



Gulf of Mexico Harmful Algal Bloom Bulletin

29 January 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: January 25, 2007

Conditions Report

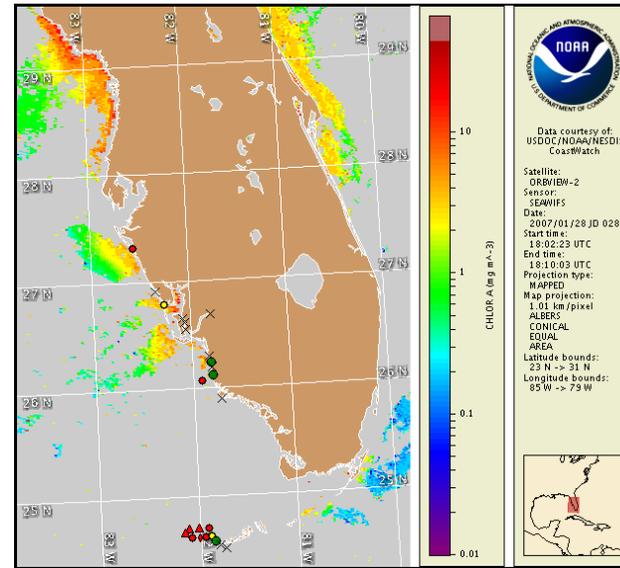
A harmful algal bloom has been identified in patches from Sarasota to central Collier Counties and north of the Lower Florida Keys in Monroe County. In Sarasota, northern Lee and central Collier Counties, patchy very low impacts are possible through Wednesday followed by patchy moderate impacts possible on Thursday. In Charlotte County, patchy low impacts are possible through Tuesday followed by patchy high impacts possible on Wednesday and Thursday. No impacts are expected from southern Lee to northern Collier Counties through Thursday. On the gulfside Lower Keys, patchy moderate impacts possible in the offshore region today through Thursday.

Analysis

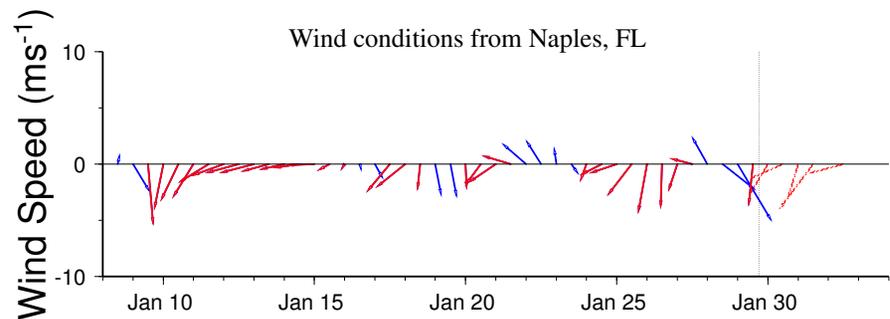
A harmful algal bloom persists from Sarasota to central Collier County and north to northwest of the Lower Florida Keys in Monroe County. *K. brevis* concentrations have primarily decreased along the coast over the past 10 days (1/25; FWRI). Recent imagery has been obscured by clouds, limiting analysis. The band of elevated chlorophyll levels are generally less than 3 $\mu\text{g/L}$ along the coast. Results of a wind transport model indicate that the bloom may have migrated south (10-15km) since last bulletin. No reports of fish kills and/or respiratory irritation have been received over the past few days. Variable winds may maintain bloom location along the coast.

Present bloom extent in the gulfside Lower Keys region is also limited due to recent cloudy imagery. Primarily westerly transport of *K. brevis* is possible through Thursday.

~Fenstermacher, Urizar



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit <http://research.myfwc.com>. Cell concentration sampling data from January 19-25 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



