

HAB MONITORING REPORT

From: 5/1/2023 To: 5/1/2023

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
HABW230502-015 FDEP LBV006 5/1/2023	Placida Road Bridge (Buck Creek)	Charlotte	26.8904 -82.3090	07:15	0.3	24.50	34.34	2.44	7.29		
<p>Analyzed by: Henschen, K. on 5/2/2023</p> <p>Comments: Wind W @ 8-12 mph, partly cloudy skies, air 21.1 C, tide high slack, secchi > B, water green</p>											
										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia spp.</i>	0
										<i>Pyrodinium bahamense</i>	0
HABW230502-016 FDEP GSV002 5/1/2023	Placida Fishing Pier (Gasparilla Sound)	Charlotte	26.8271 -82.2672	06:36	0.5	25.00	36.00	4.92	8.02		
<p>Analyzed by: Henschen, K. on 5/2/2023</p> <p>Comments: Wind NW @ 8-12 mph, sunny, air 23.9 C, tide incoming, secchi = 1.3 m, water green brown</p>											
										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia spp.</i>	40,333
										<i>Pyrodinium bahamense</i>	0
HABW230502-019 FDEP GSV006 5/1/2023	Little Gasparilla Island; E of (Placida Harbor)	Charlotte	26.8349 -82.2909	07:00	0.5	24.90	36.25	4.84	8.19		
<p>Analyzed by: Henschen, K. on 5/2/2023</p> <p>Comments: Wnd WNW @ 10 mph, partly cloudy skies, air 21.1 C, tide incoming, secchi > B, water light brown and clear</p>											
										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia spp.</i>	4,667
										<i>Pyrodinium bahamense</i>	0
HABW230502-020 FDEP CHV009 5/1/2023	Burnt Store Marina (Charlotte Harbor)	Lee	26.7614 -82.0611	06:57	0.5	24.80	31.19	3.32	7.54		
<p>Analyzed by: Conte, Camden on 5/2/2023</p> <p>Comments: Wind NW @ 8-12 mph, partly cloudy skies, 0.04" precipitaiton in last 24 hrs, air 21 C, tide low slack, secchi = 1.1 m, water dark brown</p>											
										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia spp.</i>	5,333
										<i>Pyrodinium bahamense</i>	0
HABW230502-021 FDEP CHV006 5/1/2023	Gilchrist Park Pier (Peace River)	Charlotte	26.9340 -82.0575	06:50	0.5	24.50	25.27	6.57	7.77		
<p>Analyzed by: Conte, Camden on 5/2/2023</p> <p>Comments: Wind W @ 4-7 mph, partly cloudy skies, 1.2" precipitation in last 24 hrs, air 20.1 C, tide outgoing, secch > B, water dark brown</p>											
										<i>Karenia brevis</i>	0
										<i>Pseudo-nitzschia spp.</i>	0
										<i>Pyrodinium bahamense</i>	0

