

Harmful Algae Report

All data between 5/4/2009 and 5/29/2009

University of Delaware Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Assawoman Bay							
<u>Roy Creek</u>							
BA01: Keenwick on Bay, Roy Creek							
	5/5/2009	9:03	Surfc	<i>Dinophysis acuminata</i> (T)		Present	0.025
	5/5/2009	9:03	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/5/2009	9:03	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/19/2009	8:50	Surfc	(Unknown) sp. (B*)	5-15 um Grn trdrp	Abundant	11.000
	5/19/2009	8:50	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	5/6/2009	9:00	Net	<i>Ceratium</i> spp. (T)			
	5/6/2009	9:00	Net	<i>Dinophysis acuminata</i> (T)			
	5/6/2009	9:00	Net	<i>Ditylum</i> spp. (T)			
	5/6/2009	9:00	Net	<i>Heterocapsa rotundata</i> (B)			
	5/6/2009	9:00	Net	<i>Rhizosolenia</i> spp. (T)			
	5/6/2009	9:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/13/2009	9:00	Net	<i>Ceratium</i> spp. (T)			
	5/13/2009	9:00	Net	<i>Ditylum</i> spp. (T)			
	5/13/2009	9:00	Net	<i>Heterocapsa triquetra</i> (B)			
	5/13/2009	9:00	Net	<i>Prorocentrum minimum</i> (T)			
	5/13/2009	9:00	Net	<i>Prorocentrum</i> sp. (T)			
	5/13/2009	9:00	Net	<i>Pseudo-nitzschia</i> spp. (T)			
	5/13/2009	9:00	Net	<i>Rhizosolenia</i> spp. (T)			
	5/13/2009	9:00	Surfc	<i>Chaetoceros</i> spp. (T)		Present	
	5/13/2009	9:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/20/2009	9:00	Net	<i>Heterosigma akashiwo</i> (T)			
	5/20/2009	9:00	Net	<i>Prorocentrum micans</i> (B)			
	5/20/2009	9:00	Net	<i>Prorocentrum</i> sp. (T)			
	5/20/2009	9:00	Net	<i>Pseudo-nitzschia</i> spp. (T)			
	5/20/2009	9:00	Net	<i>Rhizosolenia</i> spp. (T)			
	5/20/2009	9:00	Net	<i>Scrippsiella</i> sp. (B)			
	5/20/2009	9:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/20/2009	9:00	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	5/20/2009	9:00	Surfc	<i>Prorocentrum</i> sp. (T)		Present	
	5/20/2009	9:00	Surfc	<i>Rhizosolenia</i> spp. (T)		Present	
	5/29/2009	9:00	Net	<i>Prorocentrum</i> sp. (T)			
	5/29/2009	9:00	Net	<i>Pseudo-nitzschia</i> spp. (T)			
	5/29/2009	9:00	Net	<i>Rhizosolenia</i> spp. (T)			
	5/29/2009	9:00	Surfc		No HABs found		

Name subsripts: (B) - nontoxic bloom former; (B*) - nontoxic bloom former reported only at levels > 10 MC/L; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell. MC/L - Million Cells per Liter.

Abundance Levels: Not Found: Looked for, but no cells found; Very Rare: < 0.001 MC/L; Rare 0.001 - 0.01 MC/L; Present: 0.01 - 0.1 MC/L; Common: 0.1 - 1 MC/L; Many: 1 - 10 MC/L; Abundant: 10 - 100 MC/L; Very Abundant: > 100 MC/L.

University of Delaware Citizen Monitoring Program

02-Jun-09

University of Delaware SGMAS, 700 Pilottown Rd, Lewes, DE 19958 (302) 645-4252

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Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Broadkill River							
BR20: Broadkill River at Milton tidal pond							
	5/6/2009	11:25	Surfc		No HABs found		
	5/20/2009	10:15	Surfc	<i>Cylindrospermopsis (T)</i>		Common	0.688
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	5/6/2009	12:45	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
Delaware Bay							
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	5/7/2009	11:30	Surfc		No HABs found		
BR40: Canary Creek at Pilottown Rd							
	5/6/2009	9:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/6/2009	9:30	Surfc	<i>Rhizosolenia spp. (T)</i>		Present	
	5/20/2009	9:55	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	5/20/2009	9:55	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Present	
Indian River							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, marina dock							
	5/4/2009	8:38	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.325
	5/4/2009	8:38	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
	5/4/2009	8:38	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/4/2009	8:38	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/19/2009	7:40	Surfc	<i>Dinophysis acuminata (T)</i>		Present	0.012
	5/19/2009	7:40	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	0.075
	5/19/2009	7:40	Surfc	<i>Karlodinium veneficum (T)</i>		Present	0.050
	5/19/2009	7:40	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.125
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	5/4/2009	8:20	Surfc	<i>Dinophysis acuminata (T)</i>		Present	0.025
	5/18/2009	8:01	Surfc	<i>Amphidinium spp. (T)</i>		Present	
	5/18/2009	8:01	Surfc	<i>Dinophysis acuminata (T)</i>		Present	0.025
	5/18/2009	8:01	Surfc	<i>Heterosigma akashiwo (T)</i>		Many	7.900
	5/18/2009	8:01	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/18/2009	8:01	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	5/18/2009	8:01	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.800
	5/18/2009	8:01	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
<u>Indian River</u>							
IR04: Warwick Cove							
	5/4/2009	10:05	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/18/2009	9:43	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
IR07: Holt's Landing State Park							
	5/5/2009	7:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	

