

Harmful Algae Report

All data between 5/29/2010 and 6/16/2010

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							
	6/8/2010	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	6/2/2010	9:00	Net	<i>Ceratium</i> spp. (T)			
	6/2/2010	9:00	Net	<i>Chaetoceros</i> spp. (T)			
	6/2/2010	9:00	Net	<i>Heterocapsa rotundata</i> (B)			
	6/2/2010	9:00	Net	<i>Heterosigma akashiwo</i> (T)			
	6/2/2010	9:00	Net	<i>Rhizosolenia</i> spp. (T)			
	6/2/2010	9:00	Net	<i>Scrippsiella</i> sp. (B)			
	6/2/2010	9:00	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	6/2/2010	9:00	Surfc	<i>Pseudo-nitzschia</i> spp. (T)		Present	0.075
	6/2/2010	9:00	Surfc	<i>Rhizosolenia</i> spp. (T)		Present	0.050
	6/9/2010	9:00	Net	<i>Ceratium</i> spp. (T)			
	6/9/2010	9:00	Net	<i>Chaetoceros</i> spp. (T)			
	6/9/2010	9:00	Net	<i>Ditylum</i> spp. (T)			
	6/9/2010	9:00	Net	<i>Heterocapsa rotundata</i> (B)			
	6/9/2010	9:00	Net	<i>Heterosigma akashiwo</i> (T)			
	6/9/2010	9:00	Net	<i>Karlodinium veneficum</i> (T)			
	6/9/2010	9:00	Net	<i>Prorocentrum minimum</i> (T)			
	6/9/2010	9:00	Net	<i>Rhizosolenia</i> spp. (T)			
	6/9/2010	9:00	Net	<i>Scrippsiella</i> sp. (B)			
	6/9/2010	9:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/9/2010	9:00	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	6/9/2010	9:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/16/2010	9:00	Net	<i>Chaetoceros</i> spp. (T)			
	6/16/2010	9:00	Net	<i>Karlodinium veneficum</i> (T)			
	6/16/2010	9:00	Net	<i>Prorocentrum</i> sp. (T)			
	6/16/2010	9:00	Net	<i>Rhizosolenia</i> spp. (T)			
	6/16/2010	9:00	Surfc	<i>Chaetoceros</i> spp. (T)		Common	0.125
	6/16/2010	9:00	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
BR20: Broadkill River at Milton tidal pond							
	6/9/2010	7:20	Surfc		No HABs found		
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	6/10/2010	11:30	Surfc	<i>Aphanizomenon</i> spp. (T)		Common	0.562
	6/10/2010	11:30	Surfc	<i>Microcystis</i> spp. (T)		Many	1.380

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University of Delaware Citizen Monitoring Program

21-Jun-10

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							
<u>Prime Hook Creek</u>							
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	6/10/2010	11:05	Surfc		No HABs found		
<u>Red Mill Pond</u>							
BR54: Red Mill Pond outlet at Rt 1							
	6/10/2010	11:44	Surfc	<i>Aphanizomenon spp. (T)</i>		Abundant	13.800
	6/10/2010	11:44	Surfc	<i>Microcystis spp. (T)</i>		Many	7.300
Delaware Bay							
DB01: End of Cape Shores pier							
	6/9/2010	11:21	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.225
	6/9/2010	11:21	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.188
	6/9/2010	11:21	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	6/9/2010	11:21	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.125
	6/14/2010	11:06	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/14/2010	11:06	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	6/8/2010	16:31	Surfc		No HABs found		
BR40: Canary Creek at Pilottown Rd							
	6/9/2010	9:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/9/2010	9:30	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	6/9/2010	9:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/9/2010	9:30	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	6/9/2010	9:30	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
Indian River							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, marina dock							
	6/8/2010	8:14	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/8/2010	8:14	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/8/2010	8:14	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/8/2010	8:14	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	6/7/2010	7:52	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	
	6/7/2010	7:52	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.225
	6/7/2010	7:52	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	6/7/2010	7:52	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/7/2010	7:52	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.462
	6/7/2010	7:52	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	6/7/2010	7:52	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Indian River</u>							
IR04: Warwick Cove							

