Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

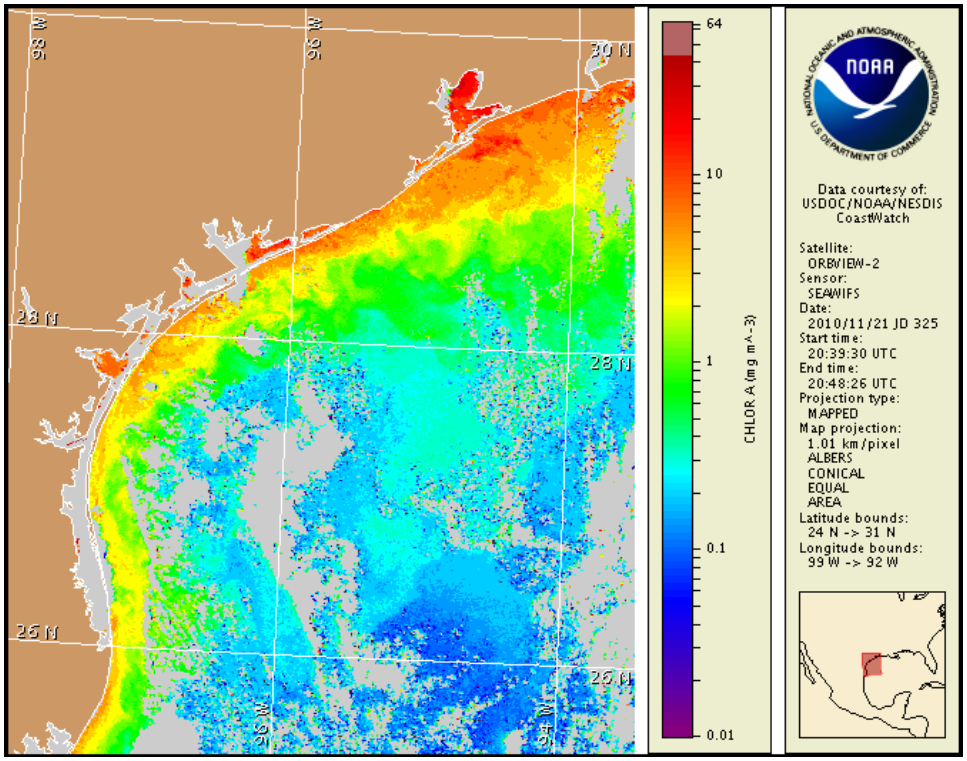
22 November 2010

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: November 15, 2010



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from November 12 to 17 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 HABFS bulletin guide:

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

Conditions Report

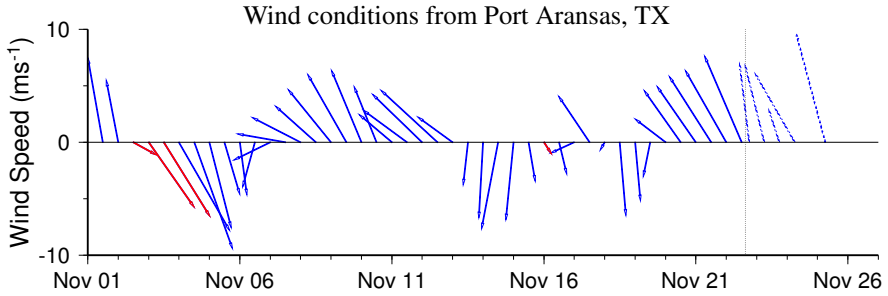
There is currently no indication of a harmful algal bloom at the coast in Texas. No impacts are expected alongshore Texas today through Sunday, November 28.

Analysis

There is currently no indication of a harmful algal bloom along the coast of Texas. Elevated chlorophyll is visible in imagery along much of the Texas coastline. A broad band of elevated to high chlorophyll (2 to >10 μg/L) is visible along- and offshore stretching from Port Arthur to Mustang Island. Elevated chlorophyll (2-6μg/L) is also visible in patches south of Mustang Island, along- and offshore Padre and South Padre Islands. Elevated chlorophyll appears to be due to the resuspension of benthic chlorophyll and sediments as a result of strong winds over the past several days and is most likely not related to a harmful algal bloom.

Forecast models indicate a potential maximum transport of 10km north along the coast from Port Aransas from November 22-24.