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Indian River							
<u>Indian River</u>							
IR07: Holt's Landing State Park	5/5/2009	7:50	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	5/19/2009	8:13	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
IR11: Pot Nets Seaside Pier	5/4/2009	10:50	Surfc		No HABs found		
	5/18/2009	11:05	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
IR20: Bay Colony	5/4/2009	8:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.112
	5/4/2009	8:05	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
IR21: Entrance to Boat House Pond, Indian River Bay	5/4/2009	7:00	Surfc		No HABs found		
	5/18/2009	7:15	Surfc		No HABs found		
IR36B: James Farm, Pasture Point	5/19/2009	9:00	Surfc	<i>Dinophysis acuminata</i> (T)		Rare	0.002
	5/19/2009	9:00	Surfc	<i>Heterocapsa triquetra</i> (B)		Rare	0.004
	5/19/2009	9:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/19/2009	9:00	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Rare	0.001
	5/19/2009	9:00	Surfc	<i>Prorocentrum minimum</i> (T)		Present	0.030
	5/19/2009	9:00	Surfc	<i>Rhizosolenia</i> spp. (T)		Rare	0.001
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.	5/22/2009	8:00	Surfc	<i>Amphidinium</i> spp. (T)		Very Rare	
	5/22/2009	8:00	Surfc	<i>Ceratium</i> spp. (T)		Rare	0.002
	5/22/2009	8:00	Surfc	<i>Dinophysis acuminata</i> (T)		Very Rare	
	5/22/2009	8:00	Surfc	<i>Prorocentrum minimum</i> (T)		Very Rare	
	5/22/2009	8:00	Surfc	<i>Prorocentrum</i> sp. (T)		Very Rare	
	5/22/2009	8:00	Surfc	<i>Pseudo-nitzschia</i> spp. (T)		Common	0.465
	5/22/2009	8:00	Surfc	<i>Rhizosolenia</i> spp. (T)		Common	0.136
<u>Vines Creek</u>							
IR38: Vines Lane	5/5/2009	8:25	Net	<i>Scrippsiella</i> sp. (B)			
	5/5/2009	8:25	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.452
	5/5/2009	8:25	Surfc	<i>Heterocapsa triquetra</i> (B)		Common	0.103
	5/5/2009	8:25	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	0.030
	5/5/2009	8:25	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/5/2009	8:25	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	0.010
	5/5/2009	8:25	Surfc	<i>Prorocentrum minimum</i> (T)		Present	0.060
	5/12/2009	8:00	Net		No HABs found		
	5/12/2009	8:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/12/2009	8:00	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/12/2009	8:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/12/2009	8:00	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/19/2009	8:15	Net	<i>Heterocapsa triquetra</i> (B)			

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Indian River							
<u>Vines Creek</u>							
IR38: Vines Lane							
	5/19/2009	8:15	Net	<i>Protoperidinium quinquecorne</i> (B)			
	5/19/2009	8:15	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	5/19/2009	8:15	Surfc	<i>Prorocentrum minimum</i> (T)		Present	0.040
	5/26/2009	7:50	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.830
	5/26/2009	7:50	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	5/26/2009	7:50	Surfc	<i>Prorocentrum micans</i> (B)		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	5/5/2009	10:15	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/5/2009	10:15	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/5/2009	10:20	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/21/2009	14:45	Surfc	<i>Dinophysis acuminata</i> (T)		Present	
	5/21/2009	14:45	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	5/21/2009	14:45	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/21/2009	14:45	Surfc	<i>Heterosigma akashiwo</i> (T)		Abundant	42.100
	5/21/2009	14:45	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/21/2009	14:45	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	5/21/2009	14:45	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.200
Little Assawoman Bay							
LA45: Fenwick Island Bayside							
	5/5/2009	8:03	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/5/2009	8:03	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/5/2009	8:03	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/19/2009	8:00	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	5/19/2009	8:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/19/2009	8:00	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<u>Assawoman Canal</u>							
LA10: Assawoman Canal @ Kent Ave Bridge							
	5/4/2009	7:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/4/2009	7:30	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/4/2009	7:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	5/18/2009	7:30	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/18/2009	7:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/18/2009	7:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	5/18/2009	7:30	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.100
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	5/18/2009	8:15	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	5/18/2009	8:15	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.112
	5/18/2009	8:15	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.425

