



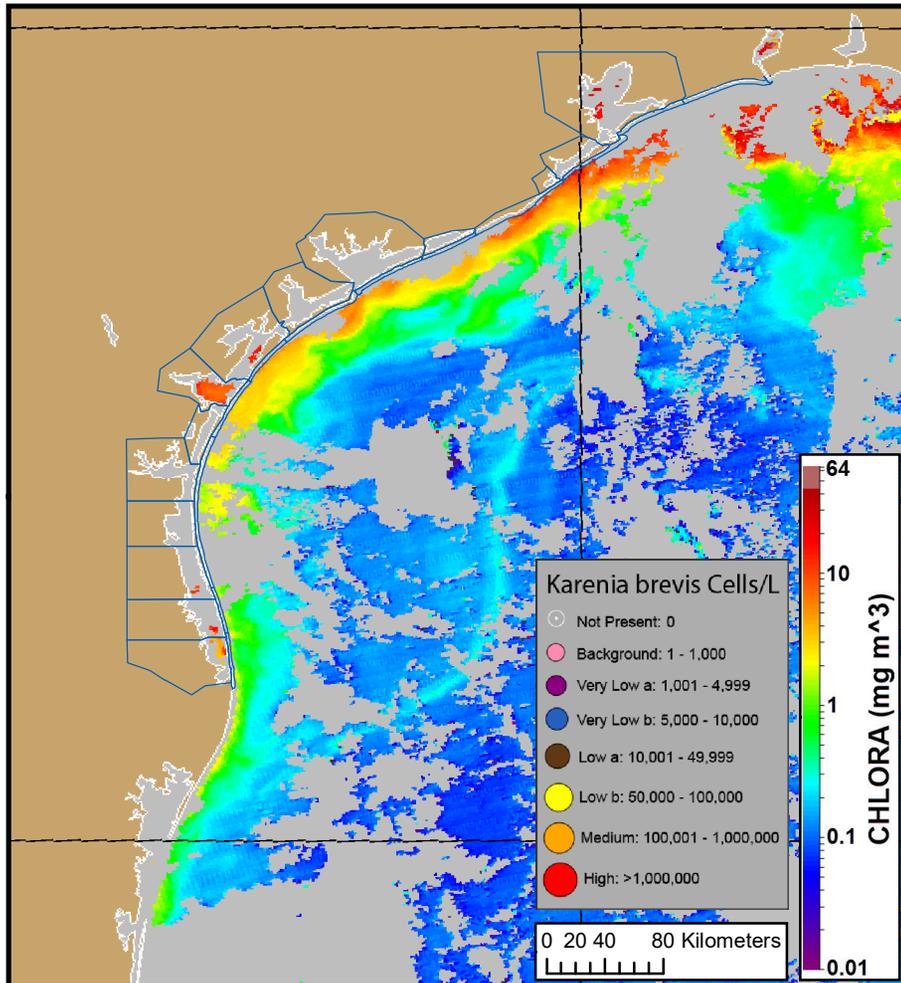
# Gulf of Mexico Harmful Algal Bloom Bulletin

Monday, September 16, 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>.



## Conditions Report

Not present to very low 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, 9/14) shows very high chlorophyll (2 to >20  $\mu\text{g/L}$ ) with some of the optical characteristics of *K. brevis* is present alongshore the Texas coast from Sabine Pass to the Rio Grande. This includes the Surfside Beach region where up to 'very low' *K. brevis* concentrations have been detected. Further sampling of this region is recommended.

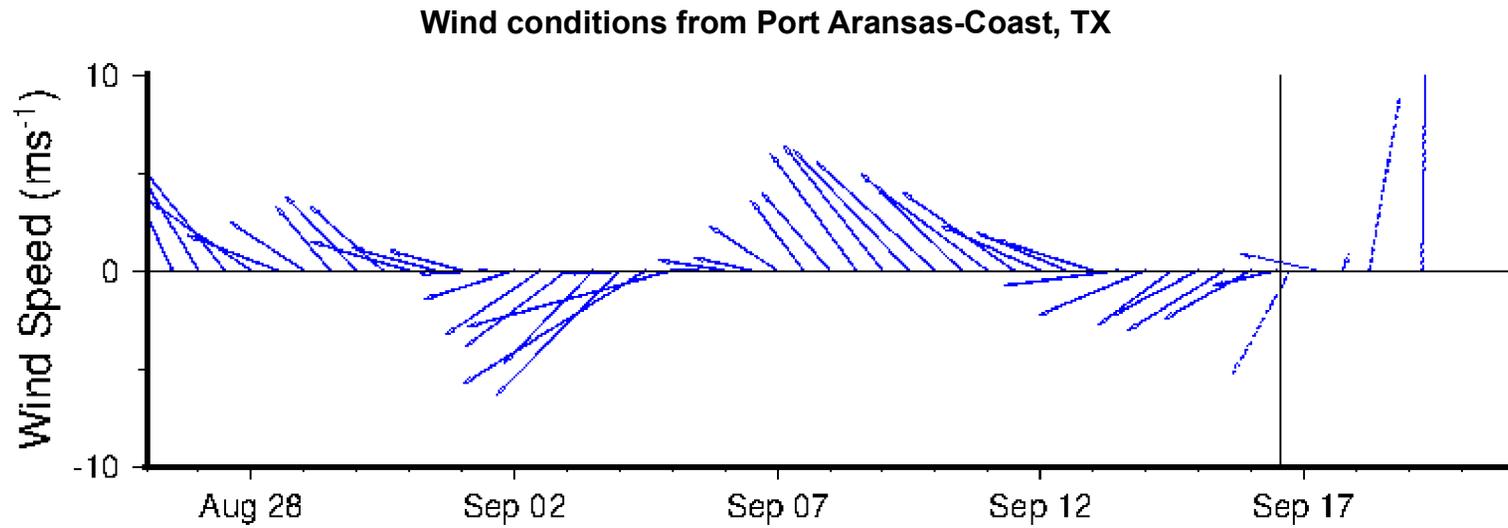
### Forecasts:

