



Gulf of Mexico Harmful Algal Bloom Bulletin

Monday, April 23, 2018

NOAA National Ocean Service

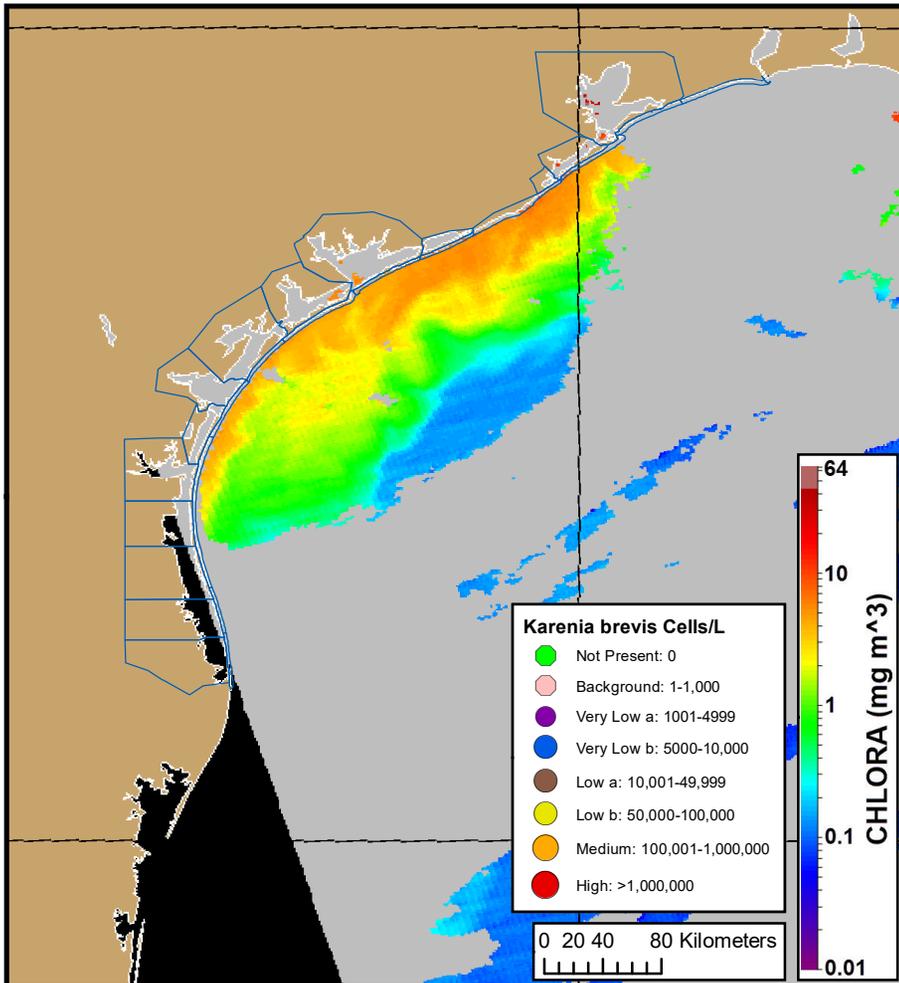
NOAA Satellite and Information Service

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: 04/13/18 through 04/20/18. 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/enviroconcerns/hab/redtide/status.phtml>.

MODIS Aqua satellite chlorophyll image (04/22/18) with possible *K. brevis* HAB areas shown by red polygon(s).

Conditions Report

No respiratory irritation associated with *Karenia brevis* (commonly known as Texas red tide) is expected in this region.

Analysis

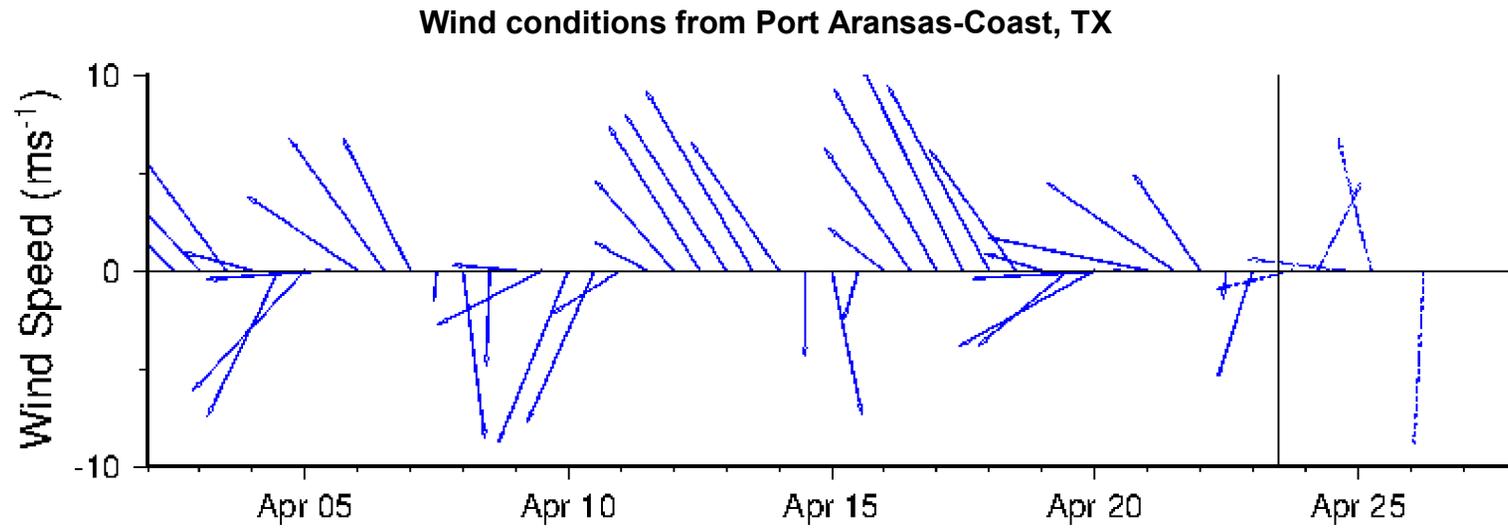
Imagery:

