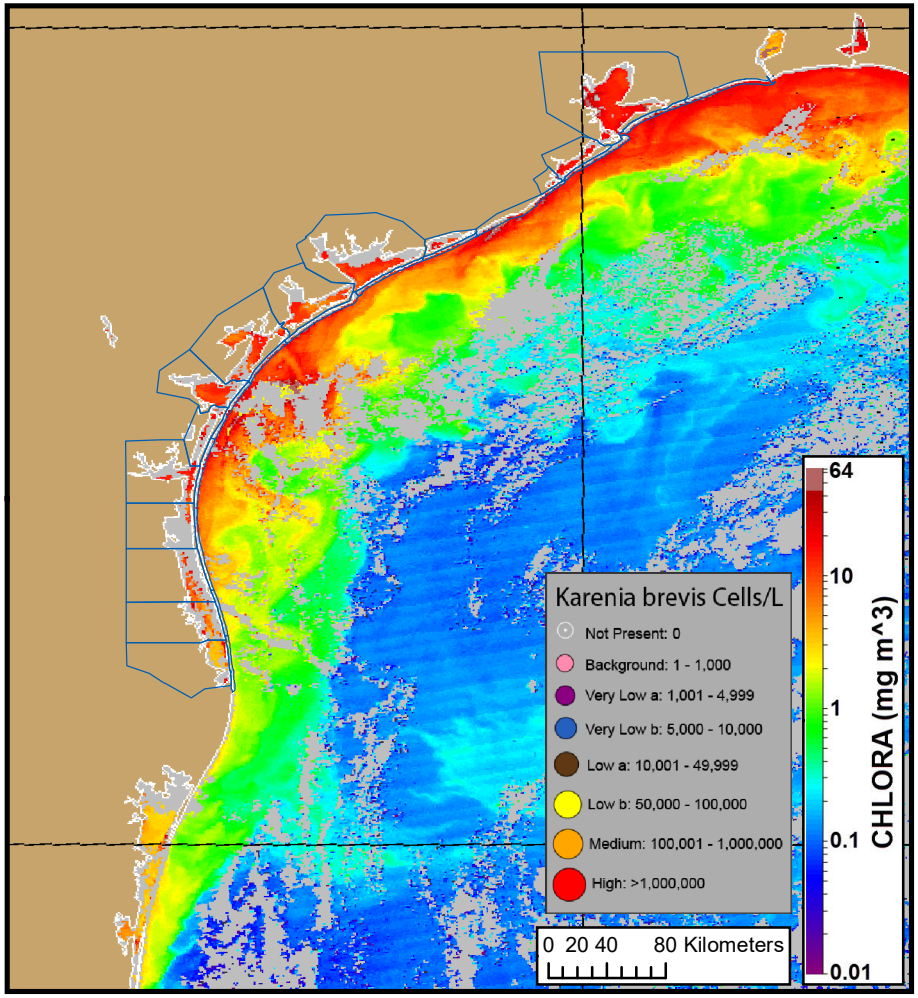
Gulf of Mexico Harmful Algal Bloom Bulletin

Monday, October 7, 2019
NOAA National Ocean Service
NOAA Satellite and Information Service
NOAA National Weather Service

Region: Texas

Instructions for viewing this geospatial pdf are available at: https://go.usa.gov/xn9g2.



Karenia brevis cell concentration sampling data from: 09/27/19 through 10/04/19. 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. 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.

MODIS Aqua satellite chlorophyll image (10/05/19) with possible *K. brevis* HAB areas shown by red polygon(s).

Conditions Report

Not present to background concentrations of *Karenia brevis* (commonly known as red tide) are present alongshore portions of the Texas coast. No respiratory irritation associated with *K. brevis*is expected in this region.

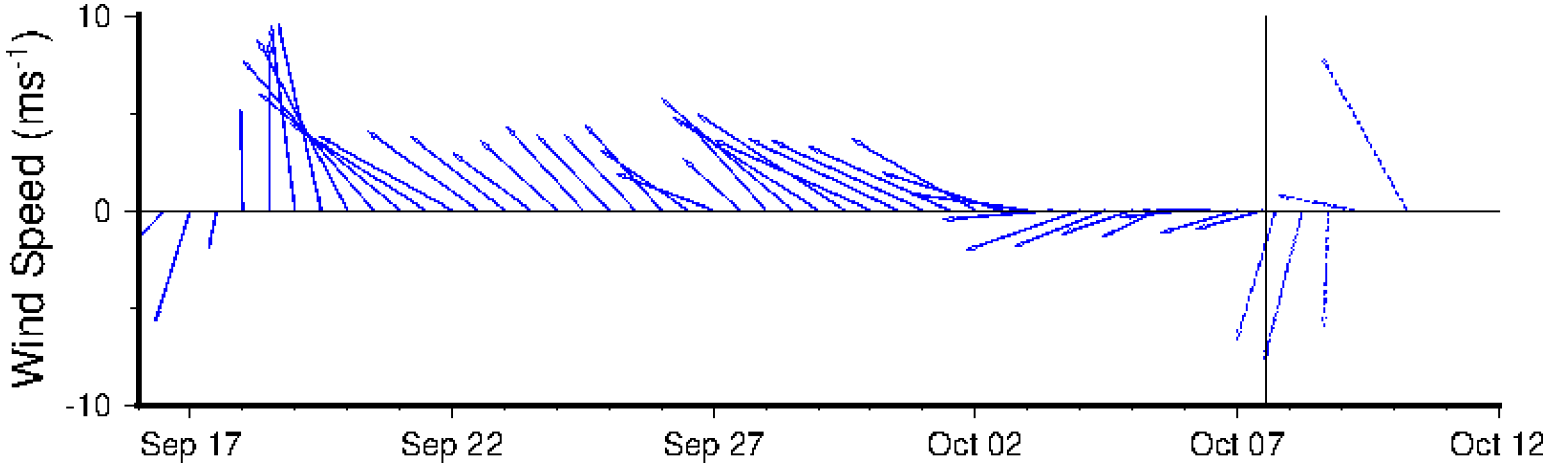
Analysis

Imagery:

