

Harmful Algae Report

All data between 8/29/2014 and 9/24/2014

University of Delaware Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Smpl Name Dpth	Comment if ID uncertain	Abundance	MC/L
Atlantic Ocean						
RWPM14: Tower Rd Ocean, Delaware Seashore State Park						
	9/3/2014	9:10	Surfc	<i>Dinophysis acuminata</i> (T)	Very Rare	
	9/3/2014	9:10	Surfc	<i>Ditylum spp.</i> (T)	Very Rare	
	9/3/2014	9:10	Surfc	<i>Prorocentrum scutellum</i> (B)	Very Rare	
	9/3/2014	9:10	Surfc	<i>Pseudo-nitzschia spp.</i> (T)	Rare	0.002
	9/3/2014	9:10	Surfc	<i>Rhizosolenia spp.</i> (T)	Very Rare	
	9/16/2014	9:25	Surfc	<i>Ditylum spp.</i> (T)	Very Rare	
	9/16/2014	9:25	Surfc	<i>Gyrodinium instriatum</i> (B)	Very Rare	
	9/16/2014	9:25	Surfc	<i>Karenia papilionacea</i> (T)	Rare	0.002
	9/16/2014	9:25	Surfc	<i>Karenia sp.</i> (T)	Very Rare	
	9/16/2014	9:25	Surfc	<i>Prorocentrum scutellum</i> (B)	Rare	0.002
	9/16/2014	9:25	Surfc	<i>Prorocentrum triestinum</i> (B)	Very Rare	
	9/16/2014	9:25	Surfc	<i>Scrippsiella sp.</i> (B)	Very Rare	
RWPMVIII: Town of Fenwick						
	9/3/2014	8:30	Surfc	<i>Dinophysis acuminata</i> (T)	Very Rare	
	9/3/2014	8:30	Surfc	<i>Prorocentrum triestinum</i> (B)	Very Rare	
	9/3/2014	8:30	Surfc	<i>Pseudo-nitzschia spp.</i> (T)	Very Rare	
	9/16/2014	8:35	Surfc	<i>Chaetoceros spp.</i> (T)	Rare	0.007
	9/16/2014	8:35	Surfc	<i>Karenia papilionacea</i> (T)	Very Rare	
	9/16/2014	8:35	Surfc	<i>Karenia sp.</i> (T)	Very Rare	
	9/16/2014	8:35	Surfc	<i>Prorocentrum scutellum</i> (B)	Rare	0.002
	9/16/2014	8:35	Surfc	<i>Prorocentrum triestinum</i> (B)	Very Rare	
	9/16/2014	8:35	Surfc	<i>Rhizosolenia spp.</i> (T)	Rare	0.001
Broadkill River						
BR01: Broadkill river @ PEL dock.						
	9/3/2014	8:45	Net	<i>Anabaena spp.</i> (T)		
	9/3/2014	8:45	Net	<i>Prorocentrum scutellum</i> (B)		
	9/3/2014	8:45	Net	<i>Scrippsiella sp.</i> (B)		
	9/3/2014	8:45	Surfc	<i>Heterocapsa rotundata</i> (B)	Present	
	9/10/2014	8:45	Net	<i>Heterocapsa rotundata</i> (B)		
	9/10/2014	8:45	Net	<i>Prorocentrum scutellum</i> (B)		
	9/10/2014	8:45	Surfc	<i>Heterosigma akashiwo</i> (T)	Present	
BR20: Broadkill River at Milton tidal pond						
	9/10/2014	7:10	Surfc		No HABs found	
Diamond Pond						
BR48: Diamond Pond at Spillway						
	9/10/2014	11:00	Surfc		No HABs found	
Old Mill Creek						

