

Red Tide Status - Florida Southwest Coast November 04, 2016

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

Karenia brevis was observed in very low to low concentrations in eight samples collected from Pinellas County; very low to medium concentrations in eleven samples collected from Manatee County; low to high concentrations in twenty-eight samples collected from Sarasota County; very low to medium concentrations in five samples collected from Charlotte County; background to medium concentrations in twenty-one samples collected from Lee County; and background to low concentrations in six samples collected from Collier County. No samples were collected over the past week from Monroe County.

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

Fish kills were reported offshore of Sanibel Island on 11/02 (Lee County) and along Seagate and Tigertail Beaches on 10/28 (Collier County). Respiratory irritation has not been reported along southwest Florida over the past week. 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
Pinellas					
-	10/31	not present	-	Honeymoon Island Beach	USCGA
-	11/01	not present	-	Clearwater Beach Pier 60	PC
-	10/31	not present	-	Clearwater Pass	FWRI
-	11/02	not present	-	Indian Rocks Beach	FWRI
-	11/02	not present	-	Bay Pine Boulevard Canal	FWRI
-	10/31	not present	-	Redington Pier	FWRI
-	11/02	VERY LOW	-	Johns Pass	FWRI
-	10/31	LOW	-	FWRI Peninsula; SE tip of (Bayboro Harbor)	FWRI
-	10/31	VERY LOW	-	FWRI Peninsula; SE tip of (Bayboro Harbor)	FWRI
-	11/01	LOW	-	Conception Key; NE of (Lower Tampa Bay)	FDACS
-	11/01	VERY LOW	-	Mullet Key Bayou; N of (Bunces Pass)	FDACS
-	11/01	LOW	-	North Skyway Rest Area; N of (Bunces Pass)	FDACS
-	11/01	LOW	-	Bunces Pass; mouth of	FDACS
-	10/31	LOW	-	Mullet Key; Gulf Pier	FWRI
Hillsborough					
-	10/29	not present	-	Viper Drive; E of (Hillsborough Bay)	PC

-	10/29	not present	-	Golf Course Avenue; E of (Hillsborough Bay)	PC
Manatee					
-	11/02	MEDIUM	-	Little Redfish Creek; 1.1 mi NW of (Lower Tampa Bay)	FDACS
-	10/31	MEDIUM	-	Skyway Fishing Pier; South (Lower Tampa Bay)	FWRI
-	11/02	MEDIUM	-	Joe Island; NW of (Lower Tampa Bay)	FDACS
-	11/02	MEDIUM	-	South Skyway Causeway; NE end of (Lower Tampa Bay)	FDACS
-	11/02	MEDIUM	-	South Skyway Rest Area; NW of (Lower Tampa Bay)	FDACS
-	10/31	MEDIUM	-	Fletcher Point (Lower Tampa Bay)	FWRI
-	10/31	MEDIUM	-	Anna Maria Island Rod & Reel Pier (Lower Tampa Bay)	FWRI
-	11/02	MEDIUM	-	School Key; NE of (Lower Tampa Bay)	FDACS
-	11/02	MEDIUM	-	Mead Point (Lower Tampa Bay)	FDACS
-	10/31	VERY LOW	-	Palma Sola Bay Bridge	FWRI
-	10/31	MEDIUM	-	Longboat Pass Boat Ramp (Sarasota Bay)	FWRI
Sarasota					
-	10/31	MEDIUM	-	Longboat Key Beach	SCDH
-	10/27	MEDIUM	-	New Pass Dock (Sarasota Bay)	MML
-	10/28	MEDIUM	-	New Pass Dock (Sarasota Bay)	MML
-	10/31	MEDIUM	-	New Pass Dock (Sarasota Bay)	MML
-	11/01	MEDIUM	-	New Pass Dock (Sarasota Bay)	MML
-	11/03	MEDIUM	-	New Pass Dock (Sarasota Bay)	MML
-	11/02	MEDIUM	-	New Pass Dock (Sarasota Bay)	MML
-	11/02	HIGH	-	Bay Dock (Sarasota Bay)	MML
-	11/03	MEDIUM	-	Bay Dock (Sarasota Bay)	MML
-	10/31	HIGH	-	Bay Dock (Sarasota Bay)	MML
-	11/01	HIGH	-	Bay Dock (Sarasota Bay)	MML
-	10/28	MEDIUM	-	Bay Dock (Sarasota Bay)	MML
-	10/27	MEDIUM	-	Bay Dock (Sarasota Bay)	MML
-	10/31	LOW	-	Ringling Causeway	SCDH
-	10/31	LOW	-	North Lido Beach	SCDH

