



# Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

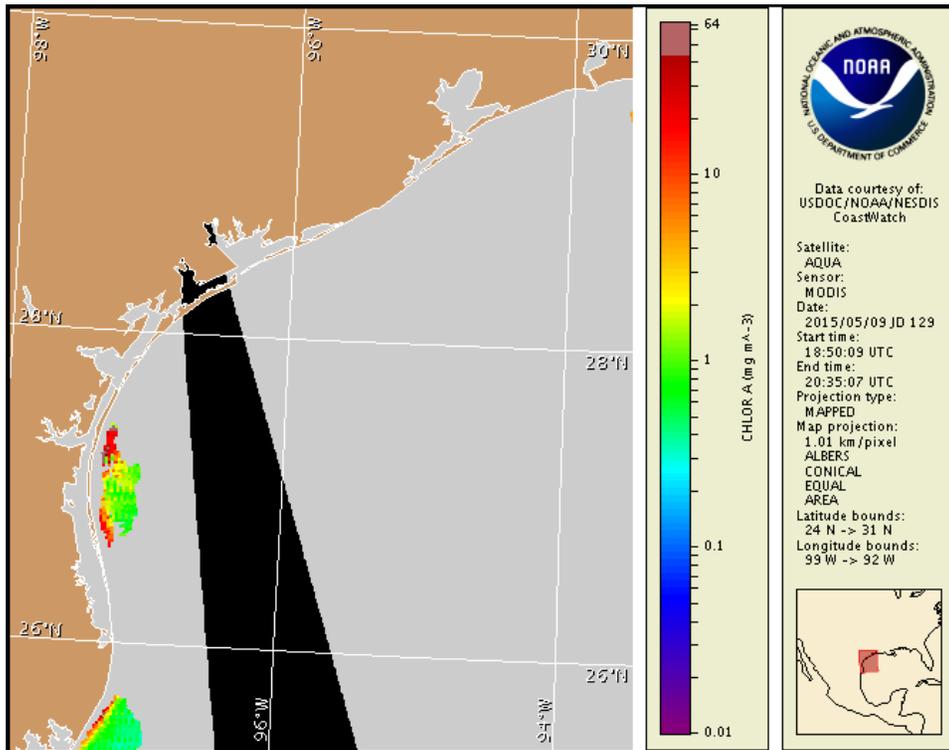
Monday, 11 May 2015

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, May 4, 2015



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from May 1 to 7: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample 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](http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf)

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at:

<http://www.tpwd.state.tx.us/landwater/water/enviroconcerns/hab/redtide/status.phtml>

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 *Karenia brevis* (commonly known as Texas red tide) along the coast of Texas. No respiratory irritation is expected Monday, May 11 through Monday, May 18.

Check [http://tidesandcurrents.noaa.gov/hab/beach\\_conditions.html](http://tidesandcurrents.noaa.gov/hab/beach_conditions.html) for recent, local observations.

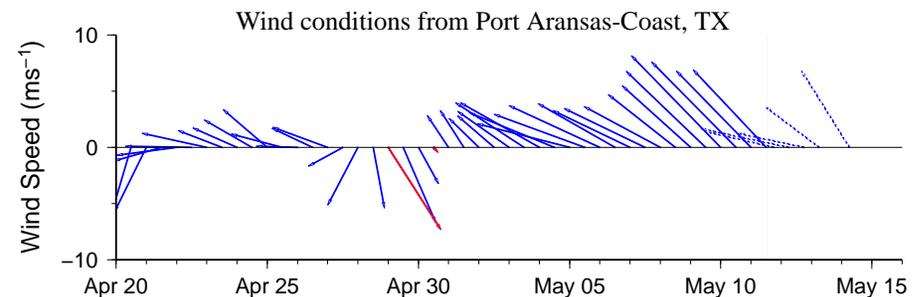
## Analysis

Recent *Karenia brevis* cell concentrations from the Texas A&M University's Imaging FlowCytobot, located on the Port Aransas ship channel, are currently not available. The most recent samples indicated that *K. brevis* concentrations ranged between 'not present' and 'background' (TAMU; 4/13-4/18). For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Over the past week, MODIS Aqua imagery (5/9, shown left) has been mostly obscured by clouds from Sabine Pass to the Rio Grande, preventing analysis.