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 120 km south along the coast from Port Aransas from September 14-19.

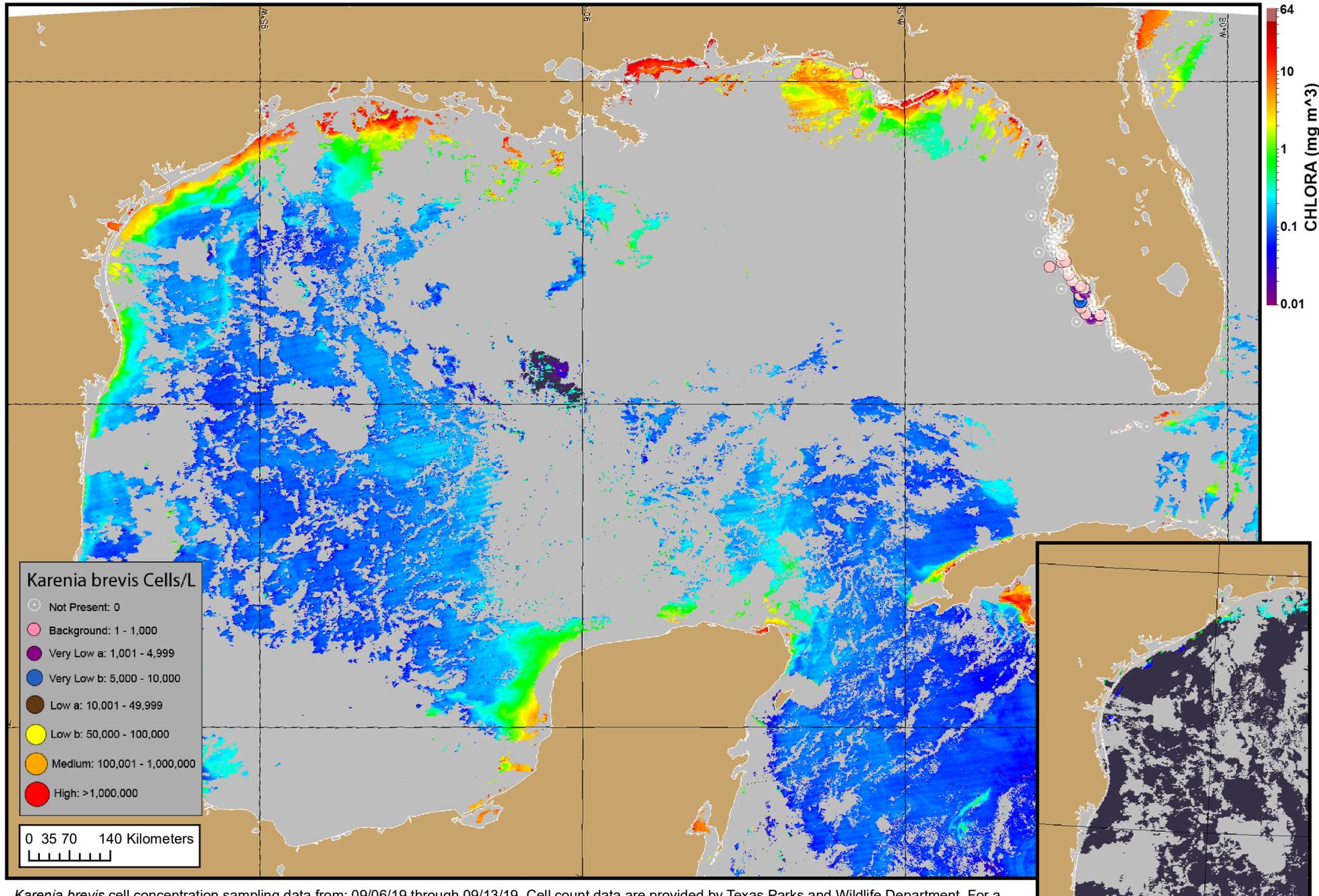
Davis, Jima

*Karenia brevis* cell concentration sampling data from: 09/06/19 through 09/13/19. 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](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 (09/14/19) with possible *K. brevis* HAB areas shown by red polygon(s).



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 (09/14/19).