



Gulf of Mexico Harmful Algal Bloom Bulletin

29 September 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: September 29, 2005

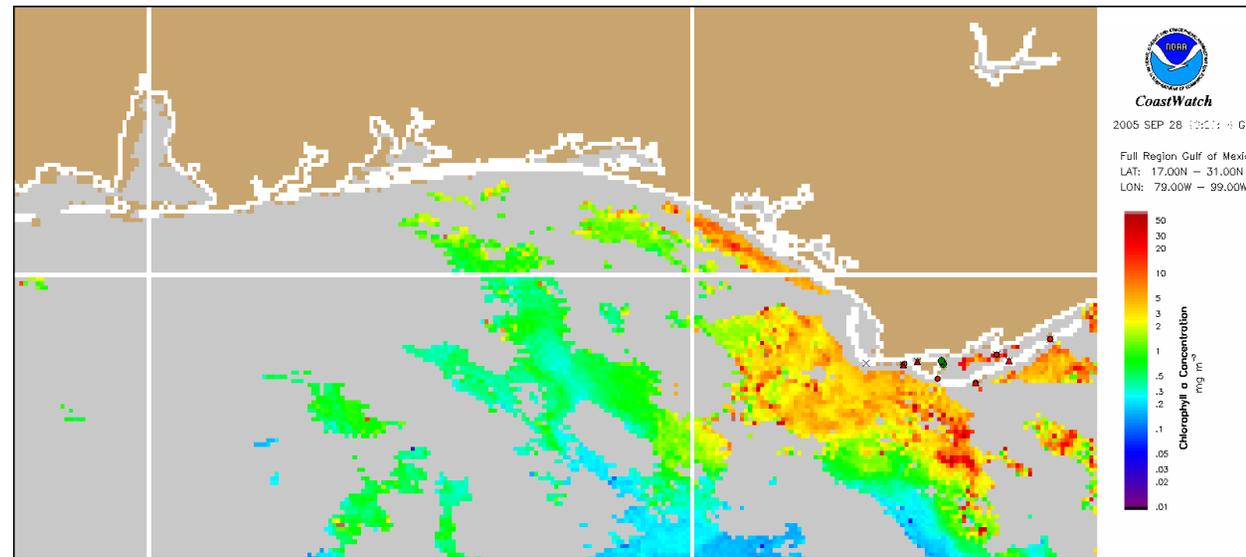
Conditions: Harmful algal blooms have been identified from Pinellas County to Collier County and from Bay to Levy County. The following patchy impacts are possible today and tomorrow, especially in the afternoon: low in eastern Bay, northern Pinellas, southern Lee, and Collier Counties; moderate in central to southern Pinellas, northern to central Manatee, central to southern Sarasota, and northern to central Lee Counties; high in eastern Gulf, western Franklin, southern Manatee and northern Sarasota Counties; very low in eastern Franklin and Charlotte Counties. The following patchy impacts are possible Saturday: very low in eastern Franklin, Pinellas, southern Lee, Collier, northern to central Manatee, central to southern Sarasota, and northern to central Lee Counties; low in eastern Bay, southern Manatee and northern Sarasota Counties; high in eastern Gulf and western Franklin Counties. The following patchy impacts are possible Sunday and Monday: very low in eastern Bay, Pinellas, Lee, Collier, northern to central Manatee, and central to southern Sarasota Counties; low in eastern Gulf, western Franklin, southern Manatee and northern Sarasota Counties. Dead fish have been reported in Dunedin, Bradenton Beach, Sanibel, Fort Myers Beach, Englewood, Cape Coral, Venice, and Bradenton since September 22. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as red tide.

Analysis: Imagery indicates the bloom persists off the panhandle. South of Apalachicola Bay, imagery indicates a chlorophyll concentration $>20 \mu\text{g/L}$ at $29^{\circ}20'N$ $85^{\circ}W$. Sampling is recommended. Northwestward expansion of the bloom is possible through Monday.

