Conditions Report

There is currently no indication of a harmful algal bloom of Karenia brevis at the coast in Texas. No respiratory impacts are expected alongshore the Texas coast today through Monday, April 29. For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Analysis

There is currently no indication of a harmful algal bloom of Karenia brevis at the coast in Texas. In MODIS Aqua imagery from 4/21 (shown left), patches of elevated to very high chlorophyll (8 to >20 µg/L) are visible along- and offshore from the Sabine Pass to the Bolivar Roads Pass regions, with patches of elevated chlorophyll (2-6 µg/L) visible along- and offshore from the Freeport region to south of the Rio Grande. Elevated chlorophyll is not indicative of the presence 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 a potential maximum transport of 80 km south from the Port Aransas region from April 21-25. Urizar, Kavanaugh

Satellite chlorophyll image with possible K. brevis HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from April 12 to 18: 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

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at:
http://www.tpwd.state.tx.us./landwater/water/environconcerns/hab/redtide/status.phtml

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

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