



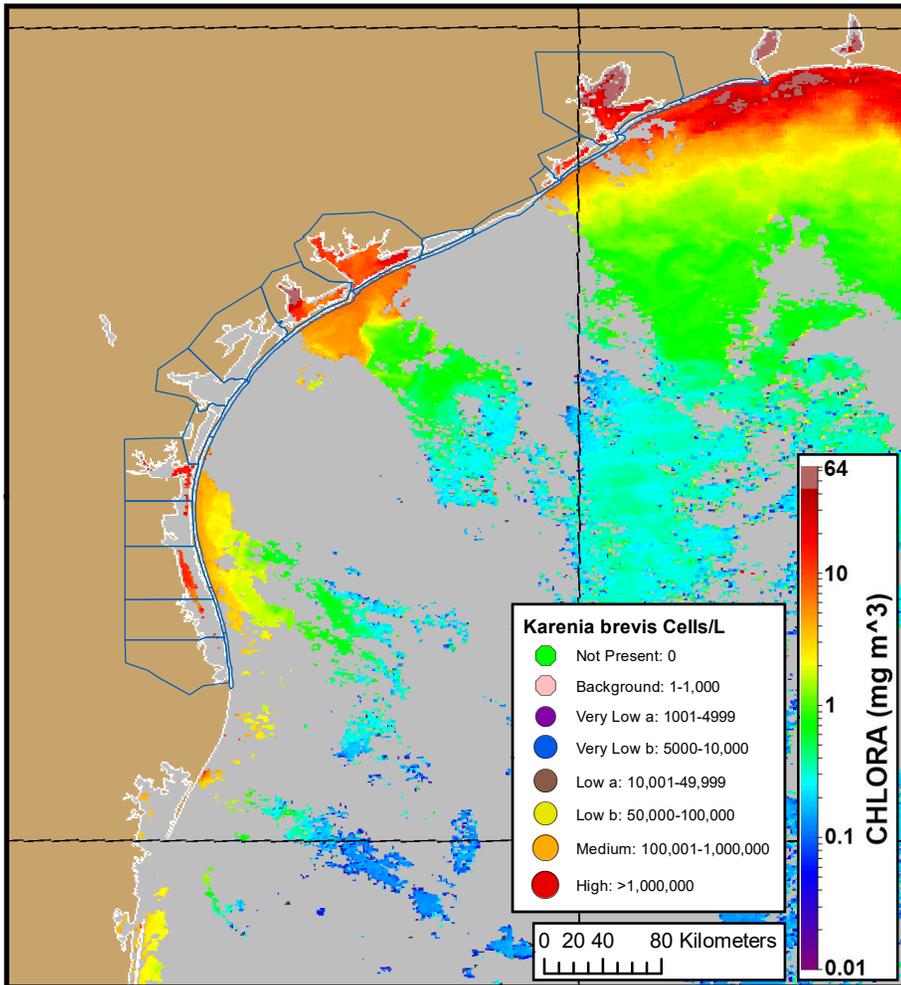
Gulf of Mexico Harmful Algal Bloom Bulletin

Monday, January 08, 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>.



Conditions Report

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

****Due to the upcoming federal holiday, the next bulletin will be issued on Tuesday, January 16.****

Analysis

Imagery:

Recent ensemble imagery (MODIS Aqua, 1/6) is partially obscured by clouds alongshore, limiting analysis. Patches of elevated chlorophyll (2-6 $\mu\text{g/L}$) with the some of the optical characteristics of *K. brevis* are present alongshore the Matagorda Bay regions and the Padre Island National Seashore. A patch of very high chlorophyll (2 to >20 $\mu\text{g/L}$) with the optical characteristics of *K. brevis* is present alongshore from Sabine Pass to Galveston Bay. However, elevated chlorophyll in this region is most likely due to the resuspension of benthic chlorophyll and sediments along the coast.

Forecasts:

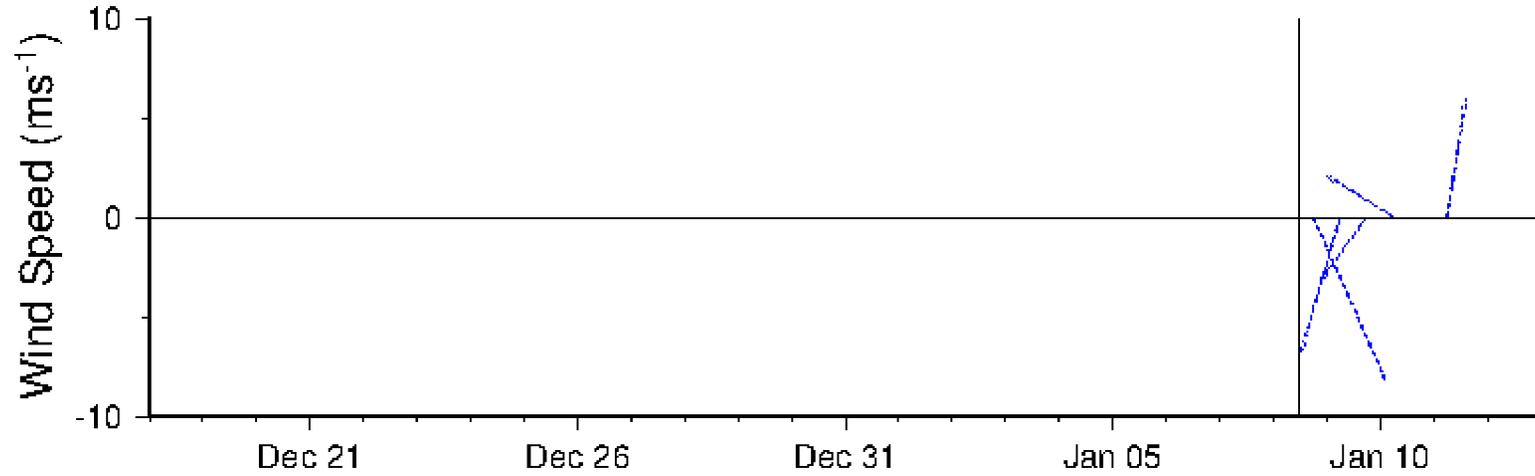
Forecast models based on predicted near-surface currents indicate a potential maximum transport of 60 km south along the coast from Port Aransas from January 6-11.