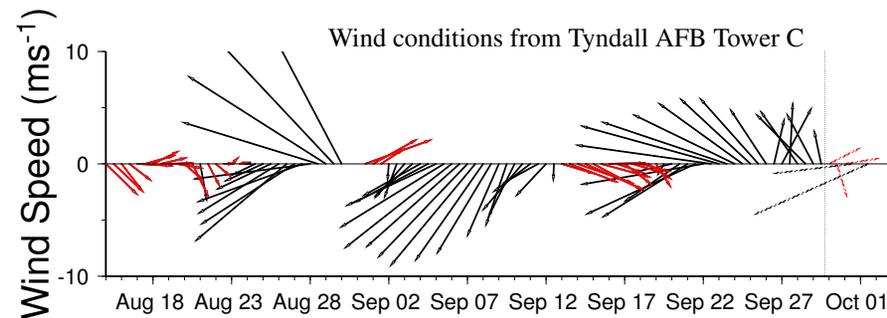
Bronder, Fenstermacher

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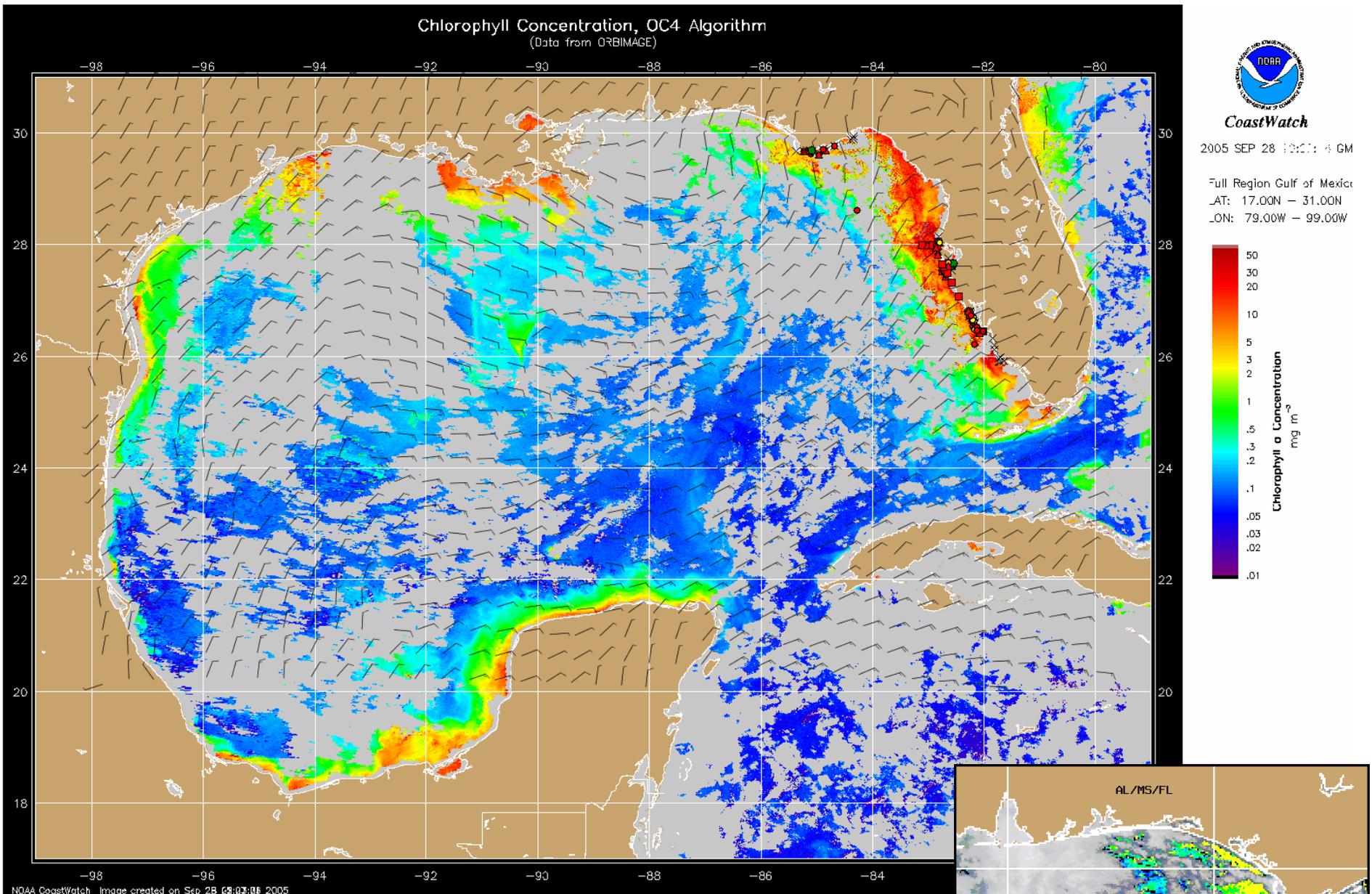


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s).



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 south (10 kts, 5 m/s) today, east (10 kts, 5 m/s) tomorrow, east (15 kts, 8 m/s) Saturday, northeast (15 kts, 8 m/s) Sunday and Monday.



Chlorophyll concentration from satellite and forecast winds for September 30, 2005 12Z with cell concentration sampling data from September 9, 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)