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 alongshore Texas Monday, October 16 through Monday, October 23. For local information, check the Texas Parks and Wildlife Department Red Tide page (http://tpwd.texas.gov/landwater/water/environconcerns/hab/redtide/).

Analysis
Data from Texas A&M University’s Imaging FlowCytobot (IFCB), located on the Port Aransas ship channel, is currently unavailable. For information on area shellfish restrictions, contact the Texas Department of State Health Services.

In recent MODIS Aqua ensemble imagery (10/14; shown left), elevated to high chlorophyll (2 to 14 µg/L) is visible in patches alongshore from Sabine Pass to the Rio Grande. However, elevated chlorophyll in this region is most likely due to the resuspension of benthic chlorophyll and sediments along the coast.

Forecast models based on predicted near-surface currents indicate a potential maximum transport of >150 km south from the Port Aransas region from October 14 to October 19.

Keeney, Davis

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**: North to northeast winds (5-25kn, 3-13m/s) today through Tuesday. East to southeast winds (5-15kn, 3-8m/s) Wednesday through Friday.

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To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the Gulf of Mexico HAB:

https://tidesandcurrents.noaa.gov/hab/gomx.html
Satellite chlorophyll image and forecast winds for October 17, 2017 06Z with points representing cell concentration sampling data from October 6 to 12: 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).