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
Broadkill River							
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	9/10/2014	12:00	Surfc	<i>Microcystis spp. (T)</i>		Common	0.380
<u>Prime Hook Creek</u>							
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	9/10/2014	11:35	Surfc	<i>Amphidinium spp. (T)</i>		Present	0.275
	9/10/2014	11:35	Surfc	<i>Anabaena spp. (T)</i>		Abundant	78.500
	9/10/2014	11:35	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
	9/10/2014	11:35	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.120
	9/10/2014	11:35	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	2.490
	9/10/2014	11:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Abundant	14.750
	9/10/2014	11:35	Surfc	<i>Karodinium veneficum (T)</i>		Present	
	9/10/2014	11:35	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.110
	9/10/2014	11:35	Surfc	<i>Oscillatoria spp. (B)</i>		Common	
	9/10/2014	11:35	Surfc	<i>Protoperdinium quinquecorne (B)</i>		Present	
	9/10/2014	11:35	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Wagamon's Pond</u>							
BR44: Wagamon's Pond on Northern Shoreline, Milton							
	9/10/2014	10:30	Surfc	<i>Lyngbya (T)</i>		Present	
	9/10/2014	10:30	Surfc	<i>Oscillatoria spp. (B)</i>		Present	
Delaware Bay							
DB01: End of Cape Shores pier							
	9/3/2014	8:42	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.100
	9/3/2014	8:42	Surfc	<i>Karodinium veneficum (T)</i>		Present	
	9/16/2014	9:13	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/16/2014	9:13	Surfc	<i>Karodinium veneficum (T)</i>		Present	
<u>Canary Creek</u>							
BR40: Canary Creek at Pilottown Rd							
	9/9/2014	8:56	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/9/2014	8:56	Surfc	<i>Karodinium veneficum (T)</i>		Present	
Indian River							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, Ocean View Marina							
	9/9/2014	7:30	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	
	9/9/2014	7:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/9/2014	7:30	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	9/9/2014	7:30	Surfc	<i>Karodinium veneficum (T)</i>		Present	
	9/9/2014	7:30	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	9/8/2014	7:45	Surfc	<i>Amphidinium spp. (T)</i>		Present	
	9/8/2014	7:45	Surfc	<i>Chattonella subsalsa (T)</i>		Many	7.260

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University of Delaware Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
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Indian River

Bethany Loop Canal

IR62: Loop Canal, Pa Ave terminus, Bethany Beach

9/8/2014	7:45	Surfc		<i>Chloromorom toxicum (T)</i>		Present	
9/8/2014	7:45	Surfc		<i>Kryptoperidinium foliaceum (B)</i>		Common	0.100

Indian River

IR11: Pot Nets Seaside Pier

9/8/2014	10:50	Surfc		<i>Heterocapsa rotundata (B)</i>		Present	
9/8/2014	10:50	Surfc		<i>Karlodinium veneficum (T)</i>		Present	

IR24: Iron Branch - County road 331 at bridge

9/8/2014	10:13	Surfc		<i>Gyrodinium instriatum (B)</i>		Common	0.513
9/8/2014	10:13	Surfc		<i>Heterocapsa rotundata (B)</i>		Present	
9/8/2014	10:13	Surfc		<i>Heterosigma akashiwo (T)</i>		Present	
9/8/2014	10:13	Surfc		<i>Karlodinium veneficum (T)</i>		Present	
9/8/2014	10:13	Surfc		<i>Kryptoperidinium foliaceum (B)</i>		Present	
9/8/2014	10:13	Surfc		<i>Protopteridinium quinquecorne (B)</i>		Present	
9/8/2014	10:13	Surfc		<i>Scrippsiella sp. (B)</i>		Common	0.113
9/22/2014	9:00	Surfc		<i>Gyrodinium instriatum (B)</i>		Many	4.620

