

## Red Tide Status - Florida Southwest Coast November 10, 2016

**Present Status:** A bloom of the Florida red tide organism, *Karenia brevis*, persists in Southwest Florida from Pinellas to Collier County.

*Karenia brevis* was observed in very low to low concentrations in seven samples collected from Pinellas County; very low to medium concentrations in five samples collected from Manatee County; background to high concentrations in twenty-eight samples collected from Sarasota County; low to medium concentrations in four samples collected from Charlotte County; background to low concentrations in twelve samples collected from Lee County; and background to medium concentrations in seven samples collected from Collier County.

Additional samples collected throughout Southwest Florida over the past week did not contain *K. brevis*.

A fish kill was reported offshore of Wiggins Pass (Collier County) on 11/07. Slight respiratory irritation was reported on 11/10 at Nokomis Beach, Siesta Key, and Venice North Jetty (Sarasota County). Forecasts for Southwest Florida by the [USF-FWC Collaboration for Prediction of Red Tides](#) show net southern, offshore movement of surface waters, and southern, onshore movement of subsurface waters between southern Pinellas and northern Monroe counties over the next 3 days.

County	Date Collected	Alongshore Inshore	Offshore	Site Location	Collector
<b>Pinellas</b>					
-	11/07	not present	-	Clearwater Beach Pier 60	PC
-	11/07	not present	-	Clearwater Pass	FWRI
-	11/07	not present	-	Redington Pier	FWRI
-	11/07	LOW	-	FWRI Peninsula; SE tip of (Bayboro Harbor)	FWRI
-	11/07	LOW	-	FWRI Peninsula; SE tip of (Bayboro Harbor)	FWRI
-	11/06	-	not present	Treasure Island; 2.4 mi SW of	PC
-	11/06	-	not present	St. Pete Beach; 6.5 mi W of	PC
-	11/08	VERY LOW	-	Conception Key; NE of (Lower Tampa Bay)	FDACS
-	11/08	VERY LOW	-	Mullet Key Bayou; N of (Bunces Pass)	FDACS
-	11/08	VERY LOW	-	North Skyway Rest Area; N of (Bunces Pass)	FDACS
-	11/08	VERY LOW	-	Bunces Pass; mouth of	FDACS
-	11/07	VERY LOW	-	Mullet Key; Gulf Pier	FWRI
<b>Hillsborough</b>					
-	11/03	not present	-	Hillsborough River	FWRI-MMPL
-	11/05	not present	-	Viper Drive; E of (Hillsborough Bay)	PC
-	11/05	not present	-	Golf Course Avenue; E of (Hillsborough Bay)	PC
<b>Manatee</b>					

-	11/07	MEDIUM	-	Skyway Fishing Pier; South (Lower Tampa Bay)	FWRI
-	11/07	MEDIUM	-	Fletcher Point (Lower Tampa Bay)	FWRI
-	11/07	MEDIUM	-	Anna Maria Island Rod & Reel Pier (Lower Tampa Bay)	FWRI
-	11/07	VERY LOW	-	Palma Sola Bay Bridge	FWRI
-	11/07	MEDIUM	-	Longboat Pass Boat Ramp (Sarasota Bay)	FWRI
-	11/04	not present	-	Bayshore Gardens	FWRI-MMPL
<b>Sarasota</b>					
-	11/03	VERY LOW	-	Longboat Key Beach; E of	PC
-	11/07	LOW	-	Longboat Key Beach	SCDH
-	11/03	MEDIUM	-	New Pass Dock (Sarasota Bay)	MML
-	11/04	MEDIUM	-	New Pass Dock (Sarasota Bay)	MML
-	11/07	MEDIUM	-	New Pass Dock (Sarasota Bay)	MML
-	11/08	MEDIUM	-	New Pass Dock (Sarasota Bay)	MML
-	11/09	MEDIUM	-	New Pass Dock (Sarasota Bay)	MML
-	11/09	HIGH	-	Bay Dock (Sarasota Bay)	MML
-	11/08	HIGH	-	Bay Dock (Sarasota Bay)	MML
-	11/07	HIGH	-	Bay Dock (Sarasota Bay)	MML
-	11/03	MEDIUM	-	Bay Dock (Sarasota Bay)	MML
-	11/04	LOW	-	Bay Dock (Sarasota Bay)	MML
-	11/03	LOW	-	Bird Key Park; N of (Sarasota Bay)	PC
-	11/07	LOW	-	Ringling Causeway	SCDH
-	11/07	LOW	-	North Lido Beach	SCDH
-	11/07	MEDIUM	-	Lido Beach Casino	SCDH
-	11/07	MEDIUM	-	South Lido Park	SCDH
-	11/07	LOW	-	Siesta Beach	SCDH
-	11/07	LOW	-	Turtle Beach	SCDH
-	11/07	MEDIUM	-	Nokomis Beach	SCDH
-	11/07	MEDIUM	-	Venice Beach	SCDH
-	11/07	LOW	-	Service Club Park	SCDH
-	11/07	LOW	-	Venice Fishing Pier	SCDH
-	11/07	BACKGROUND	-	Brohard Beach	SCDH
-	11/07	VERY LOW	-	Caspersen Beach	SCDH
-	11/07	MEDIUM	-	Manasota Beach	SCDH
-	11/07	MEDIUM	-	Blind Pass Beach	SCDH

