HAB MONITORING REPORT

From: 11/7/2022 To: 11/7/2022

Fish and Wildlife Research Institute

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Collecting agency: FDEP-EBAP Sample condition: Preserved

Collected by: Volunteer(s)

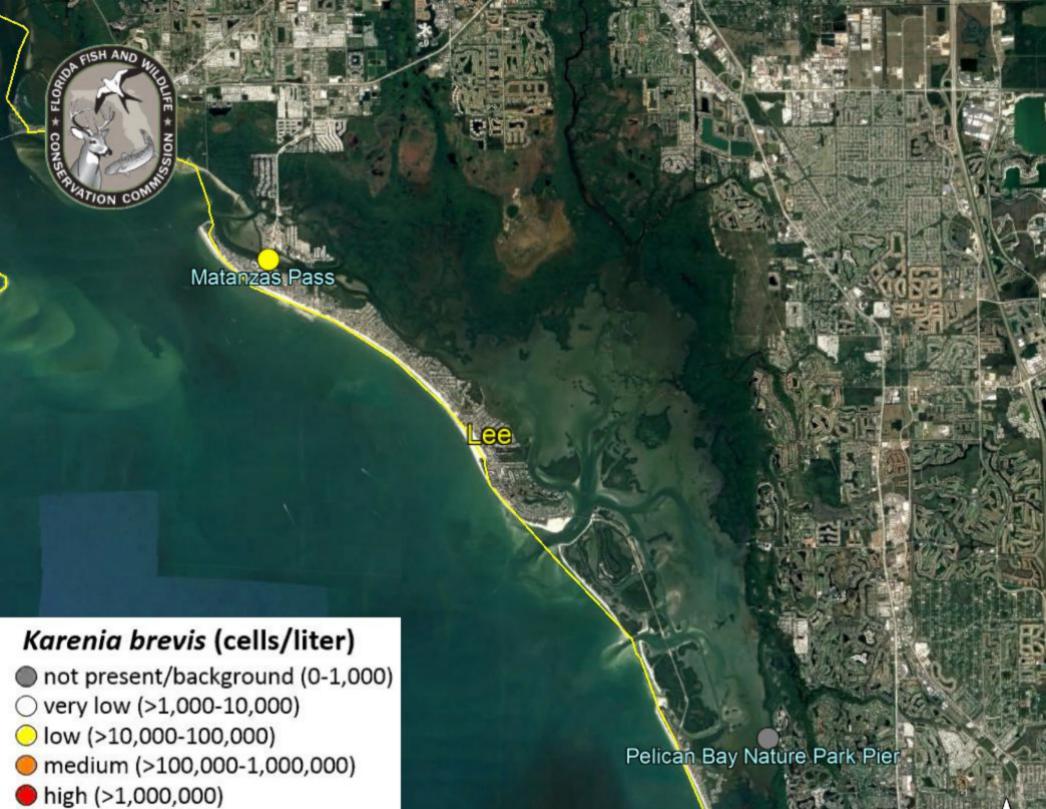
HAB ID	Location	County	Lat/Lon	Time	Depth	Temp	Sal	DO	рН	Species	cells/liter
Original ID			(DD.dddd)	(m)	(C)	(ppt)	(mg/L)			
Sample Date											
HABW221108-024 FDEP EBV001 11/7/2022	Matanzas Pass (Estero Bay)	Lee	26.4577 -81.9532	06:02	0.5	26.30	28.93	2.81	7.59		
Comments: Wind	schen, K. on 11/9/2022 I NE @ 4-7 mph, sunny, air 21.5 C; tide low s 2 m, water yellow brown	lack, secchi								Karenia brevis Pseudo-nitzschia spp. Pyrodinium bahamense	25,667 2,667 0
HABW221108-025 FDEP EBV005 11/7/2022	Pelican Bay Nature Park Pier (Ester Bay)	ro Lee	26.3584 -81.8375	06:41	0.5	25.70	19.08	3.15	7.74		
Comments: Wind	ank, Shelby on 11/8/2022 I NE @ 4-8 mph, sunny, precipitation .001, aiı Iow slack, secchi = 0.8m water dark brown	r 22.8 C;								Karenia brevis Pseudo-nitzschia spp. Pyrodinium bahamense	0 7,000 0

Description	Karenia brevis 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					
нідн	> 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 *Pseudonitzschia* 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. (≥ 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 <u>Department of Health Aquatic Toxins Program</u>.

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.



Google Earth

Data SIO, NOAA, U.S. Navy, NGA, GEBCO Image ©2022 TerraMetrics

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