IR25: Upper Indian River

9/3/2014	13:30	Surfc		<i>Gyrodinium instriatum (B)</i>		Abundant	29.040
9/3/2014	13:30	Surfc		<i>Kryptoperidinium foliaceum (B)</i>		Present	
9/3/2014	13:30	Surfc		<i>Navicula (small) (B*)</i>		Abundant	17.600
9/3/2014	13:30	Surfc		<i>Oscillatoria spp. (B)</i>		Present	
9/3/2014	13:30	Surfc		<i>Protopteridinium quinquecorne (B)</i>		Present	

IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore

9/8/2014	8:07	Surfc		<i>Chattonella subsalsa (T)</i>		Present	
9/8/2014	8:07	Surfc		<i>Kryptoperidinium foliaceum (B)</i>		Present	

IR39: North side of Inlet at Wheelchair fishing platform under new bridge.

9/9/2014	9:50	Surfc		<i>Akashiwo sanguinea (T)</i>		Very Rare	
9/9/2014	9:50	Surfc		<i>Karenia papilionacea (T)</i>		Rare	0.002
9/23/2014	8:30	Surfc		<i>Gyrodinium instriatum (B)</i>		Very Rare	
9/23/2014	8:30	Surfc		<i>Karenia papilionacea (T)</i>		Very Rare	
9/23/2014	8:30	Surfc		<i>Prorocentrum scutellum (B)</i>		Very Rare	
9/23/2014	8:30	Surfc		<i>Rhizosolenia spp. (T)</i>		Very Rare	
9/23/2014	8:30	Surfc		<i>Scrippsiella sp. (B)</i>		Very Rare	

Vines Creek

IR38: Vines Lane

9/9/2014	7:30	Surfc		<i>Heterocapsa rotundata (B)</i>		Present	
9/9/2014	7:30	Surfc		<i>Heterosigma akashiwo (T)</i>		Present	
9/9/2014	7:30	Surfc		<i>Kryptoperidinium foliaceum (B)</i>		Present	
9/9/2014	7:30	Surfc		<i>Prorocentrum scutellum (B)</i>		Rare	0.002

White Creek

IR32: Holly Terrace Acres Canal Dead End, White Creek

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Indian River							
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	9/2/2014	8:25	Surfc	<i>Chloromorom toxicum (T)</i>		Present	
	9/2/2014	8:25	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/2/2014	8:25	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	9/2/2014	8:25	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.225
	9/2/2014	8:25	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Present	
	9/8/2014	9:15	Surfc	<i>Chloromorom toxicum (T)</i>		Abundant	11.900
	9/8/2014	9:15	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.100
	9/8/2014	9:15	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/8/2014	9:15	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	9/8/2014	9:15	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	9/8/2014	9:15	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	9/15/2014	9:05	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/15/2014	9:05	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.213
	9/15/2014	9:05	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	9/15/2014	9:05	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	9/22/2014	8:28	Surfc	<i>Amphidinium spp. (T)</i>		Present	
	9/22/2014	8:28	Surfc	<i>Chloromorom toxicum (T)</i>		Present	
	9/22/2014	8:28	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.120
	9/22/2014	8:28	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	9/22/2014	8:28	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.190
	9/22/2014	8:28	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Many	3.740
	9/22/2014	8:28	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Present	
Little Assawoman Bay							
LA46: Fenwick Island Tide Gauge							
	9/9/2014	8:53	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	9/9/2014	8:53	Surfc	<i>Chloromorom toxicum (T)</i>		Present	
	9/9/2014	8:53	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<u>Assawoman Canal</u>							
LA10: Assawoman Canal S end, Kent Ave Bridge							
	9/8/2014	7:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	9/8/2014	7:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/8/2014	7:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/8/2014	7:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	9/8/2014	8:10	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.130
	9/8/2014	8:10	Surfc	<i>Chloromorom toxicum (T)</i>		Present	
	9/8/2014	8:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/8/2014	8:10	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	

