

HAB MONITORING REPORT
From: 1/2/2018 To: 1/2/2018
Fish and Wildlife Research Institute



HAB ID Original ID Sample Date	Location	County	Lat/Lon (DD.dddd)	Time	Depth (m)	Temp (C)	Sal (ppt)	DO (mg/L)	pH	Species	cells/liter
HABW180103-014 FDEP EBV001 1/2/2018	Matanzas Pass (Estero Bay)	Lee	26.4577 -81.9532	09:38	0.5	17.10	27.81	6.53	8.00		
	Collected by: Winter, T. of EBAP; Preserved									<i>Karenia brevis</i>	0
	Analyzed by: Villac, M.C. on 1/3/2018									<i>Pseudo-nitzschia spp.</i>	0
	Comments: Wind E at 25-31mph, overcast skies, incoming tide with ripples									<i>Pyrodinium bahamense</i>	0
HABW180103-015 FDEP EBV004 1/2/2018	Carl Johnson Park Boat Ramp (Estero Bay)	Lee	26.3936 -81.8655	06:45	0.2	15.30	33.18	5.77	7.94		
	Collected by: Volunteer(s) of EBAP; Preserved									<i>Karenia brevis</i>	0
	Analyzed by: KellerAbbe, S. on 1/4/2018									<i>Pseudo-nitzschia spp.</i>	58,333
	Comments: Wind NE at 13-18mph, overcast skies, outgoing tide with waves.									<i>Pyrodinium bahamense</i>	0
HABW180103-016 FDEP EBV007 1/2/2018	Mound House Dock (Estero Bay)	Lee	26.4462 -81.9272	07:11	0.5	16.90	28.65	6.33	7.45		
	Collected by: Volunteer(s) of EBAP; Preserved									<i>Karenia brevis</i>	0
	Analyzed by: KellerAbbe, S. on 1/4/2018									<i>Pseudo-nitzschia sp.</i>	1,333
	Comments: Wind NE at 13-18mph, overcast skies, outgoing tide with waves.									<i>Pyrodinium bahamense</i>	0
HABW180103-017 FDEP EBERS2 1/2/2018	Estero River; upstream	Lee	26.4386 -81.8400	07:40	0.5	17.60	6.51	5.51	7.78		
	Collected by: Fretwell of EBAP; Preserved									<i>Karenia brevis</i>	0
	Analyzed by: KellerAbbe, S. on 1/4/2018									<i>Pseudo-nitzschia spp.</i>	0
	Comments: Wind N at 8-12mph, overcast skies, outgoing tide with ripples.									<i>Pyrodinium bahamense</i>	0

NOTE: Blank field = not measured

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Collected by: Volunteer(s)
 Collecting agency: FDEP
 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
HABW180103-018 FDEP CHV007 1/2/2018	Punta Gorda Boat Ramp (Charlotte Harbor)	Charlotte	26.9092 -82.0953	07:50	0.5	16.40	25.80	6.47	7.89		
<p>Analyzed by: KellerAbbe, S. on 1/4/2018</p> <p>Comments: Wind NE at 8-12mph, overcast skies, outgoing tide with waves.</p>											
										<i>Karenia brevis</i>	65,667
										<i>Pseudo-nitzschia spp.</i>	12,000
										<i>Pyrodinium bahamense</i>	0
HABW180103-019 FDEP CHV009 1/2/2018	Burnt Store Marina (Charlotte Harbor)	Lee	26.7614 -82.0611	07:31	0.5	17.80	27.32	5.01	8.24		
<p>Analyzed by: Henschen, K. on 1/3/2018</p> <p>Comments: Wind N at 13-18mph, overcast skies, low slack with ripples.</p>											
										<i>Karenia brevis</i>	15,333
										<i>Pseudo-nitzschia spp.</i>	122,333
										<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/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.



Punta Gorda Boat Ramp

Charlotte

Burnt Store Marina

Lee

Matanzas Pass

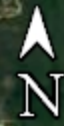
Mound House Dock

Estero River, upstream

Carl Johnson Park Boat Ramp

***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)



10 mi