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Little Assawoman Bay							
<u>Dirickson Creek</u>							
LA09: Dirickson Creek at Road 381 bridge.							
	5/4/2009	8:30	Surfc	(Unknown) (B*)	<10 um grn sph flag No HABs found	Abundant	24.200
	5/18/2009	8:50	Surfc				
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	5/5/2009	8:02	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/5/2009	8:02	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.125
	5/19/2009	8:19	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.100
	5/19/2009	8:19	Surfc	<i>Prorocentrum minimum</i> (T)		Many	1.240
SB10W: Russell Canal west dead end							
	5/5/2009	8:23	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.312
	5/5/2009	8:23	Surfc	<i>Prorocentrum minimum</i> (T)		Many	3.100
	5/19/2009	8:40	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.563
Rehoboth Bay							
ML: Massey's Landing							
	5/4/2009	11:07	Surfc	<i>Heterocapsa rotundata</i> (B)	No HABs found	Present	
	5/18/2009	11:20	Surfc				
RB07: West Bay Park							
	5/5/2009	8:40	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/19/2009	7:30	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	5/19/2009	7:30	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
RB54: Savage Ditch, knee deep wading sample.							
	5/21/2009	15:45	Surfc	<i>Aphanizomenon</i> spp. (T)		Many	1.750
	5/21/2009	15:45	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Abundant	27.280
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	5/4/2009	9:17	Surfc	<i>Anabaena</i> spp. (T)		Common	0.500
	5/4/2009	9:17	Surfc	<i>Oscillatoria</i> spp. (B)		Common	0.750
	5/4/2009	9:17	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/18/2009	8:40	Surfc	<i>Dinophysis acuminata</i> (T)		Present	0.025
	5/18/2009	8:40	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/18/2009	8:40	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/18/2009	8:40	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	5/18/2009	8:40	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.250
	5/18/2009	8:40	Surfc	<i>Prorocentrum minimum</i> (T)		Many	1.010
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	5/4/2009	11:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/4/2009	11:30	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/18/2009	11:42	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	5/18/2009	11:42	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	5/18/2009	11:42	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.225

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Rehoboth Bay							
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	5/18/2009	11:42	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
RB06: Guinea Creek (Winding Creek Village)							
	5/4/2009	12:00	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/18/2009	10:25	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	5/18/2009	10:25	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	5/18/2009	10:25	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.525
	5/18/2009	10:25	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.862
	5/18/2009	10:25	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
<u>Lewes - Rehoboth Canal</u>							
RB02: Lewes - Rehoboth Canal at Lewes							
	5/11/2009	8:30	Net	<i>Heterocapsa rotundata (B)</i>			
	5/11/2009	8:30	Net	<i>Karlodinium veneficum (T)</i>			
	5/11/2009	8:30	Net	<i>Rhizosolenia spp. (T)</i>			
	5/11/2009	8:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/11/2009	8:30	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	5/11/2009	8:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/18/2009	8:30	Net	<i>Heterocapsa triquetra (B)</i>			
	5/18/2009	8:30	Net	<i>Karlodinium veneficum (T)</i>			
	5/18/2009	8:30	Net	<i>Rhizosolenia spp. (T)</i>			
	5/18/2009	8:30	Surfc	<i>Rhizosolenia spp. (T)</i>		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	5/5/2009	9:20	Surfc	<i>Dinophysis acuminata (T)</i>		Present	0.012
	5/18/2009	8:58	Surfc		No HABs found		
Wagamon's Pond							
BR44: Wagamon's Pond, Milton							
	5/6/2009	11:00	Surfc	<i>Oscillatoria spp. (B)</i>		Present	
	5/20/2009	10:30	Surfc	<i>Aphanizomenon spp. (T)</i>		Present	
	5/20/2009	10:30	Surfc	<i>Lyngbya (T)</i>		Present	

Name subsripts: (B) - nontoxic bloom former; (B*) - nontoxic bloom former reported only at levels > 10 MC/L; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell. MC/L - Million Cells per Liter.

Abundance Levels: Not Found: Looked for, but no cells found; Very Rare: < 0.001 MC/L; Rare 0.001 - 0.01 MC/L; Present: 0.01 - 0.1 MC/L; Common: 0.1 - 1 MC/L; Many: 1 - 10 MC/L; Abundant: 10 - 100 MC/L; Very Abundant: > 100 MC/L.

University of Delaware Citizen Monitoring Program