

Harmful Algae Report

All data between 6/11/2012 and 7/5/2012

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							
	6/19/2012	9:04	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/19/2012	9:04	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/19/2012	9:04	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	6/20/2012	8:45	Net	<i>Oscillatoria spp.</i> (B)			
	6/20/2012	8:45	Net	<i>Prorocentrum micans</i> (B)			
	6/20/2012	8:45	Net	<i>Prorocentrum scutellum</i> (B)			
	6/20/2012	8:45	Net	<i>Rhizosolenia spp.</i> (T)			
	6/20/2012	8:45	Surfc	<i>Dinophysis acuminata</i> (T)		Present	
	6/20/2012	8:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/20/2012	8:45	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/20/2012	8:45	Surfc	<i>Prorocentrum micans</i> (B)		Present	
	7/5/2012	8:55	Net	<i>Chaetoceros spp.</i> (T)			
	7/5/2012	8:55	Net	<i>Heterocapsa rotundata</i> (B)			
	7/5/2012	8:55	Net	<i>Karlodinium veneficum</i> (T)			
	7/5/2012	8:55	Net	<i>Prorocentrum scutellum</i> (B)			
	7/5/2012	8:55	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
BR20: Broadkill River at Milton tidal pond							
	6/20/2012	11:16	Surfc		No HABs found		
<u>Diamond Pond</u>							
BR48: Diamond Pond							
	6/20/2012	11:02	Surfc		No HABs found		
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	6/20/2012	12:27	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
<u>Prime Hook Creek</u>							
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	6/20/2012	12:04	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.200
	6/20/2012	12:04	Surfc	<i>Chattonella subsalsa</i> (T)		Abundant	13.900
	6/20/2012	12:04	Surfc	<i>Heterocapsa rotundata</i> (B)		Many	3.300
	6/20/2012	12:04	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
<u>Wagamon's Pond</u>							
BR44: Wagamon's Pond, Milton							
	6/28/2012	11:00	Surfc	<i>Anabaena spp.</i> (T)		Present	
	6/28/2012	11:00	Surfc	<i>Oscillatoria spp.</i> (B)		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.

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Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Delaware Bay							
DB01: End of Cape Shores pier							
	6/21/2012	8:01	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/21/2012	8:01	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/21/2012	8:01	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Canary Creek</u>							
BR40: Canary Creek at Pilottown Rd							
	6/21/2012	7:50	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/21/2012	7:50	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
Dirickson Pond							
LA38: The Hamlet at Dirickson Pond							
	6/19/2012	7:45	Surfc		No HABs found		
Indian River							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, Ocean View Marina							
	6/19/2012	8:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/19/2012	8:00	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	6/18/2012	7:45	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/18/2012	7:45	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	6/18/2012	7:45	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/18/2012	7:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/18/2012	7:45	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/18/2012	7:45	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.160
<u>Indian River</u>							
IR04: Warwick Cove							
	6/19/2012	9:15	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/19/2012	9:15	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
IR07: Holt's Landing State Park							
	6/19/2012	6:40	Surfc		No HABs found		
IR11: Pot Nets Seaside Pier							
	6/21/2012	8:22	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
IR20: Bay Colony							
	6/19/2012	7:40	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/19/2012	7:40	Surfc	<i>Heterocapsa sp.</i> (B)		Present	
	6/19/2012	7:40	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/19/2012	7:40	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore							
	6/19/2012	8:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/19/2012	8:10	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/19/2012	8:10	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							

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Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Indian River							
<u>Indian River</u>							
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	6/18/2012	8:34	Surfc	<i>Chaetoceros spp. (T)</i>		Rare	0.007
	6/18/2012	8:34	Surfc	<i>Dinophysis acuminata (T)</i>		Very Rare	
	6/18/2012	8:34	Surfc	<i>Prorocentrum micans (B)</i>		Rare	0.002
	6/18/2012	8:34	Surfc	<i>Prorocentrum minimum (T)</i>		Rare	0.001
	6/18/2012	8:34	Surfc	<i>Prorocentrum scutellum (B)</i>		Rare	0.003
	6/18/2012	8:34	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
	7/5/2012	9:25	Surfc	<i>Amphidinium spp. (T)</i>		Very Rare	
	7/5/2012	9:25	Surfc	<i>Chaetoceros spp. (T)</i>		Present	0.052
	7/5/2012	9:25	Surfc	<i>Dinophysis acuminata (T)</i>		Very Rare	
	7/5/2012	9:25	Surfc	<i>Heterocapsa rotundata (B)</i>		Rare	0.001
	7/5/2012	9:25	Surfc	<i>Karenia papilionacea (T)</i>		Rare	0.001
	7/5/2012	9:25	Surfc	<i>Prorocentrum micans (B)</i>		Very Rare	
	7/5/2012	9:25	Surfc	<i>Prorocentrum scutellum (B)</i>		Rare	0.001
	7/5/2012	9:25	Surfc	<i>Prorocentrum triestinum (B)</i>		Very Rare	
	7/5/2012	9:25	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
	7/5/2012	9:25	Surfc	<i>Scrippsiella sp. (B)</i>		Rare	0.003
<u>Vines Creek</u>							
IR38: Vines Lane							
	6/19/2012	7:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/19/2012	7:45	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	6/11/2012	8:38	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.160
	6/11/2012	8:38	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/11/2012	8:38	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/11/2012	8:38	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/11/2012	8:38	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	6/11/2012	8:38	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.200
	6/11/2012	8:38	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/11/2012	8:38	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	6/18/2012	8:05	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/18/2012	8:05	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.450
	6/18/2012	8:05	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/18/2012	8:05	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/18/2012	8:05	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.150
	6/18/2012	8:05	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/18/2012	8:05	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
	6/18/2012	8:05	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	6/18/2012	8:05	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	6/25/2012	8:12	Surfc	<i>Chattonella subsalsa (T)</i>		Present	