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 40 km south from the Port Aransas region from May 11 to May 14.

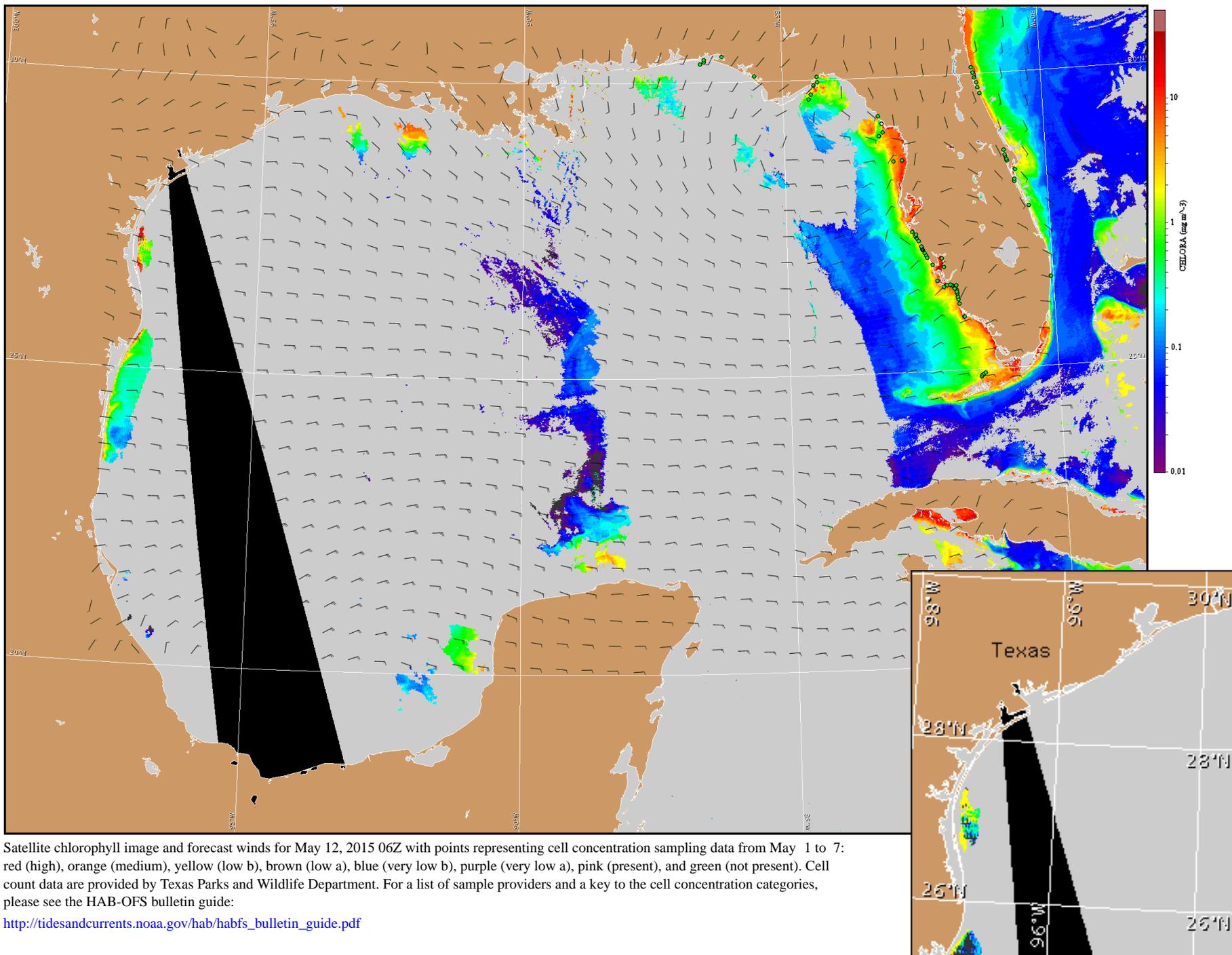
Lalime, Derner



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:** Southeast winds (20kn, 10m/s) this morning becoming east winds (10-15kn, 5-8m/s). Southeast winds (10-15kn) tonight through Friday.



Satellite chlorophyll image and forecast winds for May 12, 2015 06Z with points representing cell concentration sampling data from May 1 to 7: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

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