Keeney, Kavanaugh

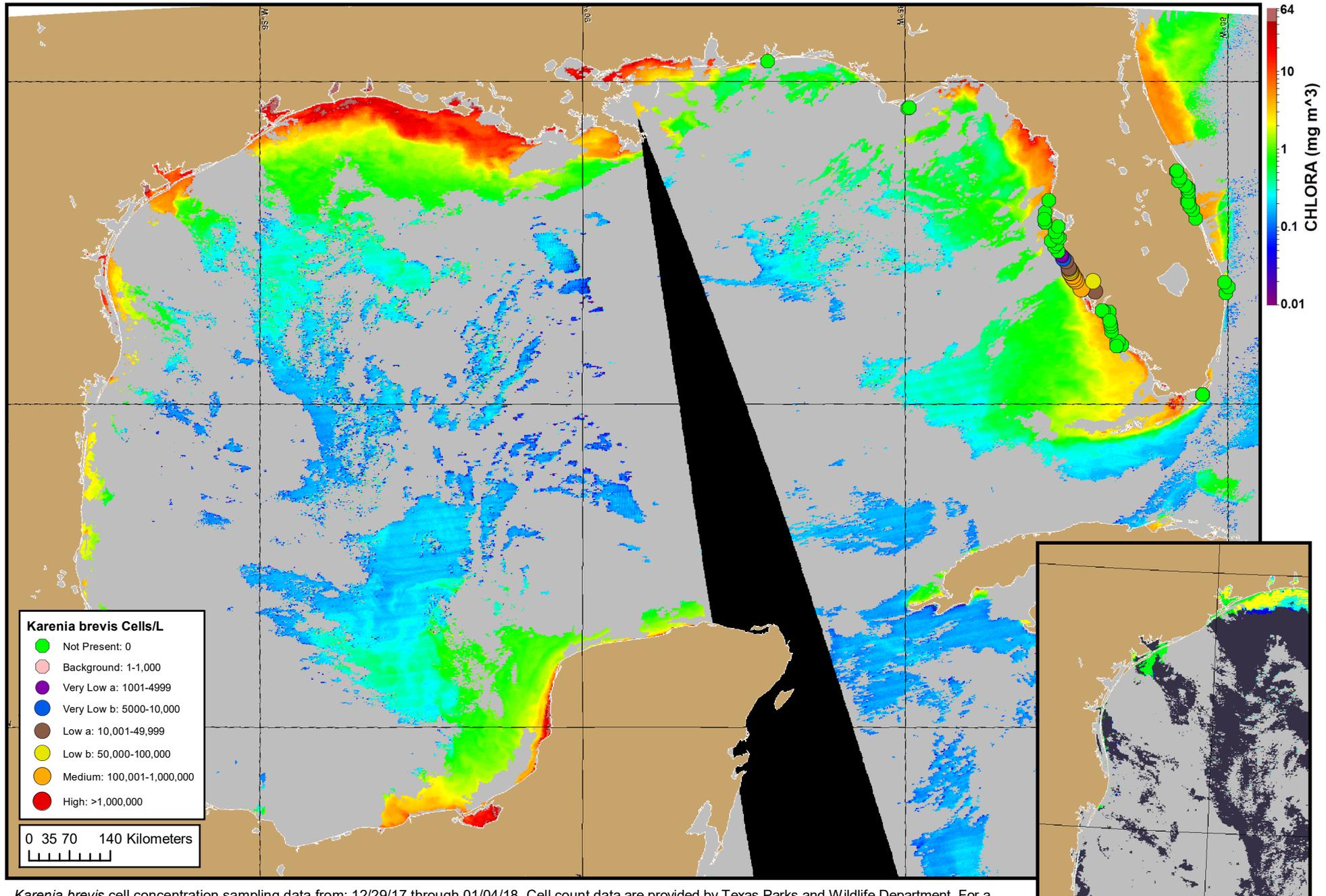
Karenia brevis cell concentration sampling data from: 12/29/17 through 01/04/18. Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide: https://tidesandcurrents.noaa.gov/hab/hab_publication/GOMX_HAB_Bulletin_Guide.pdf. 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 satellite chlorophyll image (01/06/18) with possible *K. brevis* HAB areas shown by red polygon(s).

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).