-	10/31	LOW	-	Lido Beach Casino	SCDH
-	10/31	MEDIUM	-	South Lido Park	SCDH
-	10/31	LOW	-	Siesta Beach	SCDH
-	10/31	MEDIUM	-	Turtle Beach	SCDH
-	10/31	LOW	-	Nokomis Beach	SCDH
-	10/31	MEDIUM	-	North Jetty	SCDH
-	10/31	MEDIUM	-	Venice Beach	SCDH
-	10/31	LOW	-	Service Club Park	SCDH
-	10/31	MEDIUM	-	Venice Fishing Pier	SCDH
-	10/31	LOW	-	Brohard Beach	SCDH
-	10/31	LOW	-	Caspersen Beach	SCDH
-	10/31	MEDIUM	-	Manasota Beach	SCDH
-	10/31	MEDIUM	-	Blind Pass Beach	SCDH
Charlotte					
-	11/02	LOW	-	Englewood Beach	ChCPRCR
-	11/01	not present	-	Hog Island; S of (Charlotte Harbor)	FDACS
-	11/01	LOW	-	Catfish Creek; mouth of (Gasparilla Sound)	FDACS
-	11/01	MEDIUM	-	Gasparilla Pass	FDACS
-	11/01	VERY LOW	-	Sandfly Key; NE of (Gasparilla Sound)	FDACS
-	11/01	LOW	-	Bull Key; NW of (Bull Bay)	FDACS
Lee					
-	11/01	MEDIUM	-	Cayo Pelau; 2 mi S of (Charlotte Harbor)	FDACS
-	11/01	MEDIUM	-	Boca Grande Pass	FDACS
-	10/31	MEDIUM	-	Boca Grande Pass	FDACS
-	10/31	LOW	-	Little Bokeelia Island; N of (Charlotte Harbor)	FDACS
-	11/02	LOW	-	Jug Creek Point; E of (Matlacha Pass)	FDACS
-	10/31	MEDIUM	-	Mondongo Island; W of (Pine Island Sound)	FDACS
-	10/31	MEDIUM	-	Captiva Pass	FDACS
-	10/31	LOW	-	Captiva Rocks; SW of (Pine Island Sound)	FDACS
-	10/31	MEDIUM	-	Hemp Key; S of (Pine Island Sound)	FDACS
-	11/02	not present	-	McCardle Island; SW of (Matlacha Pass)	FDACS
-	10/31	MEDIUM	-	Cork Island; W of (Pine Island Sound)	FDACS
-	10/31	LOW	-	Redfish Pass; 1.8 mi E of (Pine Island Sound)	FDACS

-	10/31	MEDIUM	-	Redfish Pass (Pine Island Sound)	FDACS
-	10/31	BACKGROUND	-	Regla Island; W of (Pine Island Sound)	FDACS
-	10/31	VERY LOW	-	Buck Key; 1.9 mi NE of (Pine Island Sound)	FDACS
-	11/02	not present	-	South Seas Plantation Entrance	LCEL
-	11/02	LOW	-	Merwin Key; W of (San Carlos Bay)	FDACS
-	10/31	not present	-	York Island; W of (Pine Island Sound)	FDACS
-	10/31	VERY LOW	-	Buck Key; S of (Blind Pass)	FDACS
-	11/02	VERY LOW	-	Lynn Hall Park	LCEL
-	11/02	LOW	-	Lighthouse Beach	LCEL
-	11/01	not present	-	Andre-Mar Drive; canal N of	FWC-MP
-	11/02	LOW	-	Tarpon Road Beach	LCEL
-	11/02	LOW	-	Lovers Key State Park	LCEL
-	11/02	VERY LOW	-	Bonita Beach Park	LCEL
Collier					
-	10/31	LOW	-	Barefoot Beach State Preserve	CCHD
-	10/27	not present	-	Barefoot Beach State Preserve	CCHD
-	10/27	not present	-	Vanderbilt Beach	CCHD
-	10/31	LOW	-	Vanderbilt Beach	CCHD
-	10/31	VERY LOW	-	Seagate	CCHD
-	10/27	not present	-	Seagate	CCHD
-	10/27	not present	-	Naples Pier	CCHD
-	10/31	BACKGROUND	-	Naples Pier	CCHD
-	10/31	VERY LOW	-	South Marco Beach	CCHD
-	10/27	BACKGROUND	-	South Marco Beach	CCHD

Note: ChCPRCR = Charlotte Co Parks Recreation and Cultural Resources; CCHD = Collier County Health Department; FDACS = Florida Department of Agriculture and Consumer Services; FWC-MP = FWC Manatee Program; FWRI = FWC-Fish and Wildlife Research Institute; 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:8884043922) (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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