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Indian River							
<u>Indian River</u>							
IR04: Warwick Cove	6/7/2010	9:51	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
IR07: Holt's Landing State Park	6/8/2010	8:05	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR11: Pot Nets Seaside Pier	6/7/2010	10:40	Surfc		No HABs found		
IR20: Bay Colony	6/8/2010	8:05	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/8/2010	8:05	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/8/2010	8:05	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
IR36B: James Farm, Pasture Point By Boat	6/8/2010	8:52	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	6/8/2010	8:52	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/8/2010	8:52	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.	6/14/2010	9:42	Surfc	<i>Ceratium spp. (T)</i>		Rare	0.007
	6/14/2010	9:42	Surfc	<i>Chaetoceros spp. (T)</i>		Rare	0.002
	6/14/2010	9:42	Surfc	<i>Dinophysis acuminata (T)</i>		Very Rare	
	6/14/2010	9:42	Surfc	<i>Dinophysis norvegica (T)</i>		Very Rare	
	6/14/2010	9:42	Surfc	<i>Prorocentrum gracile (B)</i>		Very Rare	
	6/14/2010	9:42	Surfc	<i>Prorocentrum micans (B)</i>		Rare	0.001
	6/14/2010	9:42	Surfc	<i>Prorocentrum sp. (T)</i>		Rare	0.001
	6/14/2010	9:42	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Rare	0.001
	6/14/2010	9:42	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Present	0.015
	6/14/2010	9:42	Surfc	<i>Rhizosolenia spp. (T)</i>		Rare	0.003
	6/14/2010	9:42	Surfc	<i>Scrippsiella sp. (B)</i>		Rare	0.001
<u>Vines Creek</u>							
IR38: Vines Lane	6/8/2010	7:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/8/2010	7:45	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek	6/7/2010	8:55	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/7/2010	8:55	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/7/2010	8:55	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	6/7/2010	8:55	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.200
	6/7/2010	8:55	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.950
	6/14/2010	8:55	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/14/2010	8:55	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/14/2010	8:55	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/14/2010	8:55	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/14/2010	8:55	Surfc	<i>Prorocentrum minimum (T)</i>		Present	

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Indian River							
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	6/14/2010	8:55	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.680
Little Assawoman Bay							
LA45: Fenwick Island Bayside							
	6/8/2010	8:33	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/8/2010	8:33	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>Assawoman Canal</u>							
LA10: Assawoman Canal @ Kent Ave Bridge							
	6/7/2010	7:30	Surfc	<i>Amphidinium spp. (T)</i>		Present	0.012
	6/7/2010	7:30	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.575
	6/7/2010	7:30	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/7/2010	7:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/7/2010	7:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/7/2010	7:30	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	6/7/2010	7:55	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	
	6/7/2010	7:55	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/7/2010	7:55	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/7/2010	7:55	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/7/2010	7:55	Surfc	<i>Rhizosolenia spp. (T)</i>		Present	0.012
LA09: Dirickson Creek at Road 381 bridge.							
	6/7/2010	8:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.188
	6/7/2010	8:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/7/2010	8:30	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	6/7/2010	8:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/7/2010	8:30	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/7/2010	8:30	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	6/8/2010	7:47	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	0.012
	6/8/2010	7:47	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/8/2010	7:47	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	6/8/2010	7:47	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/8/2010	7:47	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/8/2010	10:25	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/8/2010	10:25	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/14/2010	7:53	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/14/2010	7:53	Surfc	<i>Chattonella subsalsa (T)</i>		Many	1.010
	6/14/2010	7:53	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/14/2010	7:53	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	

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Little Assawoman Bay							
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	6/14/2010	7:53	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
SB10W: Russell Canal west dead end							
	6/8/2010	8:03	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	0.012
	6/8/2010	8:03	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/8/2010	8:03	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/8/2010	8:03	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/8/2010	8:03	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.125
	6/8/2010	10:18	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/8/2010	10:18	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/8/2010	10:18	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/8/2010	10:18	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	6/8/2010	10:18	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	6/14/2010	7:45	Surfc	<i>Chattonella subsalsa</i> (T)		Many	1.230
	6/14/2010	7:45	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/14/2010	7:45	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/14/2010	7:45	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.138
Rehoboth Bay							
ML: Massey's Landing							
	6/7/2010	10:55	Surfc		No HABs found		
RB07: West Bay Park							
	6/8/2010	8:40	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/8/2010	8:40	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	6/7/2010	8:22	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/7/2010	8:22	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/7/2010	8:22	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/7/2010	8:22	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	6/7/2010	8:25	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/14/2010	8:24	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.112
	6/14/2010	8:24	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/14/2010	8:24	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.175
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	6/7/2010	11:20	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	0.038
	6/7/2010	11:20	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/7/2010	11:20	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.312
	6/7/2010	11:20	Surfc	<i>Prorocentrum gracile</i> (B)		Present	
RB06: Guinea Creek (Winding Creek Village)							
	6/7/2010	8:00	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	

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Rehoboth Bay							
<u>Guinea Creek</u>							
RB06: Guinea Creek (Winding Creek Village)							
	6/7/2010	8:00	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
	6/7/2010	8:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.288
	6/7/2010	8:00	Surfc	<i>Cylindrotheca closterium (B*)</i>		Abundant	16.500
	6/7/2010	8:00	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/7/2010	8:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/7/2010	8:00	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	6/8/2010	7:15	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	
	6/8/2010	7:15	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/8/2010	7:15	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.212
	6/8/2010	7:15	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	6/7/2010	8:45	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.100
	6/7/2010	8:45	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
Wagamon's Pond							
BR44: Wagamon's Pond, Milton							
	6/9/2010	11:00	Surfc	<i>Lyngbya (T)</i>		Present	

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