Gulf of Mexico Harmful Algal Bloom Bulletin
Region: Texas
Monday, 17 July 2017
NOAA National Ocean Service
NOAA Satellite and Information Service
NOAA National Weather Service
Last bulletin: Monday, July 10, 2017

Conditions Report

*Karenia brevis* (commonly known as Texas red tide) ranges from not present to background concentrations along the coast of Texas. No respiratory irritation is expected alongshore Texas Monday, July 17 through Monday, July 24. For local information check the Texas Parks and Wildlife Department Red Tide page (http://tpwd.texas.gov/landwater/water/environconcerns/hab/redtide/).

Analysis

Sampling from Texas A&M University’s Imaging FlowCytobot (IFCB), located on the Port Aransas ship channel, indicates that *Karenia brevis* concentrations range between ‘not present’ and ‘background’ (TAMU; 7/10-17). For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent MODIS Aqua ensemble imagery (7/14; shown left) is obscured by clouds along the Texas coast from Sabine Pass to Sargent Beach, preventing analysis of that region. Elevated chlorophyll (2 to 7 µg/L) is visible alongshore from the Matagorda Peninsula to the Rio Grande, but does not contain the optical characteristics of *K. brevis* and is most likely due to the resuspension of benthic chlorophyll and sediments along the coast.

Forecast models based on predicted near-surface currents indicate negligible transport from the Port Aransas region from July 14-20.

Davis, Ludema

![Wind conditions from Port Aransas-Coast, TX](image)

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 to Matagorda Ship Channel:** Southerly winds (5-15kn, 3-8m/s) today through Friday.
Satellite chlorophyll image and forecast winds for July 18, 2017 06Z with points representing cell concentration sampling data from July 7 to 13: 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: https://tidesandcurrents.noaa.gov/hab/hab_publication/GOMX_HAB_Bulletin_Guide.pdf

Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).