

HAB MONITORING REPORT

From: 1/3/2023 To: 1/3/2023

Fish and Wildlife Research Institute



Collected by: Volunteer(s)
 Collecting agency: FDEP-CHAP
 Sample condition: Preserved

HAB ID	Location	County	Lat/Lon (DD.dddd)	Time	Depth (m)	Temp (C)	Sal (ppt)	DO (mg/L)	pH	Species	cells/liter
HABW230104-035 FDEP CHV007 1/3/2023	Punta Gorda Boat Ramp (Charlotte Harbor)	Charlotte	26.9092 -82.0953	07:40	0.5	19.50	23.97	7.21	8.03		
<p>Analyzed by: Thurmond, R. on 1/4/2023</p> <p>Comments: Yellow Brown Water. Sunny. Wind S at 4-7mph. Secchi Depth = 0.6m. Air Temperature = 20.1 C.</p>											
										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia spp.</i>	0
										<i>Pyrodinium bahamense</i>	0
HABW230104-036 FDEP CHV010 1/3/2023	Bokeelia Fishing Pier (Charlotte Harbor)	Lee	26.7067 -82.1637	07:07	0.5	20.10	29.43	6.03	7.97		
<p>Analyzed by: Thurmond, R. on 1/4/2023</p> <p>Comments: Yellow Brown Water. Sunny. Wind NE at 2-3mph. Air Temperature = 19.4 C.</p>											
										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia spp.</i>	0
										<i>Pyrodinium bahamense</i>	0
HABW230104-038 FDEP MPV002/MP3C 1/3/2023	Porpoise Point Island; SW of (Matlacha Pass)	Lee	26.6250 -82.0742	07:01	0.5	22.40	24.01	4.37	7.78		
<p>Analyzed by: Markley, L. on 1/4/2023</p> <p>Comments: Medium Brown Water. Partly Cloudy. Wind SE at 2-3mph. Secchi Depth = 1.6m. Air Temperature = 19.7 C. Smells like dead fish</p>											
										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia spp.</i>	0
										<i>Pyrodinium bahamense</i>	0
HABW230104-047 FDEP PIV001 1/3/2023	Pelican Bay (Pine Island Sound)	Lee	26.6908 -82.2447	07:20	0.5	17.70	35.17	7.26	7.93		
<p>Analyzed by: Thurmond, R. on 1/4/2023</p> <p>Comments: Yellow Brown Water. Sunny. Winds SE at 4-7mph. Secchi Depth = 1.7m. Air Temperature = 17.6 C. Some foam, some dead fish, and fishy smell. High turbidity.</p>											
										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia spp.</i>	0
										<i>Pyrodinium bahamense</i>	0
HABW230104-048 FDEP PIV 002 1/3/2023	Black Key; NE of (Pine Island Sound)	Lee	26.6623 -82.1702	07:50	0.5	18.10	34.40	7.38	7.97		
<p>Analyzed by: Markley, L. on 1/4/2023</p> <p>Comments: Yellow Brown Water. Sunny. Secchi Depth - Good to Bottom. Winds SE at 4-7mph. Air Temperature = 18.5 C.</p>											
										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia spp.</i>	7,000
										<i>Pyrodinium bahamense</i>	0

NOTE: Blank field = not measured

HAB ID	Location	County	Lat/Lon (DD.dddd)	Time	Depth (m)	Temp (C)	Sal (ppt)	DO (mg/L)	pH	Species	cells/liter
HABW230104-065 FDEP LBV001b 1/3/2023	South Venice Beach Boat Ramp	Sarasota	27.0395 -82.4265	07:33	0.5	22.00	29.77	4.48	7.37		
Analyzed by: Thurmond, R. on 1/4/2023										<i>Karenia brevis</i>	0
Comments: Yellow Green Water. Sunny. Winds E at 0-1mph. Secchi Depth - Good to Bottom. Air Temperature = 19.6 C.										<i>Pseudo-nitzschia spp.</i>	0
										<i>Pyrodinium bahamense</i>	0

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Collected by: Knauf, B.

Collecting agency: PC

Sample condition: Preserved

HAB ID	Location	County	Lat/Lon (DD.dddd)	Time	Depth (m)	Temp (C)	Sal (ppt)	DO (mg/L)	pH	Species	cells/liter
HABW230104-023 SHB - Nokomis B. 1/3/2023	Nokomis Beach	Sarasota	27.1233 -82.4712	06:45	0.5	17.00					
Analyzed by: Henschen, K. on 1/4/2023 Comments:										<i>Karenia brevis</i> 2,000 <i>Pseudo-nitzschia spp.</i> 45,667 <i>Pyrodinium bahamense</i> 0	
HABW230104-024 SHB - North Jetty 1/3/2023	North Jetty	Sarasota	27.1138 -82.4688	06:30	0.5	18.00					
Analyzed by: Henschen, K. on 1/4/2023 Comments:										<i>Karenia brevis</i> 1,333 <i>Pseudo-nitzschia spp.</i> 0 <i>Pyrodinium bahamense</i> 0	

HAB MONITORING REPORT

From: 1/3/2023 To: 1/3/2023

Fish and Wildlife Research Institute



Collected by: Volunteer(s)
 Collecting agency: FDEP-EBAP
 Sample condition: Preserved