NOTE: Blank field = not measured

HAB ID	Location	County	Lat/Lon (DD.ddddd)	Time	Depth (m)	Temp (C)	Sal (ppt)	DO (mg/L)	pH	Species	cells/liter
HABW230502-022 FDEP CHV007 5/1/2023	Punta Gorda Boat Ramp (Charlotte Harbor)	Charlotte	26.9092 -82.0953	07:25	0.5	26.10	28.99	3.82	7.60		
Analyzed by: Conte, Camden on 5/2/2023										<i>Karenia brevis</i>	0
Comments: Wind W @ 4-7 mph, partly cloudy skies, 0.2" precipitation in last 24 hrs, air 21.2 C, tide outgoing-low slack, secchi = 1.2 m, water yellow brown										<i>Pseudo-nitzschia spp.</i>	37,000
										<i>Pyrodinium bahamense</i>	0
HABW230502-023 FDEP GSV005B 5/1/2023	Coral Creek	Charlotte	26.8553 -82.2903	07:00	0.5	28.30	35.37	2.90	7.09		
Analyzed by: Conte, Camden on 5/2/2023										<i>Karenia brevis</i>	0
Comments: Wind NE @ 0-1 mph, sunny, 0.5" precipitation in last 24 hrs, air 22 C, tide low slack, secchi = 0.6 m, water green brown										<i>Pseudo-nitzschia spp.</i>	0
										<i>Pyrodinium bahamense</i>	0
HABW230502-027 FDEP LBV007 5/1/2023	Don Pedro Island State Park (Kettle Harbor)	Charlotte	26.8558 -82.3031	06:40	0.5	26.70	36.60	7.83	7.95		
Analyzed by: Conte, Camden on 5/2/2023										<i>Karenia brevis</i>	1,667
Comments: Winds NW at 12mph, partly cloudy skies, air temp= 21.6C, secchi ave= 3.0m, green/brown water color.										<i>Pseudo-nitzschia spp.</i>	29,667
										<i>Pyrodinium bahamense</i>	0
HABW230502-028 FDEP LBANG1 5/1/2023	Ainger Creek Park; N of	Charlotte	26.9305 -82.3363	06:50	0.5	24.50	32.06	2.03	7.69		
Analyzed by: Mahank, Shelby on 5/2/2023										<i>Karenia brevis</i>	0
Comments: Winds NW at 8-12mph, partly cloudy skies, air temp= 21.1C, secchi ave= >B, yellow/green water color.										<i>Pseudo-nitzschia sp.</i>	2,667
										<i>Pyrodinium bahamense</i>	0
HABW230502-029 FDEP GSV001 5/1/2023	Coral Creek Fishing Pier	Charlotte	26.8339 -82.2650	06:50	0.5	24.40	37.38	3.47	7.53		
Analyzed by: Mahank, Shelby on 5/2/2023										<i>Karenia brevis</i>	0
Comments: Winds NW at 8-12mph, partly cloudy skies, air temp= 20.2C, secchi ave= 1.5m, medium brown water color.										<i>Pseudo-nitzschia sp.</i>	1,333
										<i>Pyrodinium bahamense</i>	0
HABW230502-030 FDEP MPV004 5/1/2023	Dawson Canal; E of (Matlacha Pass)	Lee	26.5022 -82.0619	06:55	0.5	25.10	28.51	5.60	8.18		
Analyzed by: Henschen, K. on 5/2/2023										<i>Karenia brevis</i>	0
Comments: Winds NW at 4-7mph, partly cloudy skies, air temp= 21.2C, secchi ave= 2.1m, yellow/brown water color.										<i>Pseudo-nitzschia spp.</i>	8,333
										<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
HABW230502-031 FDEP LBV005 5/1/2023	Ski Alley (Lemon Bay)	Charlotte	26.9111 -82.3522	07:23	0.5	25.20	35.51	3.90	8.04		
Analyzed by: Henschen, K. on 5/2/2023										<i>Karenia brevis</i>	0
Comments: Winds NW at 8-12mph, partly cloudy skies, air temp= 23.3C, secchi ave= 1.1m, yellow/brown water color.										<i>Pseudo-nitzschia spp.</i>	50,667
										<i>Pyrodinium bahamense</i>	0
HABW230502-032 FDEP CHV010 5/1/2023	Bokeelia Fishing Pier (Charlotte Harbor)	Lee	26.7067 -82.1637	07:10	0.5	24.40	34.59	5.21	8.01		
Analyzed by: Mahank, Shelby on 5/2/2023										<i>Karenia brevis</i>	0
Comments: Winds NW 8-12mph, partly cloudy skies, air temp= 21.8C, secchi ave=>B, green/brown water color,										<i>Pseudo-nitzschia spp.</i>	206,333
										<i>Pyrodinium bahamense</i>	0

NOTE: Blank field = not measured

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.



***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)

Google Earth

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

Image Landsat / Copernicus

Image © 2023 TerraMetrics

10 mi