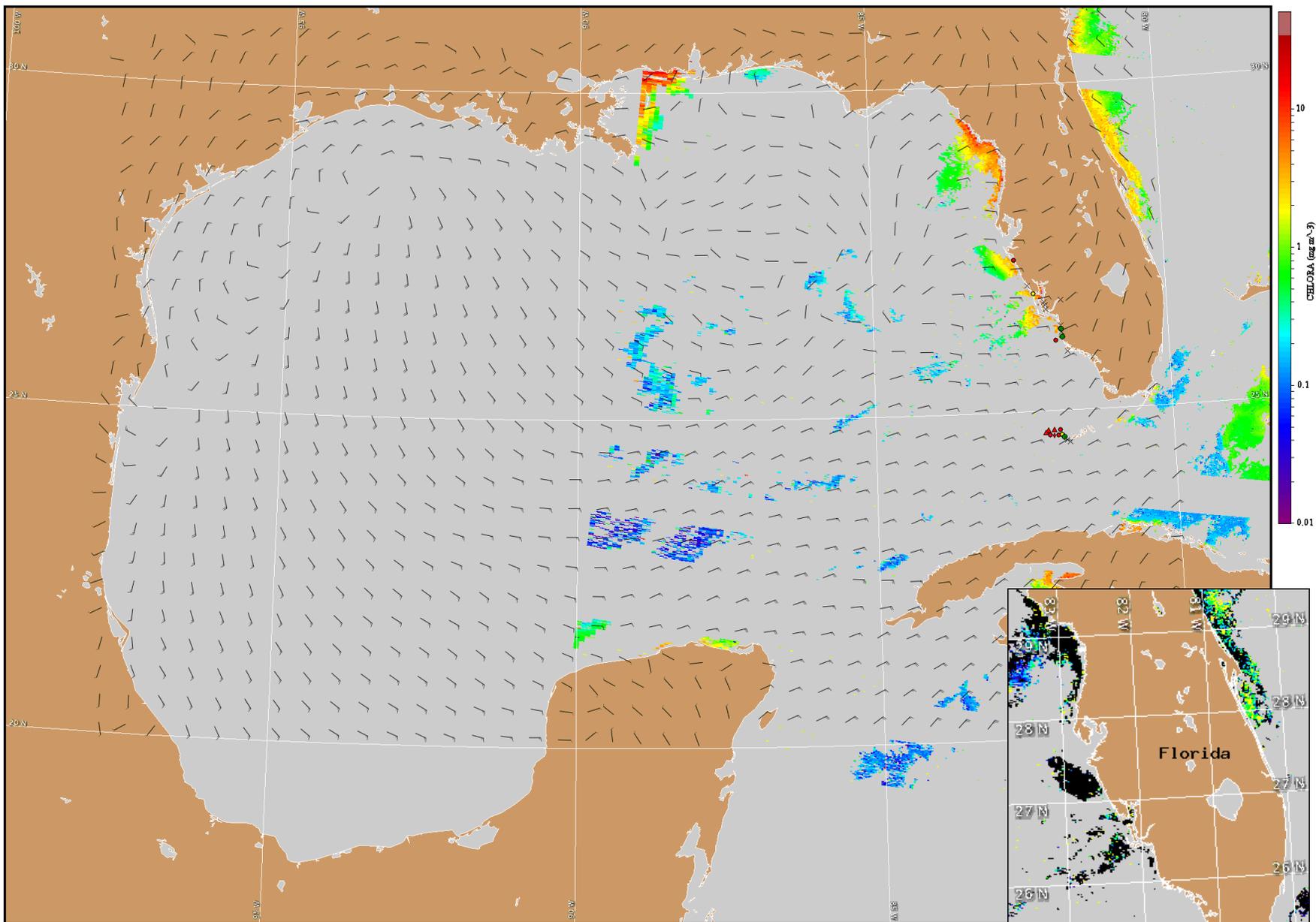
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Strong northerlies (20 knts; 10 m/s) today followed by northeasterlies Tuesday (5-10 knts; 3-5 m/s). Strong east to southeasterlies on Wednesday and southerlies on Thursday (15-20 knts; 8-10 m/s).

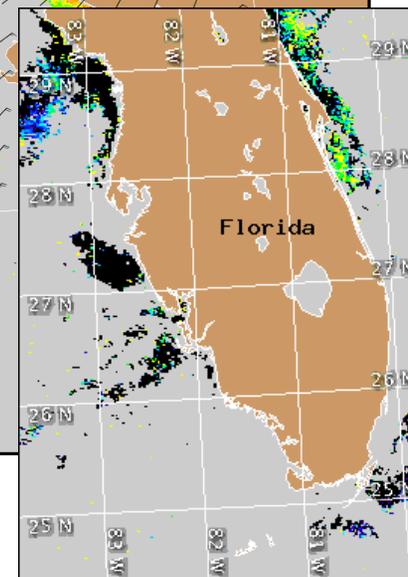
Lower Keys: Strong northerlies (15-20 knts; 8-10 m/s) today followed by northeasterlies Tuesday (10-15 knts; 5-8 m/s). Easterlies on Wednesday and becoming southeasterlies on Thursday (15 knts; 8 m/s).

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for January 30, 2007 12Z with cell concentration sampling data from January 19-25 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

