HAB MONITORING REPORT

From: 7/6/2015 To: 7/6/2015





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											
HABW150707-0 FDEP EBV001 7/6/2015	Matanzas Pass (Estero Bay)	Lee	26.4577 -81.9532	06:48	0.5	30.00	35.34	3.56	8.11		
	Collected by: Griffin, C. of EBAP; Preserved									Karenia brevis	0
Analyzed by: KellerAbbe, S. on 7/7/2015									Pseudo-nitzschia spp.	9,667	
	Comments: Overcast; Wind NE @ 0-1 mph; Ye	ellow green water								Pyrodinium bahamense	0
HABW150707-0 FDEP EBV003 7/6/2015	007 Estero River; mouth of (Estero	Bay) Lee	26.4294 -81.8580	06:40	0.5	27.80	30.18	2.52	8.05		
	Collected by: Sims, C. of EBAP; Preserved									Karenia brevis	0
Analyzed by: Markley, L. on 7/7/2015										Pseudo-nitzschia spp.	2,000
	Comments: Partly cloudy; Wind NE @ 4-7 mph	ı; Green brown water								Pyrodinium bahamense	0
HABW150707-0 FDEP EBV004 7/6/2015	Carl Johnson Park Boat Ramp (Bay)	Estero Lee	26.3936 -81.8655	06:50	0.5	28.20	32.70	5.38	8.17		
	Collected by: Volunteer(s) of EBAP; Preserved									Karenia brevis	0
Analyzed by: Markley, L. on 7/7/2015		_								Pseudo-nitzschia spp.	0
	Comments: Partly cloudy; Wind E @ 0-1 mph;	Green water								Pyrodinium bahamense	0
HABW150707-0 FDEP EBV005 7/6/2015	Pelican Bay Nature Park Pier (E Bay)	stero Lee	26.3584 -81.8375	07:10	0.5	27.10	30.85	2.35	7.87		
	Collected by: Volunteer(s) of EBAP; Preserved									Karenia brevis	0
Analyzed by: KellerAbbe, S. on 7/7/2015										Pseudo-nitzschia spp.	3,667
Comments: Sunny; Wind N @ 4-7 mph; Green brown water										Pyrodinium bahamense	. 0

HAB ID	Location Co	ounty	Lat/Lon	Time	Depth	Temp	Sal	DO (11)	рН	Species	cells/liter
Original ID			(DD.dddd)	(m)	(C)	(ppt)	(mg/L)			
Sample Date											
HABW150707-010 FDEP EBV006 7/6/2015	Coon Key; N of (Estero Bay)		26.4287 -81.8832	06:47	0.5	28.70	33.90	5.80	8.03		
Collec	ted by: Franklin, N. of EBAP; Preserved									Karenia brevis	0
Analyzed by: KellerAbbe, S. on 7/7/2015										Pseudo-nitzschia spp.	177,033
Com	ments: Partly cloudy; Wind NE @ 4-7 mph; Medium b	orown water								Pyrodinium bahamense	0
HABW150707-011 FDEP EBV007 7/6/2015	Mound House Dock (Estero Bay) Le		26.4462 -81.9272	07:05	0.5	30.30	32.13	4.80	8.04		
Collec	ted by: Cain, T. of EBAP; Preserved									Karenia brevis	0
	zed by : Markley, L. on 7/7/2015									Pseudo-nitzschia spp.	9,000
Com	ments: Overcast; Wind ENE @ 2-3 mph; Green brown	n water								Pyrodinium bahamense	0
HABW150707-012 FDEP EBERS2 7/6/2015	Estero River; upstream Le		26.4386 -81.8400	07:10	0.5	25.80	23.60	3.80	7.85		
	ted by: Fretwell of EBAP; Preserved									Karenia brevis	0
Analyzed by: Markley, L. on 7/7/2015 Comments: Partly cloudy; Wind E @ 0-1 mph; Green brown water										Pseudo-nitzschia spp.	1,333
										Pyrodinium bahamense	0

NOTE: Blank field = not measured

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 ≥ 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 *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 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.