HAB ID	Location	County	Lat/Lon (DD.dddd)	Time	Depth (m)	Temp (C)	Sal (ppt)	DO (mg/L)	pH	Species	cells/liter
HABW230104-066 FDEP EBV001 1/3/2023	Matanzas Pass (Estero Bay)	Lee	26.4577 -81.9532	07:01	0.5	21.70	30.88	5.54	7.83		
Analyzed by: Conte, Camden on 1/4/2023 Comments: Green Brown Water. Sunny. Winds SE at 2-3mph. Secchi Depth= 2.1m. Air Temperature = 19.6 C.										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia sp.</i>	1,333
										<i>Pyrodinium bahamense</i>	0
HABW230104-067 FDEP EBV003 1/3/2023	Estero River; mouth of (Estero Bay)	Lee	26.4294 -81.8580	07:15	0.5	22.30	28.52	6.01	7.71		
Analyzed by: Conte, Camden on 1/4/2023 Comments: Yellow Brown Water. Partly Cloudy. Winds E at 2-3mph. Secchi Depth= 0.7m. Air Temperature = 19.7 C.										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia sp.</i>	1,333
										<i>Pyrodinium bahamense</i>	0
HABW230104-068 FDEP EBV005 1/3/2023	Pelican Bay Nature Park Pier (Estero Bay)	Lee	26.3584 -81.8375	06:47	0.5	22.20	27.91		7.80		
Analyzed by: Mahank, Shelby on 1/4/2023 Comments: Green Brown Water. Sunny. Winds E at 4-8mph. Secchi Depth= 0.5m. Air Temperature = 19.8 C.										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia sp.</i>	14,667
										<i>Pyrodinium bahamense</i>	0
HABW230104-069 FDEP EBV007 1/3/2023	Mound House Dock (Estero Bay)	Lee	26.4462 -81.9272	07:15	0.5	22.30	31.19	6.62	7.90		
Analyzed by: Mahank, Shelby on 1/4/2023 Comments: Green Brown Water. Sunny. Winds E at 4-7mph. Secchi Depth= 1.6m. Air Temperature = 22.7 C.										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia sp.</i>	667
										<i>Pyrodinium bahamense</i>	0

NOTE: Blank field = not measured

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Collected by: Galpin, D.

Collecting agency: CF

Sample condition: Preserved

HAB ID	Location	County	Lat/Lon (DD.dddd)	Time	Depth (m)	Temp (C)	Sal (ppt)	DO (mg/L)	pH	Species	cells/liter
HABW230104-043	Argentine Court; canal E of	Lee	26.6270 -82.1170	12:00	0.5						
1/3/2023											
Analyzed by: KellerAbbe, S. on 1/4/2023										<i>Karenia brevis</i>	0
Comments: Large fish kill, sailcats										<i>Pseudo-nitzschia spp.</i>	0
										<i>Pyrodinium bahamense</i>	0
HABW230104-044	Bear Key; W of (Matlacha Pass)	Lee	26.6450 -82.1060	12:15	0.5						
1/3/2023											
Analyzed by: KellerAbbe, S. on 1/4/2023										<i>Karenia brevis</i>	0
Comments:										<i>Pseudo-nitzschia spp.</i>	0
										<i>Pyrodinium bahamense</i>	0

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 \geq 5,000 cells/L
LOW	> 10,000 - 100,000 cells/L	respiratory irritation; possible fish kills; probable detection of surface chlorophyll by satellites at upper range of cell abundance
MEDIUM	> 100,000 - 1,000,000 cells/L	respiratory irritation; probable fish kills; detection of surface chlorophyll by satellites
HIGH	> 1,000,000 cells/L	as above, plus water 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*, *Pyrodinium bahamense* and *Pseudo-nitzschia* species. [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. Some, but not all, species of [Pseudo-nitzschia](#) produce domoic acid, which can cause Amnesic Shellfish Poisoning in humans if contaminated shellfish are consumed. Blooms of *Pseudo-nitzschia* spp. (\geq 1,000,000 cells/L) frequently occur in Florida's marine and estuarine waters. For information on red tide related human health issues, please refer to the [Department of Health Aquatic Toxins Program](#).

[State-wide status reports](#) of *Karenia brevis* abundance including interactive Google Maps are provided weekly by our group. [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 MyFWC.com/Research/redtide and 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 not necessarily reflect all scientific observations.



Nokomis Beach North Jetty

Sarasota

South Venice Beach Boat Ramp

Punta Gorda Boat Ramp

Charlotte

Bokeelia Fishing Pier

Pelican Bay

Black Key; NE of

Bear Key; W of

Argentine Court; canal E of

Porpoise Point Island; SW of

Lee

Karenia brevis (cells/liter)

- not present/background (0-1,000)
- very low (>1,000-10,000)
- low (>10,000-100,000)
- medium (>100,000-1,000,000)
- high (>1,000,000)

Matanzas Pass

Mound House Dock

Estero River; mouth of

Google Earth

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Image Landsat / Copernicus

Pelican Bay Nature Park Pier

20 mi