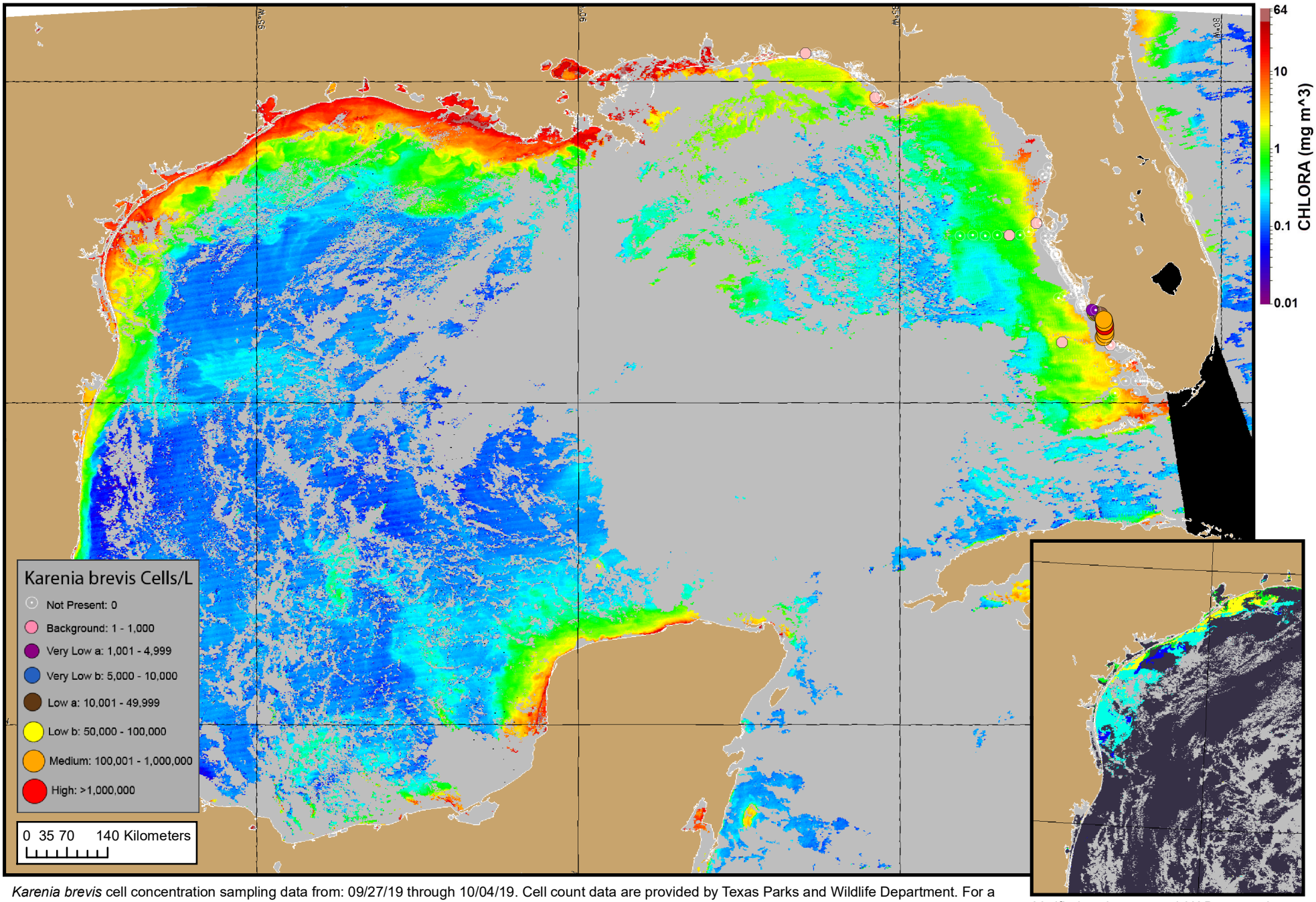
Recent ensemble imagery (MODIS Aqua, 10/5) indicates an increase in chlorophyll at the coast. Elevated to very high chlorophyll (2 to >20 µg/L) with the optical characteristics of *K. brevis* is present alongshore from Sabine Pass to the Padre Island National Seashore. However, *K. brevis* concentrations have not increased this week and elevated chlorophyll in this region may likely be due to the resuspension of benthic chlorophyll and sediments along the coast.

Davis, Jima

Wind conditions from Port Aransas-Coast, TX



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 vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS). A text summary of the marine forecast by region is available from NWS at https://www.weather.gov/marine/stheastmz.



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

MODIS Aqua satellite chlorophyll image (10/05/19).