



**Fish and Wildlife Research Institute**  
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**HAB PHYTOPLANKTON REPORT**

<b>Sample Date:</b> 1/6/2014	<b>Collected By:</b> Staff	<b>Collecting Agency:</b> FDEP	<b>Analysis Date:</b> 1/7/2014	<b>FWRI Analyst:</b> Markley, Brame	<b>Sample Condition:</b> Preserved
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HAB ID Original ID	Location	County	Lat/Lon (DD.dddd)	Time (GMT)	Depth (m)	Temp (C)	Sal (ppt)	DO mg/L	pH	<i>Genus species</i>	cells/liter	Comments
HABW140107-001 FDEP EBERS 2	Estero River, upstream	Lee	26.4386 -81.8400	12:35	1.8	20.60	22.5	5.90	7.64			
										<i>Pyrodinium bahamense</i>	0	
										<i>Karenia brevis</i>	0	
HABW140107-002 FDEP EBV 001	Mantanzas Pass, Estero Bay	Lee	26.4577 -81.9532	12:24	5.0	21.50	33.4	5.60	7.80			
										<i>Karenia brevis</i>	0	
										<i>Pyrodinium bahamense</i>	0	
HABW140107-003 FDEP EBV 004	Carl Johnson Park Boat Ramp, Estero Bay	Lee	26.3936 -81.8655	12:17	1.4	22.70	33.8	7.30	8.10			
										<i>Karenia brevis</i>	0	
										<i>Pyrodinium bahamense</i>	0	
HABW140107-004 FDEP EBV 005	Pelican Bay Nature Park Pier, Estero Bay	Lee	26.3584 -81.8375	12:22	.5	22.20	33.0	7.30	7.76			
										<i>Karenia brevis</i>	0	
										<i>Pyrodinium bahamense</i>	0	
HABW140107-005 FDEP EBV 006	Coon Key, 0.85 miles N of, Estero Bay	Lee	26.4287 -81.8832	12:42	.5	21.60	30.9	8.10	7.90			
										<i>Karenia brevis</i>	0	
										<i>Pyrodinium bahamense</i>	0	

NOTE: Blank field = not measured.

HAB ID Original ID	Location	County	Lat/Lon (DD.dddd)	Time (GMT)	Depth (m)	Temp (C)	Sal (ppt)	DO mg/L	pH	Genus species	cells/liter	Comments
HABW140107-006 FDEP EBV 007	Mound House dock, Estero Bav	Lee	26.4462 -81.9272	12:25	2.5	21.70	32.2	7.00	7.80			
										<i>Karenia brevis</i>	0	
										<i>Pyrodinium bahamense</i>	0	
HABW140107-007 FDEP CHV011	Bokeelia Island, 2.2 miles N of	Lee	26.7392 -82.1664	14:20	4.0	18.50	30.7	9.10	8.08			
										<i>Pyrodinium bahamense</i>	0	
										<i>Karenia brevis</i>	0	
HABW140107-008 FDEP CHV007	Punta Gorda Boat Ramp	Charlotte	26.9092 -82.0953	12:54	2.1	20.60	28.3	6.60	7.93			
										<i>Pyrodinium bahamense</i>	0	
										<i>Karenia brevis</i>	0	
HABW140107-009 FDEP CHV009	Burnt Marina, Charlotte Harbor	Lee	26.7614 -82.0611	12:50	1.5	20.30	.	7.00	7.96			
										<i>Karenia brevis</i>	0	
										<i>Pyrodinium bahamense</i>	0	
HABW140107-010 FDEP LBV 005	Ski Alley	Charlotte	26.9111 -82.3522	12:05	1.6	19.80	.	7.80	6.85			
										<i>Karenia brevis</i>	0	
										<i>Pyrodinium bahamense</i>	0	
HABW140107-011 FDEP GSV006	Little Gasparilla Island, Gasparilla Sound	Charlotte	26.8349 -82.2909	12:40	1.8	19.90	33.8	6.70	6.89			
										<i>Karenia brevis</i>	0	
										<i>Pyrodinium bahamense</i>	0	
HABW140107-012 FDEP CHV012	Cayo Pelau, Bull Bay	Lee	26.7712 -82.2100	12:32	3.2	18.70	34.6	5.80	8.15			
										<i>Karenia brevis</i>	0	
										<i>Pyrodinium bahamense</i>	0	

NOTE: Blank field = not measured.

