Not present to high concentrations of *Karenia brevis* (commonly known as Florida red tide) are present along- and offshore portions of southwest Florida, and not present in the Florida Keys. *K. brevis* concentrations are patchy in nature and levels of respiratory irritation will vary locally based upon nearby bloom concentrations, ocean currents, and wind speed and direction.

Health information, from the Florida Department of Health and other agencies, is available at https://tidesandcurrents.noaa.gov/hab/gomx_health.html. For recent, local observations and data check Mote Marine Laboratory Daily Beach Conditions (http://visitbeaches.org) and the Florida Fish and Wildlife Conservation Commission Red Tide Status (http://myfwc.com/redtidestatus).

Recently Reported Impacts (Listed by County):

**Respiratory irritation:** Lee and Collier  
**Dead fish:** Lee and Collier  
**Discolored water:** None

**Definition of respiratory irritation levels.**

<table>
<thead>
<tr>
<th>RESPIRATORY IRRITATION LEVEL</th>
<th>NONE</th>
<th>CHRONIC RESPIRATORY CONDITION</th>
<th>SENSITIVE TO RED TIDE</th>
<th>GENERAL PUBLIC (MILD SYMPTOMS)</th>
<th>GENERAL PUBLIC (INTENSE SYMPTOMS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very low</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moderate</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
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<tr>
<td>High</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
The table lists the highest level of potential respiratory irritation forecast. \textit{K. brevis} concentrations are patchy in nature and levels of respiratory irritation will vary locally based upon nearby bloom concentrations, ocean currents, and wind speed and direction.

Cells are marked ‘none’ if \textit{K. brevis} was detected, but no respiratory irritation is forecasted in the region. Cells are blank if no \textit{K. brevis} has been detected in the region.
The table lists the highest level of potential respiratory irritation forecast. *K. brevis* concentrations are patchy in nature and levels of respiratory irritation will vary locally based upon nearby bloom concentrations, ocean currents, and wind speed and direction.

Cells are marked 'none' if *K. brevis* was detected, but no respiratory irritation is forecasted in the region. Cells are blank if no *K. brevis* has been detected in the region.

<table>
<thead>
<tr>
<th>State Name</th>
<th>County Region</th>
<th>Thu 05/03</th>
<th>Fri 05/04</th>
<th>Sat 05/05</th>
<th>Sun 05/06</th>
<th>Mon 05/07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central LEE County-Bay Regions</td>
<td>moderate</td>
<td>moderate</td>
<td>moderate</td>
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<tr>
<td>Southern LEE County-Gulf Coast</td>
<td>low</td>
<td>low</td>
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<tr>
<td>Southern LEE County-Bay Regions</td>
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<tr>
<td>Northern COLLIER County-Gulf Coast</td>
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<td>low</td>
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<tr>
<td>Northern COLLIER County-Bay Regions</td>
<td>low</td>
<td>low</td>
<td>low</td>
<td>high</td>
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<tr>
<td>Central COLLIER County-Gulf Coast</td>
<td>low</td>
<td>low</td>
<td>low</td>
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<tr>
<td>Central COLLIER County-Bay Regions</td>
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<td>low</td>
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<tr>
<td>Southern COLLIER County-Gulf Coast</td>
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<td>low</td>
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<tr>
<td>Northern MONROE County-Gulf Coast</td>
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<tr>
<td>Southern MONROE County-Gulf Coast</td>
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<tr>
<td>UPPER KEYS-Oceanside</td>
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<tr>
<td>UPPER KEYS and FLORIDA BAY-Gulfside</td>
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<tr>
<td>MIDDLE KEYS-Oceanside</td>
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<tr>
<td>MIDDLE KEYS-Gulfside</td>
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<tr>
<td>LOWER KEYS-Oceanside</td>
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<tr>
<td>LOWER KEYS-Gulfside</td>
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</tr>
</tbody>
</table>
Wind conditions from Naples, FL

Wind conditions from Venice Pier, FL

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 https://go.usa.gov/xnx4y.
K. brevis Cell Concentrations:
Range: Not Present through High
Date: 04/23-05/01
Source: FWRI, MML, SCHD, CCPCD

Imagery:
Recent ensemble imagery (MODIS Aqua, 5/1) is partially obscured by clouds along the coast of southwest Florida, limiting analysis. A patch of elevated chlorophyll (2-10 µg/L) with some of the optical characteristics of K. brevis is visible west of Pavilion Key in northern Monroe County. In imagery from 4/29 (MODIS Aqua), elevated to very high chlorophyll (2 to >20 µg/L) with the optical characteristics of K. brevis was visible stretching from southern Lee to central Collier County.

Forecasts:
Variable forecasted winds may minimize the transport of K. brevis concentrations today through Monday, May 7.

Kavanaugh, Keeney
Karenia brevis cell concentration sampling data from: 04/23/18 through 05/01/18. Cell count data are provided by Florida FWC Fish and Wildlife Research Institute. 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 Florida FWC Fish and Wildlife Research Institute: http://myfwc.com/REDTIDESTATUS.

Karenia brevis optical characteristics shown in yellow (see p. 4 analysis for interpretation).