Recent ensemble imagery (MODIS Aqua, 4/22) is partially obscured by clouds from Sabine Pass to the Bolivar Roads Pass region and from Padre Island National Seashore to south of the Rio Grande, limiting analysis. A patch of elevated chlorophyll (1-6 $\mu\text{g/L}$) with the optical characteristics of *K. brevis* is visible offshore south of the San Luis Pass region. However, elevated chlorophyll in this region is most likely due to the resuspension of benthic chlorophyll and sediments along the coast.

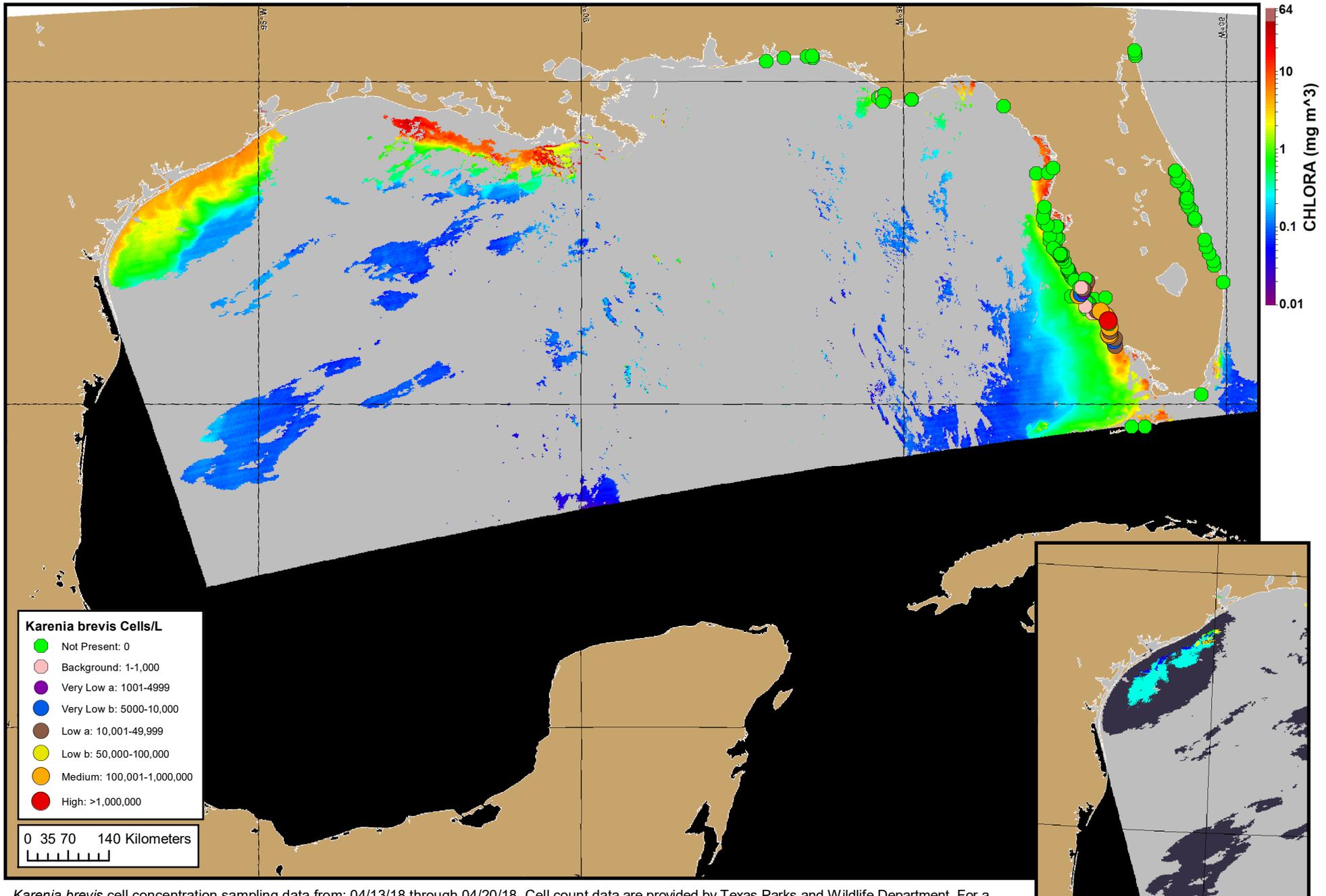
Forecasts:

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 10 km south along the coast from Port Aransas from April 22-26.

Kavanaugh, Urizar



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). A text summary of the marine forecast by region is available from NWS at <http://go.usa.gov/xnRax>.



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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).