



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

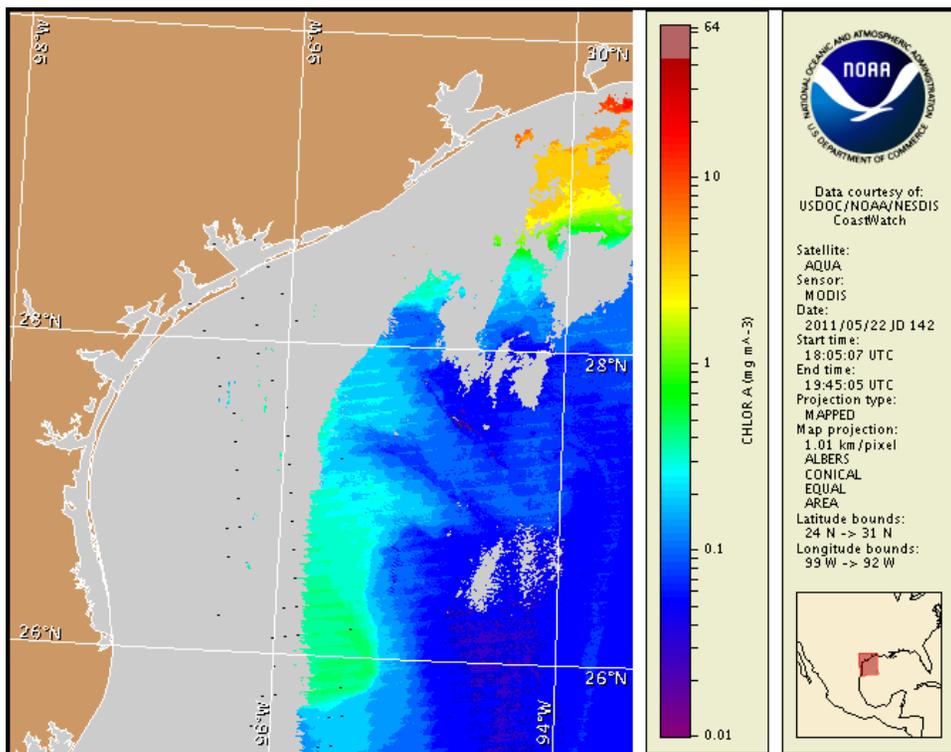
Monday, 23 May 2011

NOAA Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, May 16, 2011



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from May 13 to 19 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfbs_bulletin_guide.pdf

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:

<http://tidesandcurrents.noaa.gov/hab/bulletins.html>

Conditions Report

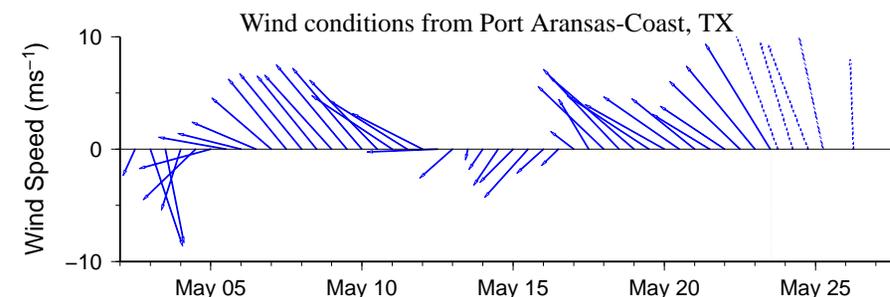
There is currently no indication of a harmful algal bloom at the coast in Texas. No impacts are expected alongshore Texas today through Monday, May 30.

Analysis

****Due to the upcoming Federal Holiday, the next bulletin will be issued on Tuesday, May 31.****

There is currently no indication of a harmful algal bloom along the coast of Texas. Recent imagery is almost completely obscured by clouds along the majority of the Texas coastline, limiting analysis. A patch of elevated chlorophyll (3-7 $\mu\text{g/L}$) is visible just southwest of Sabine Pass. Imagery from 5/16 (MODIS) indicated elevated chlorophyll (2- >10 $\mu\text{g/L}$) along the coast from Sabine Pass to the Corpus Christie Bay area with patches of high chlorophyll (>10 $\mu\text{g/L}$) present from Sabine Pass to San Luis Pass. Elevated chlorophyll present at the coast is likely due to the resuspension of benthic chlorophyll and sediments and not related to a harmful algal bloom. Forecast models indicate negligible transport (<10km) south along the coast from Port Aransas from May 22-26.

