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 Monday, May 16 through Monday, May 23.

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

Analysis

Data from Texas A&M University’s Imaging FlowCytobot, located on the Port Aransas ship channel, indicates that *Karenia brevis* concentrations ranges from ’not present’ to ’background’ (TAMU; 5/9-5/16). For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent MODIS Aqua imagery has been obscured by clouds along- and offshore the Texas coast, preventing analysis. In MODIS Aqua imagery from 5/13 (shown left), elevated to very high chlorophyll (2 to >20 µg/L) is visible along- and offshore the Texas coast from the Matagorda Peninsula to South Padre Island.

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 50km south from the Port Aransas region from May 13-19.

Davis, Keeney

**Wind Analysis**

**Port Aransas to Matagorda Ship Channel:** South to southeast winds (10-20kn, 5-10m/s) today through Tuesday. East to northeast winds (10-15kn, 5-8m/s) Wednesday. Southeast to south winds (5-10kn, 3-5m/s) Thursday and Friday becoming east winds (5-10kn) Friday evening.
Satellite chlorophyll image and forecast winds for May 17, 2016 06Z with points representing cell concentration sampling data from May 6 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:

http://tidesandcurrents.noaa.gov/hab/hab_publication/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).