Fish and Wildlife Research Institute
100 Eighth Avenue SE ; St. Petersburg, FL 33701
tel: (727) 896-8626 fax: (727) 550-4222

HAB PHYTOPLANKTON REPORT

Sample Date: 11/3/2014 **Collected By:** Santana-Reyes, Yam **Collecting Agency:** FDACS **Analysis Date:** 11/4/2014 **FWRI Analyst:** Henschen, K. **Sample Condition** Preserved

HAB ID / Original ID	Location	County	Lat/Lon (DD.dddd)	Time (GMT)	Depth (m)	Temp (C)	Sal (ppt)	DO .	pH .	*Genus species*	cells/liter	Comments
HABW141104-014 Lemon Bay (SHA 56) SEAS #272	**Gasparilla Pass**	Charlotte	26.8136 -82.2785	16:54	.5	.	.	.	.			
										Karenia brevis	4,667	
										Pyrodinium bahamense	0	
HABW141104-015 Gasparilla Sound (SHA 58)	**Boca Grande Pass**	Lee	26.7117 -82.2583	17:13	.5	.	.	.	.			
										Karenia brevis	125,000	
										Pyrodinium bahamense	0	
HABW141104-016 Gasparilla Sound (SHA 58)	**Boca Grande; 2.4 mi E of (Charlotte Harbor)**	Charlotte	26.7407 -82.2145	17:24	.5	.	.	.	.			
										Karenia brevis	55,667	
										Pyrodinium bahamense	0	
HABW141104-017 Gasparilla Sound (SHA 58)	**Bull Key; W of (Bull Bay)**	Charlotte	26.7723 -82.2087	17:31	.5	.	.	.	.			
										Pyrodinium bahamense	0	
										Karenia brevis	0	
HABW141104-018 Gasparilla Sound (SHA 58)	**Sandfly Key; W of (Gasparilla Sound)**	Charlotte	26.7876 -82.2452	17:36	.5	.	.	.	.			
										Karenia brevis	1,000	
										Pyrodinium bahamense	0	

NOTE : Blank field = not measured.

HAB ID Original ID	Location	County	Lat/Lon (DD.dddd)	Time (GMT)	Depth (m)	Temp (C)	Sal (ppt)	DO .	pH .	*Genus species*	cells/liter	Comments
HABW141104-019 Gasparilla Sound (SHA 58) SEAS	**Catfish Creek; mouth of (Gasparilla Sound)**	Charlotte	26.8166 -82.2524	17:41	.5	.	.	.	.			
										Karenia brevis	2,667	
										Pyrodinium bahamense	0	

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HAB PHYTOPLANKTON REPORT

Sample Date: 11/3/2014 **Collected By:** Evers, Chad **Collecting Agency:** FDACS **Analysis Date:** 11/4/2014 **FWRI Analyst:** Henschen, K. **Sample Condition** Preserved

HAB ID / Original ID	Location	County	Lat/Lon (DD.dddd)	Time (GMT)	Depth (m)	Temp (C)	Sal (ppt)	DO .	pH .	*Genus species*	cells/liter	Comments
HABW141104-001 Pine Island Sound (SHA 62)	**Captiva Pass**	Lee	26.6092 -82.2210	16:51	.5	.	.	.	.			
										Karenia brevis	6,000	
										Pyrodinium bahamense	0	
HABW141104-002 Pine Island Sound (SHA 62) SEAS	**Cabbage Key; S of (Pine Island Sound)**	Lee	26.6467 -82.2203	16:59	.5	.	.	.	.			
										Karenia brevis	173,333	
										Pyrodinium bahamense	0	
HABW141104-003 Pine Island Sound (SHA 62)	**Mondongo Island; W of (Pine Island Sound)**	Lee	26.6798 -82.2196	17:07	.5	.	.	.	.			
										Karenia brevis	66,667	
										Pyrodinium bahamense	0	
HABW141104-004 Gasparilla Sound (SHA 58)	**Boca Grande Pass**	Lee	26.7117 -82.2583	17:17	.5	.	.	.	.			
										Karenia brevis	14,000	
										Pyrodinium bahamense	0	
HABW141104-005 Pine Island Sound (SHA 62) SEAS	**Little Bokeelia Island; N of (Pine Island**	Lee	26.7022 -82.1830	17:28	.5	.	.	.	.			
										Karenia brevis	3,000	
										Pyrodinium bahamense	0	

NOTE : Blank field = not measured.