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Indian River							
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	6/25/2012	8:12	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/25/2012	8:12	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.160
	6/25/2012	8:12	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	6/25/2012	8:12	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	6/25/2012	8:12	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
	6/25/2012	8:12	Surfc	<i>V. small, <5 um centrics</i> (B*)		Abundant	13.200
	7/3/2012	7:40	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Many	2.900
	7/3/2012	7:40	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.560
	7/3/2012	7:40	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.390
	7/3/2012	7:40	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/3/2012	7:40	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.420
	7/3/2012	7:40	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.360
	7/3/2012	7:40	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
Little Assawoman Bay							
LA45: Fenwick Island Bayside							
	6/19/2012	7:46	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/19/2012	7:46	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Assawoman Canal</u>							
LA10: Assawoman Canal S end, Kent Ave Bridge							
	6/18/2012	7:28	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/18/2012	7:28	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	6/19/2012	7:38	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.100
	6/19/2012	7:38	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	6/19/2012	8:25	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/19/2012	8:25	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	6/19/2012	8:25	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/19/2012	8:25	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/19/2012	8:25	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	6/12/2012	8:08	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/12/2012	8:08	Surfc	<i>Chattonella subsalsa</i> (T)		Many	2.800
	6/12/2012	8:08	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	6/12/2012	8:08	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/12/2012	8:08	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/12/2012	8:08	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/19/2012	7:05	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	

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Little Assawoman Bay							
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	6/19/2012	7:05	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	6/19/2012	7:05	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	6/19/2012	7:05	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/19/2012	7:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/19/2012	7:05	Surfc	<i>Heterosigma akashiwo</i> (T)		Common	0.150
	6/19/2012	7:05	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/26/2012	7:18	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	6/26/2012	7:18	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/26/2012	7:18	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/3/2012	7:50	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.110
	7/3/2012	7:50	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/3/2012	7:50	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
SB10W: Russell Canal west dead end							
	6/12/2012	8:25	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	6/12/2012	8:25	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	6/12/2012	8:25	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/12/2012	8:25	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/12/2012	8:25	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	6/19/2012	6:58	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	6/19/2012	6:58	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/26/2012	7:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/26/2012	7:10	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/3/2012	8:05	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	7/3/2012	8:05	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	7/3/2012	8:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
Rehoboth Bay							
ML: Massey's Landing							
	6/21/2012	8:40	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	6/11/2012	7:55	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/11/2012	7:55	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.300
	6/11/2012	7:55	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	6/18/2012	8:59	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/18/2012	8:59	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/18/2012	8:59	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	6/25/2012	8:45	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	6/25/2012	8:45	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	6/25/2012	8:45	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.538
	7/3/2012	8:10	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.160

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Rehoboth Bay							
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	7/3/2012	8:10	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.600
	7/3/2012	8:10	Surfc	<i>Fibrocapsa japonica</i> (T)		Common	0.460
	7/3/2012	8:10	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/3/2012	8:10	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/3/2012	8:10	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	7/3/2012	8:10	Surfc	<i>Prorocentrum triestinum</i> (B)		Present	
	7/3/2012	8:10	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	6/21/2012	8:58	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/21/2012	8:58	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
RB06: Guinea Creek (Winding Creek Village)							
	6/19/2012	8:15	Surfc	<i>(Unknown) sp.</i> (B*)	5-15 um grn trdrp flag	Abundant	28.600
	6/19/2012	8:15	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/19/2012	8:15	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	6/19/2012	8:15	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.160
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	6/19/2012	8:55	Surfc	<i>(Unknown) sp.</i> (B*)	5-15 um grn trdrp flag	Abundant	26.400
	6/19/2012	8:55	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.100
	6/19/2012	8:55	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/19/2012	8:55	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	6/18/2012	9:40	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/18/2012	9:40	Surfc	<i>Protoperidinium quinquecorne</i> (B)		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