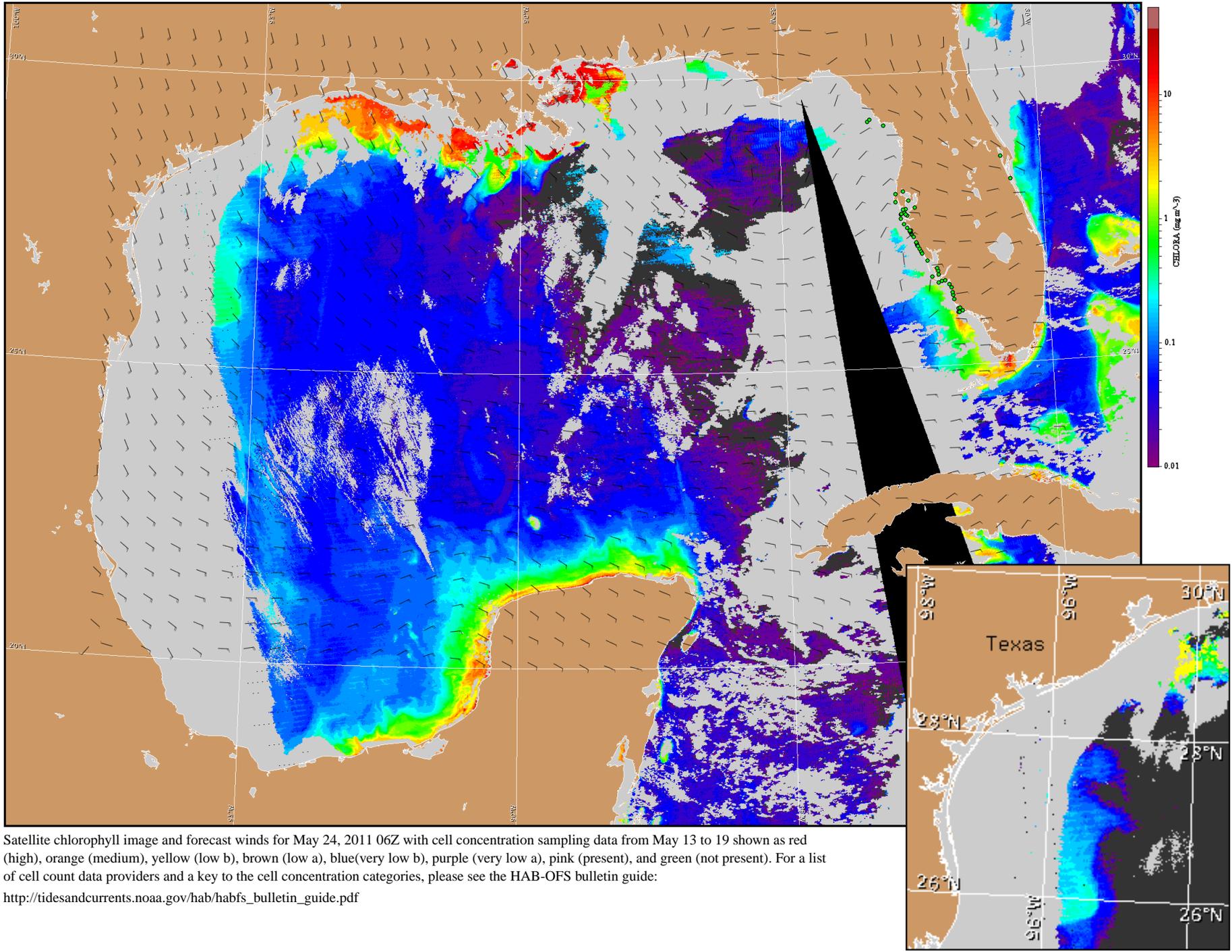
Derner, Kavanaugh



Wind speed and direction are averaged over 12 hours from buoy measurements. 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. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

Wind Analysis

Port Aransas: South wind (20-25kn, 10-13m/s) today becoming southeast in the afternoon. Southeast winds (10-25kn, 5-13m/s) Tuesday through Thursday, shifting east (5-10kn, 3-5m/s) Thursday afternoon through Friday. Southeast winds (10-15kn, 5-8m/s) Friday afternoon.



Satellite chlorophyll image and forecast winds for May 24, 2011 06Z with cell concentration sampling data from May 13 to 19 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide: http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).