HAB ID Original ID	Location	County	Lat/Lon (DD.dddd)	Time (GMT)	Depth (m)	Temp (C)	Sal (ppt)	DO .	pH .	*Genus species*	cells/liter	Comments
HABW141104-006 Pine Island Sound (SHA 62)	**Part Island; N of (Pine Island Sound)**	Lee	26.6716 -82.1895	17:35	.5	.	.	.	.			
										Karenia brevis	22,333	
										Pyrodinium bahamense	0	
HABW141104-007 Pine Island Sound (SHA 62)	**Hemp Key; 1 mi SW of (Pine Island Sound)**	Lee	26.5887 -82.1637	16:05	.5	.	.	.	.			
										Karenia brevis	5,333	
										Pyrodinium bahamense	0	
HABW141104-008 Pine Island Sound (SHA 62) SEAS	**Cork Island; W of (Pine Island Sound)**	Lee	26.5743 -82.1356	16:10	.5	.	.	.	.			
										Karenia brevis	2,333	
										Pyrodinium bahamense	0	
HABW141104-009 Pine Island Sound (SHA 62) SEAS	**Regla Island; S of (Pine Island Sound)**	Lee	26.5324 -82.1194	16:16	.5	.	.	.	.			
										Karenia brevis	0	
										Pyrodinium bahamense	0	
HABW141104-010 Pine Island Sound (SHA 62) SEAS	**York Island; W of (Pine Island Sound)**	Lee	26.4887 -82.1073	16:25	.5	.	.	.	.			
										Karenia brevis	4,000	
										Pyrodinium bahamense	0	
HABW141104-011 Pine Island Sound (SHA 62) SEAS	**Buck Key; E of (Wulfert Channel)**	Lee	26.4942 -82.1752	16:34	.5	.	.	.	.			
										Karenia brevis	5,667	
										Pyrodinium bahamense	0	
HABW141104-012 Pine Island Sound (SHA 62)	**Redfish Pass (Pine Island Sound)**	Lee	26.5535 -82.1963	16:43	.5	.	.	.	.			
										Karenia brevis	27,000	
										Pyrodinium bahamense	0	

NOTE : Blank field = not measured.

HAB ID Original ID	Location	County	Lat/Lon (DD.dddd)	Time (GMT)	Depth (m)	Temp (C)	Sal (ppt)	DO .	pH .	*Genus species*	cells/liter	Comments
HABW141104-013 Pine Island Sound (SHA 62)	**Captiva Rocks; SW of (Pine Island Sound)**	Lee	26.5993 -82.1846	17:47	.5	.	.	.	.			
										Karenia brevis	31,333	
										Pyrodinium bahamense	0	

NOTE : Blank field = not measured.

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HAB PHYTOPLANKTON REPORT

Sample Date: 11/3/20ᴍᴨ **Collected By:** {ΰl·ᵀᵀ **Collecting Agency:** C59t **Analysis Date:** ᴍ1/4/201ᴨ **FWRI Analyst:** Markley, L. **Sample Condition** Preserved

HAB ID / Original ID	Location	County	Lat/Lon (DD.dddd)	Time (GMT)	Depth (m)	Temp (C)	Sal (ppt)	DO mg/L	pH	*Genus species*	cells/liter	Comments
HABW141104-023 FDEP CHV007	**Punta Gorda Boat Ramp (Charlotte**	Charlotte	26.9092 -82.0953	11:39	1.6	20.30	20.1	4.00	7.93			
										Karenia brevis	0	
										Pyrodinium bahamense	0	
HABW141104-024 FDEP CHV009	**Burnt Store Marina (Charlotte Harbor)**	Lee	26.7614 -82.0611	11:55	1.0	17.70	28.9	3.10	7.76			
										Karenia brevis	0	
										Pyrodinium bahamense	0	
HABW141104-025 FDEP EBV001	**Matanzas Pass (Estero Bay)**	Lee	26.4577 -81.9532	11:45	.5	19.40	29.6	6.40	8.08			
										Pyrodinium bahamense	0	
										Karenia brevis	0	
HABW141104-026 FDEP EBV003	**Estero River; mouth of (Estero Bay)**	Lee	26.4294 -81.8580	12:00	.8	16.60	31.4	7.60	7.98			
										Pyrodinium bahamense	0	
										Karenia brevis	0	
HABW141104-027 FDEP EBV004	**Carl Johnson Park Boat Ramp (Estero Bay)**	Lee	26.3936 -81.8655	11:40	1.4	15.90	32.6	7.90	8.15			
										Karenia brevis	0	
										Pyrodinium bahamense	0	

NOTE : Blank field = not measuredc.