Derner, Kavanaugh

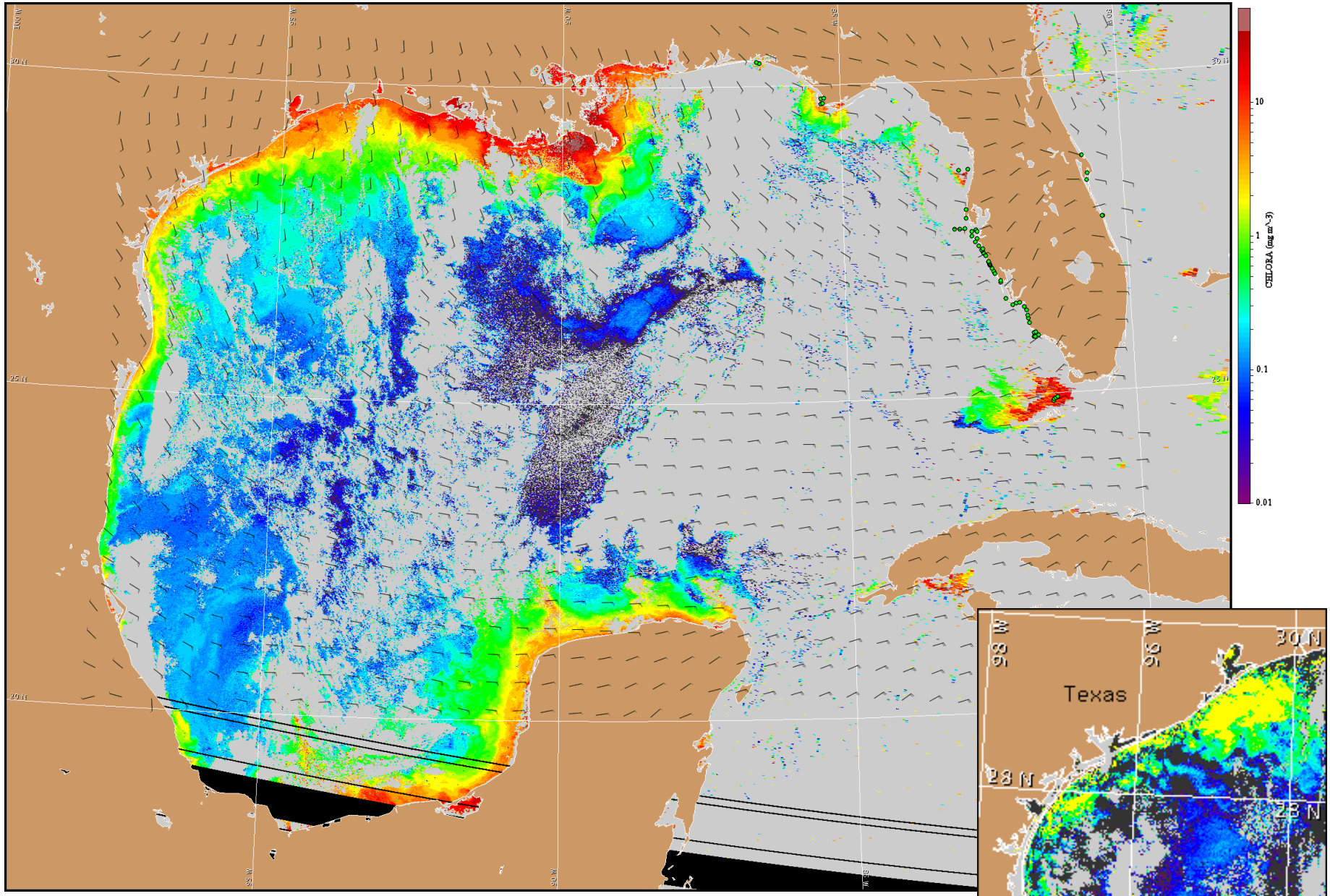


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

Wind Analysis

Southeast winds (10-20kn, 5-10m/s) today through Wednesday. South wind (15-20kn, 8-10m/s) Thursday. North wind (25-30kn, 13-15m/s) Friday.

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



Satellite chlorophyll image and forecast winds for November 23, 2010 12Z with Cell concentration sampling data from November 12 to 17 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 HABFS 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).