Samples nearshore on October 25 and November 1 did not contain *K. brevis*. An elevated chlorophyll feature is extended offshore (82d13'W, 26d4'N) of Sanibel to Naples. Onshore winds forecasted for Wednesday afternoon followed by southerly winds clocking around to westerly winds on Thursday.

Fenstermacher & Fisher



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

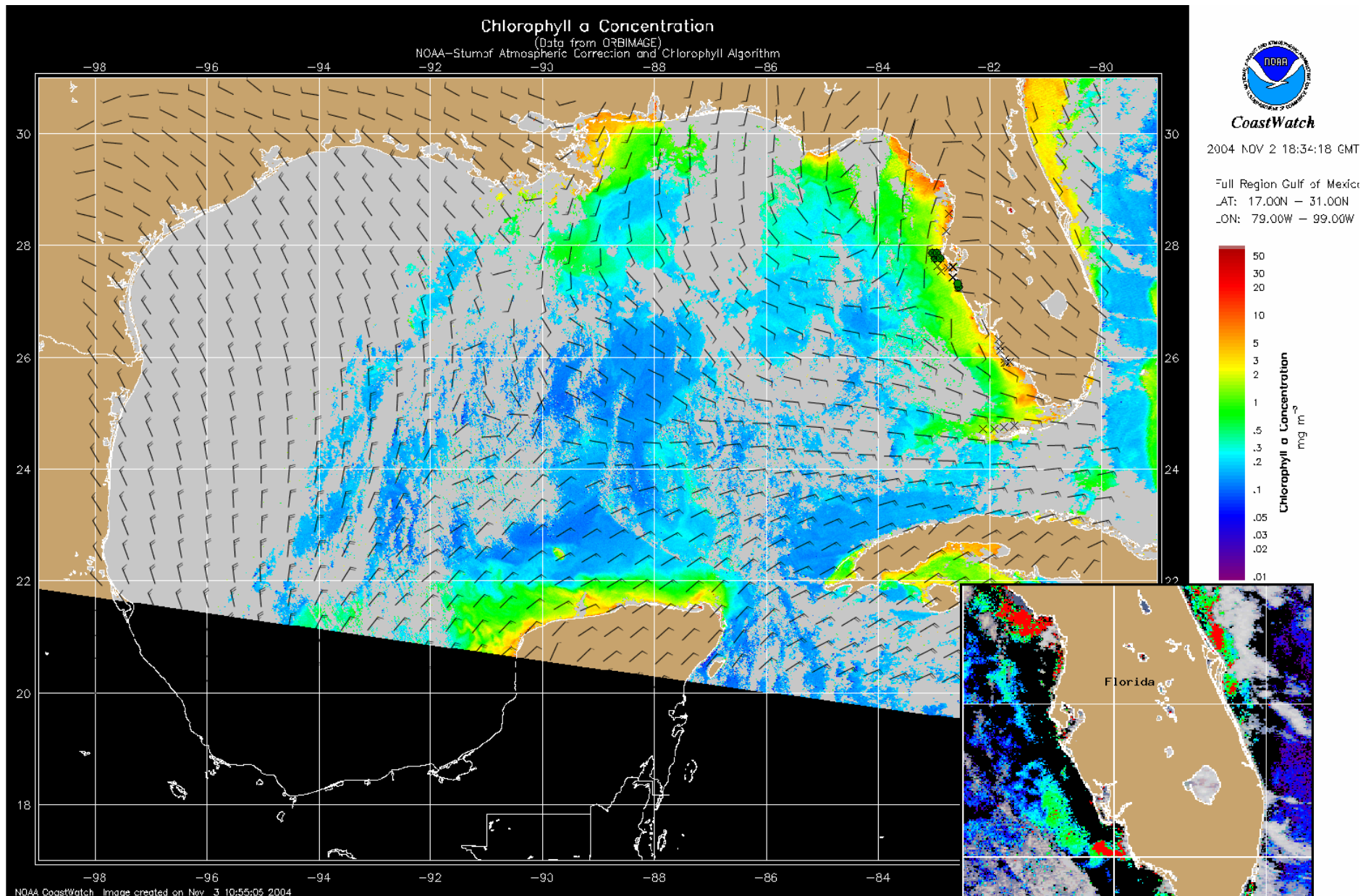


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right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

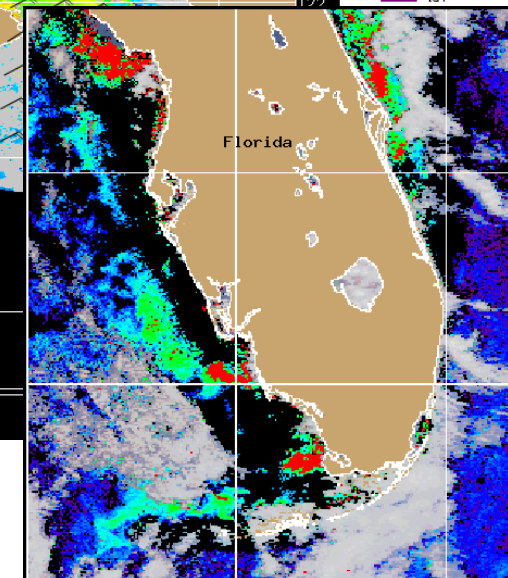
Onshore winds forecasted for Wednesday afternoon followed by southwest winds clocking around to west winds through Thursday. Northerly to northeasterly through Sunday.

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Chlorophyll concentration from satellite and forecast winds for November 4, 2004 06Z with cell concentration sampling data from October 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)