HAB ID Original ID	Location	County	Lat/Lon (DD.dddd)	Time (GMT)	Depth (m)	Temp (C)	Sal (ppt)	DO mg/L	pH	*Genus species*	cells/liter	Comments
HABW141104-028 FDEP EBV005	**Pelican Bay Nature Park Pier (Estero Bay)**	Lee	26.3584 -81.8375	11:45	.7	17.60	30.3	5.40	7.67			
										Karenia brevis	0	
										Pyrodinium bahamense	0	
HABW141104-029 FDEP EBV006	**Coon Key; N of (Estero Bay)**	Lee	26.4287 -81.8832	12:30	1.2	17.60	30.5	7.30	8.51			
										Karenia brevis	0	
										Pyrodinium bahamense	0	
HABW141104-030 FDEP EBV007	**Mound House Dock (Estero Bay)**	Lee	26.4462 -81.9272	12:12	2.4	19.70	30.1	6.00	8.03			
										Pyrodinium bahamense	0	
										Karenia brevis	0	
HABW141104-031 FDEP EBERS2	**Estero River; upstream**	Lee	26.4386 -81.8400	12:00	1.7	18.20	7.0	3.80	7.55			
										Karenia brevis	0	
										Pyrodinium bahamense	0	

NOTE : Blank field = not measured.

Description	*Karenia brevis* cells/L	Possible Effects (*Karenia brevis* only)
NOT PRESENT - BACKGROUND	0 - 1,000	None anticipated
VERY LOW	> 1,000 - 10,000	Possible respiratory irritation; shellfish harvesting closures ≥ 5,000 cells/L
LOW	> 10,000 - 100,000	Respiratory irritation; possible fish kills and bloom chlorophyll probably detected by satellites at upper range
MEDIUM	> 100,000 -1,000,000	Respiratory irritation and probable fish kills
HIGH	> 1,000,000	As above plus discoloration

The above report is distributed by the Harmful Algal Bloom (HAB) Group at the Fish and Wildlife Research Institute of the Florida Fish and Wildlife Conservation Commission. The report is intended to (1) provide timely information on HABs in Florida waters to partner agencies and (2) facilitate communication among individuals who direct response activities to address public health concerns. We report on the abundance of *Karenia brevis* and *Pyrodinium bahamense*. *Karenia brevis*, the Florida red tide organism, produces neurotoxins called brevetoxins that can kill fish and other marine life. Brevetoxins may cause respiratory irritation in beachgoers and Neurotoxic Shellfish Poisoning in humans that consume contaminated shellfish. *Pyrodinium bahamense* produces saxitoxins that can cause Paralytic Shellfish Poisoning or Saxitoxin Puffer Fish Poisoning in humans if contaminated shellfish or puffer fish are consumed. For information on red tide related human health issues, please refer to the Department of Health Aquatic Toxins Program.

State-wide status reports including interactive Google Maps are provided weekly by our group and shellfish harvesting area status maps are provided by the Division of Aquaculture. Gulf Coast beach conditions can be found at Mote Marine Laboratory's Beach Conditions Report. A full list of red tide related hotlines and information sources can be found here. Data for other species can be requested at any time by sending an inquiry to HABData@myFWC.com. To learn more about HAB monitoring and research in Florida, please visit Facebook.com/FLHABs.

DISCLAIMER: While every practical step has been taken to provide accurate information in these reports, the need for rapid distribution precludes extensive review. Further, reports are generated with limited interpretation and do


Punta Gorda Boat Ramp
Charlotte
Gasparilla Pass
Catfish Creek; mouth of
Sandfly Key; W of
Bull Key; W of
Burnt Store Marina
Boca Grande; 2.4 mi E of
Boca Grande Pass
Little Bokeelia Island; N of
Mondongo Island; W of
Part Island; N of
Cabbage Key; S of
Captiva Rocks; SW of
Captiva Pass
Hemp Key; 1 mi SW of
Cork Island; W of
Redfish Pass
Regla Island; S of
Lee
Buck Key; E of
Coon Key; N of
Estero River; mouth of
Matanzas Pass
Estero River; upstream
Carl Johnson Park Boat Ramp
Mound House Dock
Pelican Bay Nature Park Pier
Karenia brevis scale (cells/liter)
NOT PRESENT – BACKGROUND (0 to 1,000)
VERY LOW (>1,000 to 10,000)
LOW (>10,000 to 100,000)
MEDIUM (>100,000 to 1,000,000)
HIGH (>1,000,000)
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat
10.04 mi
Google earth