-	11/07	MEDIUM	-	Blind Pass Beach; E of (Lemon Bay)	FDACS
<b>Charlotte</b>					
-	11/07	LOW	-	Tom Adams Bridge; S of (Lemon Bay)	FDACS
-	11/07	not present	-	Hog Island; S of (Charlotte Harbor)	FDACS
-	11/07	not present	-	Punta Gorda Boat Ramp (Charlotte Harbor)	FDEP
-	11/07	MEDIUM	-	Stump Pass (Lemon Bay)	FDACS
-	11/07	MEDIUM	-	Garfield Court; SW of (Placida Harbor)	FDACS
-	11/07	MEDIUM	-	Gasparilla Pass	FDACS
<b>Lee</b>					
-	11/07	BACKGROUND	-	Burnt Store Marina (Charlotte Harbor)	FDEP
-	11/07	VERY LOW	-	Hemp Key; S of (Pine Island Sound)	FDACS
-	11/07	VERY LOW	-	Cork Island; W of (Pine Island Sound)	FDACS
-	11/07	VERY LOW	-	Redfish Pass; 1.8 mi E of (Pine Island Sound)	FDACS
-	11/07	VERY LOW	-	Regla Island; W of (Pine Island Sound)	FDACS
-	11/07	BACKGROUND	-	Buck Key; 1.9 mi NE of (Pine Island Sound)	FDACS
-	11/09	LOW	-	South Seas Plantation Entrance	LCEL
-	11/05	not present	-	Sanibel Causeway; S of (San Carlos Bay)	USCGA
-	11/07	VERY LOW	-	Matanzas Pass (Estero Bay)	EBAP
-	11/07	VERY LOW	-	Mound House Dock (Estero Bay)	EBAP
-	11/07	not present	-	Estero River; upstream	EBAP
-	11/07	not present	-	Estero River; mouth of (Estero Bay)	EBAP
-	11/07	not present	-	Coon Key; N of (Estero Bay)	EBAP
-	11/09	BACKGROUND	-	Tarpon Road Beach	LCEL
-	11/05	-	not present	Fort Myers Beach; 4 mi W of	USCGA
-	11/07	VERY LOW	-	Carl Johnson Park Boat Ramp (Estero Bay)	EBAP
-	11/07	LOW	-	Pelican Bay Nature Park Pier (Estero Bay)	EBAP
<b>Collier</b>					
-	11/03	not present	-	Barefoot Beach State Preserve	CCPCD

-	11/07	VERY LOW	-	Barefoot Beach State Preserve	CCHD
-	11/07	not present	-	Vanderbilt Beach	CCHD
-	11/03	BACKGROUND	-	Vanderbilt Beach	CCPCD
-	11/03	BACKGROUND	-	Seagate	CCPCD
-	11/07	not present	-	Seagate	CCHD
-	11/07	not present	-	Naples Pier	CCHD
-	11/03	VERY LOW	-	Naples Pier	CCPCD
-	11/08	not present	-	951 Boat Ramp; NE side	FWRI-MMPL
-	11/07	MEDIUM	-	South Marco Beach	CCHD
-	11/03	VERY LOW	-	South Marco Beach	CCPCD
-	11/05	VERY LOW	-	Tripod Key; SE side (Gullivan Bay)	FWRI-MMPL
<b>Monroe</b>					
-	11/05	-	not present	Sawyer Key; 1.7 mi N of	MML
-	11/06	not present	-	Sawyer Key; N of	USCGA
-	11/05	-	not present	Marvin Key; 3.9 mi N of	MML
-	11/05	-	not present	West Harbor Key; 6.6 mi N of	MML
-	11/05	-	not present	Key West; 12 mi N of	MML
-	11/05	-	not present	Smith Shoals	MML
-	11/05	-	not present	Key West; 10 mi NW of	MML
-	11/05	-	not present	Key West; 8.6 mi NW of	MML
-	11/05	-	not present	Kemp Channel Bridge; 1.6 mi SE of	MML
-	11/05	-	not present	Key West; 5.5 mi NW of	MML
-	11/06	not present	-	Lois Key; SE of	USCGA
-	11/05	-	not present	Key West; 3 mi NW of	MML
-	11/05	not present	-	Key West Harbor	MML
-	11/05	-	not present	Key West; 2.3 mi S of	MML
-	11/05	-	not present	Key West; 5.5 mi S of	MML

**Note:** CCHD = Collier County Health Department; CCPCD = Collier County Pollution Control and Prevention Department; EBAP = Estero Bay Aquatic Preserve; FDACS = Florida Department of Agriculture and Consumer Services; FDEP = Florida Department of Environmental Protection; FWRI =; FWC-Fish and Wildlife Research Institute; FWRI-MMPL = FWRI-Marine Mammal Path Laboratory; LCEL = Lee County Environmental Lab; MML = Mote Marine Laboratory; PC = Private citizen - Volunteer Program; SCDH = Sarasota County Department of Health; USCGA = US Coast Guard Auxiliary.