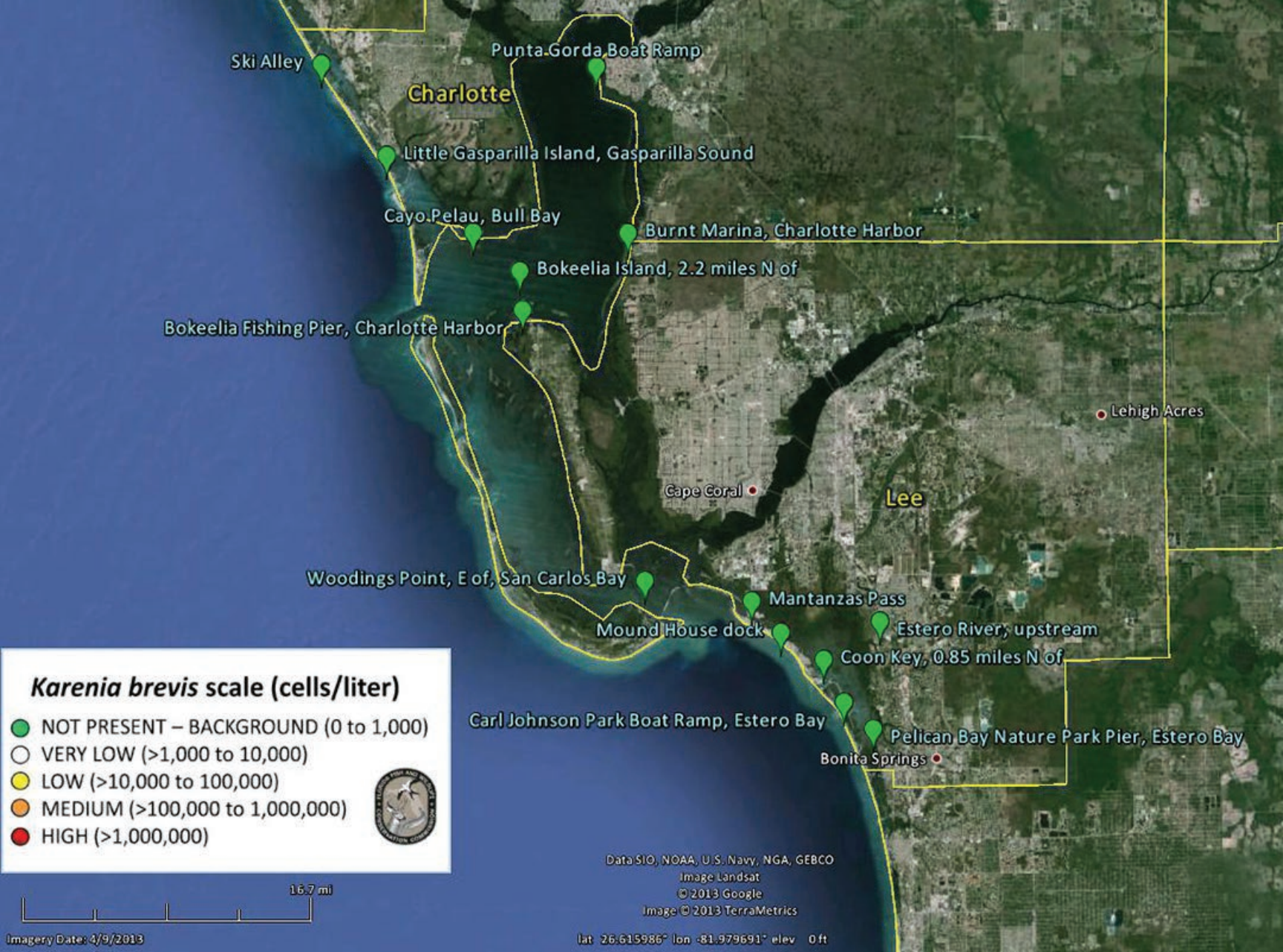
HAB ID Original ID	Location	County	Lat/Lon (DD.dddd)	Time (GMT)	Depth (m)	Temp (C)	Sal (ppt)	DO mg/L	pH	Genus species	cells/liter	Comments
HABW140107-013 FDEP CHV010	<b>Bokeelia Fishing Pier, Charlotte Harbor</b>	Charlotte	26.7067 -82.1637	13:10	1.5	19.00	33.4	8.60	8.01			
										<i>Karenia brevis</i>	0	
										<i>Pyrodinium bahamense</i>	0	
HABW140107-014 FDEP SCV002	<b>Woodings Point, E of, San Carlos Bay</b>	Lee	26.4736 -82.0464	12:55	.5	19.70	31.0	7.70	7.82			
										<i>Pyrodinium bahamense</i>	0	
										<i>Karenia brevis</i>	0	

Description	<i>Karenia brevis</i> cells/L	Possible Effects ( <i>Karenia brevis</i> only)
NOT PRESENT - BACKGROUND	0 - 1,000	None anticipated
VERY LOW	> 1,000 - 10,000	Possible respiratory irritation; shellfish harvesting closures ≥ 5,000 cells/L
LOW	> 10,000 - 100,000	Respiratory irritation; possible fish kills and bloom chlorophyll probably detected by satellites at upper range
MEDIUM	> 100,000 - 1,000,000	Respiratory irritation and probable fish kills
HIGH	> 1,000,000	As above plus 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](#) and [Pyrodinium bahamense](#). *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. For information on red tide related human health issues, please refer to the [Department of Health Aquatic Toxins Program](#).

[State-wide status reports](#) including interactive Google Maps are provided weekly by our group and [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](mailto:HABData@myFWC.com).

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.



Ski Alley

Punta Gorda Boat Ramp

Charlotte

Little Gasparilla Island, Gasparilla Sound

Cayo Pelau, Bull Bay

Burnt Marina, Charlotte Harbor

Bokeelia Island, 2.2 miles N of

Bokeelia Fishing Pier, Charlotte Harbor

Cape Coral

Lee

Lehigh Acres

Woodings Point, E of, San Carlos Bay

Mantanzas Pass

Mound House dock

Estero River, upstream

Coon Key, 0.85 miles N of

Carl Johnson Park Boat Ramp, Estero Bay

Pelican Bay Nature Park Pier, Estero Bay

Bonita Springs

### *Karenia brevis* scale (cells/liter)

- NOT PRESENT – BACKGROUND (0 to 1,000)
- VERY LOW (>1,000 to 10,000)
- LOW (>10,000 to 100,000)
- MEDIUM (>100,000 to 1,000,000)
- HIGH (>1,000,000)



Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
Image Landsat  
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lat 26.615986° lon -81.979691° elev 0 ft

Imagery Date: 4/9/2013