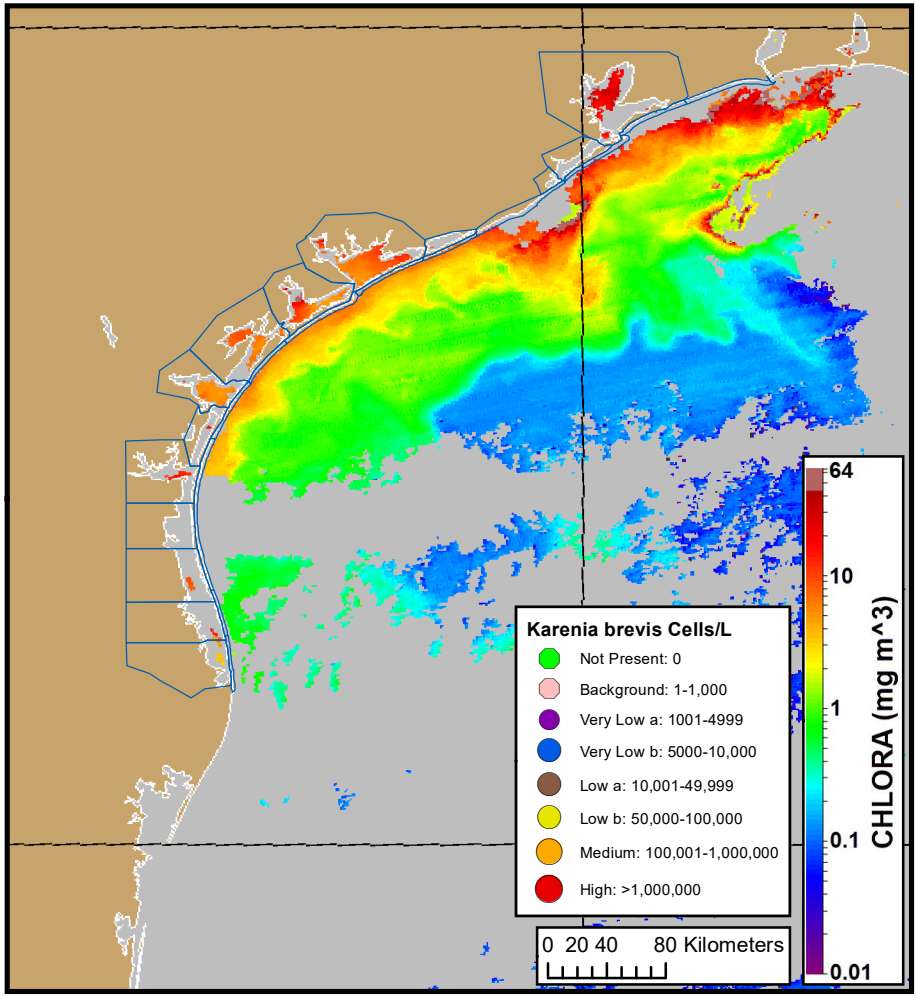
# Gulf of Mexico Harmful Algal Bloom Bulletin

Monday, May 07, 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: 04/27/18 through 05/03/18. 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/environconcerns/hab/redtide/status.phtml.

MODIS Aqua satellite chlorophyll image (05/06/18) 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:

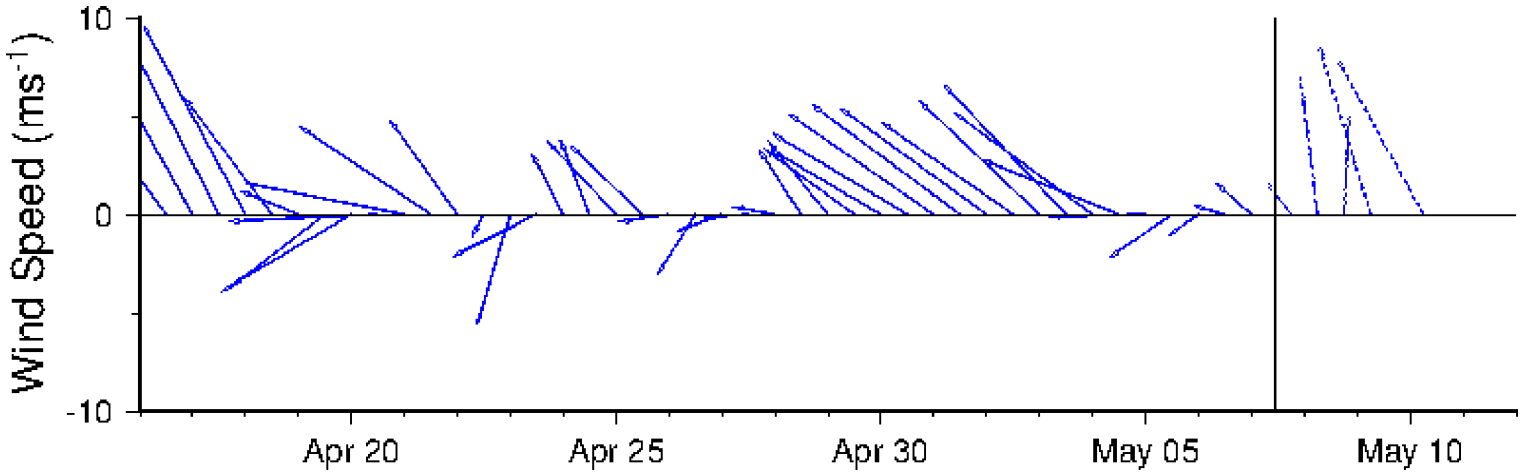
Recent ensemble imagery (MODIS Aqua, 5/6) shows elevated to very high chlorophyll (2 to >20 µg/L) with the optical characteristics of *K. brevis* from Sabine Pass to Galveston Island. However, elevated chlorophyll in this region is most likely due to the resuspension of benthic chlorophyll and sediments along the coast.