## Key for Results

Description	<i>Karenia brevis</i> abundance	Possible effects ( <i>Karenia brevis</i> only)
NOT PRESENT-BACKGROUND	0 - 1,000 cells/L	no effects anticipated
VERY LOW	> 1,000 - 10,000 cells/L	possible respiratory irritation; shellfish harvesting closures when cell abundance equals or exceeds 5,000 cells/L
LOW	> 10,000 - 100,000 cells/L	respiratory irritation; shellfish harvesting closures; possible fish kills; probable detection of chlorophyll by satellites at upper range of cell abundance
MEDIUM	> 100,000 - 1,000,000 cells/L	respiratory irritation; shellfish harvesting closures; probable fish kills; detection of surface chlorophyll by satellites
HIGH	> 1,000,000 cells/L	as above, plus water discoloration

## Red Tide-Related Hotlines and Information Sources

### Latest Red Tide Status Report by Phone

Call (866) 300-9399 at anytime from anywhere in Florida toll-free to hear a recording about red tide conditions throughout the state. FWRI updates the recording each Friday by 5 p.m. Callers outside of Florida can dial (727) 552-2448. Standard calling charges apply.

## Fish and Wildlife Hotlines and Reporting Contacts

### FWRI Fish Kill Hotline

The FWC's Fish and Wildlife Research Institute (FWRI) maintains this hotline through a federally funded project to survey fish-related diseases and mortalities.

Call (800) 636-0511 (toll-free) to report fish kills, diseased fish, or fish with other abnormalities. Leave a detailed report and contact information on the recorded message. A biologist will contact the caller, usually the following workday, if more information is needed. Please do not call the FWRI Fish Kill Hotline to request dead fish cleanup; local municipalities are responsible for dead fish cleanup, usually only on public beaches.

[FWC Wildlife Alert Hotline](tel:(888)404-3922): (888) 404-3922 (toll-free)

If you find a dead, sick, or injured manatee or sea turtle, or you would like to report a wildlife law violation, please call FWC's 24-hour Wildlife Alert Number.

## Hotlines and Reporting Sites for Effects on Humans

**Florida Poison Information Center**: (800) 222-1222 (toll-free)

If you would like to report health issues related to exposure to red tide, please call the Florida Poison Information Center at 800-222-1222. Additional information on the health effects of Florida red tide can be found on the [Florida Department of Health](http://www.floridahealth.gov) website

## Information Sources

**Mote Marine Laboratory's [Beach Conditions Report](#)** provides up-to-date information about the effects of red tide on Florida Gulf coast beaches, including reports of dead fish, respiratory irritation among beachgoers, water color, and wind direction. The site also provides information on red drift algae and rip currents.

At the **University of South Florida (USF) College Of Marine Science**, the [Collaboration for the Prediction of Red Tides](#) uses [forecast models](#) to track and predict harmful algal blooms (HABs) in the southeastern United States and reports current conditions. Experimental products include *Karenia* flag maps of bloom locations and 3.5-day HAB trajectory forecasts. The center is a cooperative venture with the FWC.

**The National Oceanic and Atmospheric Administration (NOAA)** uses satellite imagery, field observations, and buoy data to assess harmful algal blooms in the Gulf of Mexico. A report of conditions and additional information appears on the [NOAA Harmful Algal Bloom Operational Forecast System](#) Web site.

**The Red Tide Alliance** provides kits, brochures, and other information to businesses affected by harmful algal blooms, as well as links to other sources, at [RedTideOnline.com](#). [Solutions To Avoid Red Tide \(START\)](#), a nonprofit group committed to scientific research and educational outreach on the impacts of Harmful Algae Blooms, maintains the site.

[Outreach and social media products](#) about Florida red tide are available for viewing and download.

## Shellfish Harvesting Closures

To protect public health, the Fish and Wildlife Research Institute's Harmful Algal Bloom (HAB) group closely monitors the status of *K. brevis* on Florida's coasts, providing technical support to the Florida Department of Agriculture and Consumer Services (FDACS), the agency that regulates approved shellfish harvesting areas. Before harvesting in Florida waters, determine open or closed status by visiting the Department's [Division of Aquaculture](#) Web site or calling a field office.

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