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Little Assawoman Bay							
<u>Dirickson Creek</u>							
LA09: Dirickson Creek at Road 381 bridge.							
	9/8/2014	8:10	Surfc	<i>Karodinium veneficum</i> (T)		Present	
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	9/2/2014	8:28	Surfc	<i>Chloromorom toxicum</i> (T)		Many	5.280
	9/2/2014	8:28	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/2/2014	8:28	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/9/2014	7:12	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	9/9/2014	7:12	Surfc	<i>Chloromorom toxicum</i> (T)		Common	0.650
	9/9/2014	7:12	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/16/2014	7:57	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/16/2014	7:57	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	9/16/2014	7:57	Surfc	<i>Karodinium veneficum</i> (T)		Present	
	9/23/2014	7:53	Surfc	<i>Chloromorom toxicum</i> (T)		Present	
	9/23/2014	7:53	Surfc	<i>Karodinium veneficum</i> (T)		Present	
SB10W: Russell Canal west dead end							
	9/2/2014	8:34	Surfc	<i>Chloromorom toxicum</i> (T)		Many	5.720
	9/2/2014	8:34	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	9/2/2014	8:34	Surfc	<i>Karodinium veneficum</i> (T)		Present	
	9/2/2014	8:34	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	9/9/2014	7:08	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	9/9/2014	7:08	Surfc	<i>Chloromorom toxicum</i> (T)		Common	0.200
	9/9/2014	7:08	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/16/2014	8:13	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	
	9/16/2014	8:13	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/16/2014	8:13	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/16/2014	8:13	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	9/16/2014	8:13	Surfc	<i>Karodinium veneficum</i> (T)		Present	
	9/23/2014	8:10	Surfc	<i>Chloromorom toxicum</i> (T)		Present	
	9/23/2014	8:10	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	9/23/2014	8:10	Surfc	<i>Karodinium veneficum</i> (T)		Present	
	9/23/2014	8:10	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
Rehoboth Bay							
RB07: West Bay Park							
	9/9/2014	8:59	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							
	9/2/2014	7:35	Surfc	<i>Chloromorom toxicum</i> (T)		Many	3.740
	9/2/2014	7:35	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	9/2/2014	7:35	Surfc	<i>Karodinium veneficum</i> (T)		Present	
	9/2/2014	7:35	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	

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Rehoboth Bay							
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	9/2/2014	7:35	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	9/8/2014	8:20	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	
	9/8/2014	8:20	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	9/8/2014	8:20	Surfc	<i>Chloromorom toxicum</i> (T)		Many	1.080
	9/8/2014	8:20	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/8/2014	8:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/8/2014	8:20	Surfc	<i>Heterosigma akashiwo</i> (T)		Common	0.240
	9/8/2014	8:20	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.110
	9/15/2014	9:39	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	9/15/2014	9:39	Surfc	<i>Chloromorom toxicum</i> (T)		Present	
	9/15/2014	9:39	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/15/2014	9:39	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/15/2014	9:39	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	9/22/2014	8:20	Surfc	<i>Chloromorom toxicum</i> (T)		Many	1.300
	9/22/2014	8:20	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/22/2014	8:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/22/2014	8:20	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/22/2014	8:20	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.110
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	9/8/2014	11:15	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
RB06: Guinea Creek (Winding Creek Village)							
	9/8/2014	8:00	Surfc	(Unknown) sp. (B*)	5-15 um grn trdrp flag	Abundant	30.800
	9/8/2014	8:00	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.113
	9/8/2014	8:00	Surfc	<i>Chloromorom toxicum</i> (T)		Common	0.113
	9/8/2014	8:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.113
	9/8/2014	8:00	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.288
	9/8/2014	8:00	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	9/8/2014	8:37	Surfc	<i>Chloromorom toxicum</i> (T)		Common	0.180
	9/8/2014	8:37	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/8/2014	8:37	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/8/2014	8:37	Surfc	<i>Heterosigma akashiwo</i> (T)		Many	5.940
	9/8/2014	8:37	Surfc	<i>Karlodinium veneficum</i> (T)		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