Forecasts:

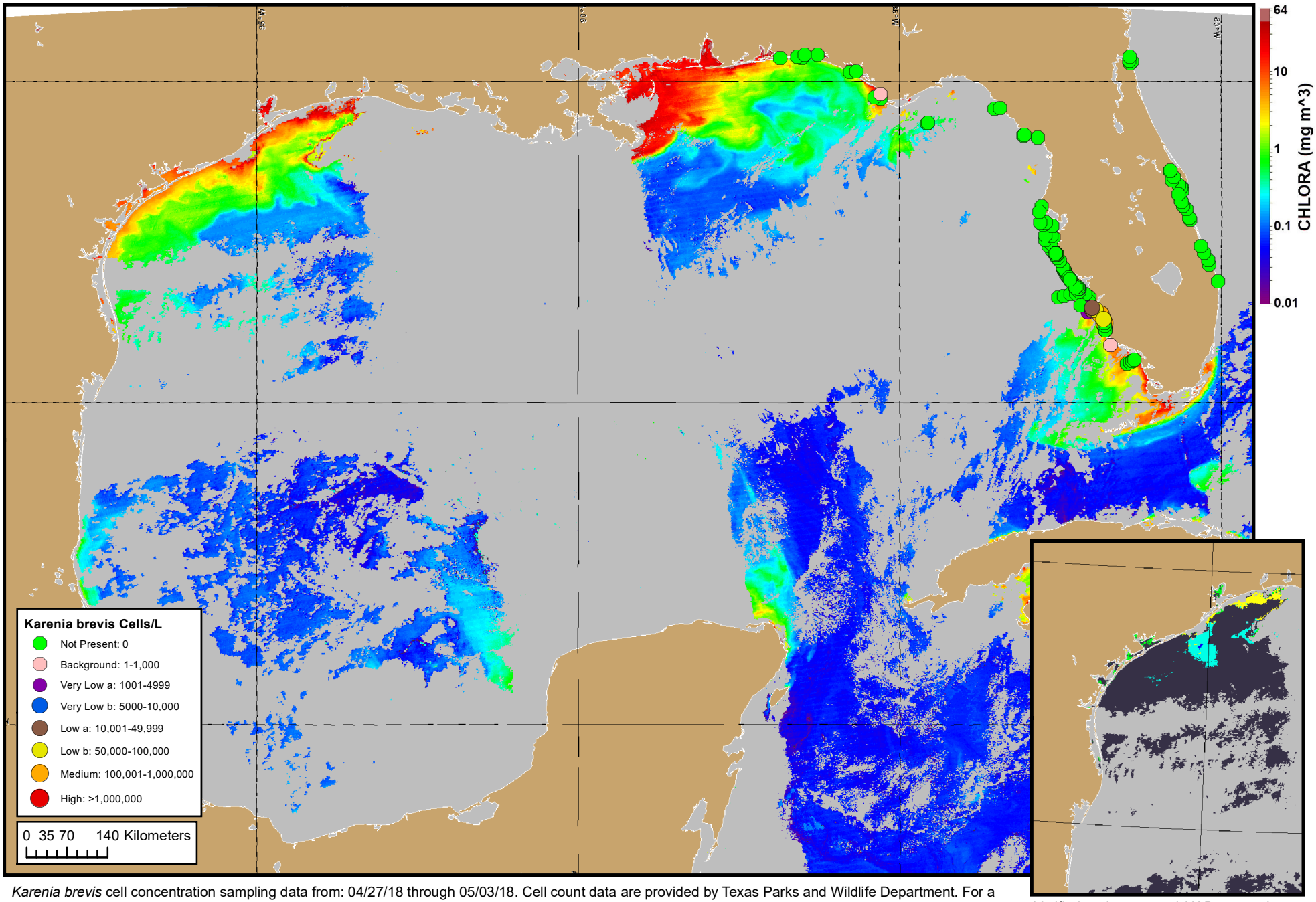
Forecast models based on predicted near-surface currents indicate a potential maximum transport of 30 km north along the coast from Port Aransas from May 6-10.

Davis, Ludema

## 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 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).

MODIS Aqua satellite chlorophyll image (05/06/18).