

# Harmful Algae Report

All data between 9/5/2008 and 10/3/2008

University of Delaware Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Assawoman Bay</b>							
<u>Roy Creek</u>							
BA01: Keenwick on Bay, Roy Creek							
	9/9/2008	9:40	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.100
	9/9/2008	9:40	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/9/2008	9:40	Surfc	<i>Prorocentrum gracile</i> (B)		Present	
	9/9/2008	9:40	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	9/23/2008	9:13	Surfc	(Unknown) (B*)	<5 um sphr flag	Abundant	22.000
	9/23/2008	9:13	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/23/2008	9:13	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<b>Atlantic Ocean</b>							
AT041: 2 miles from IR Inlet, bearing SE							
	9/17/2008	16:50	Surfc	<i>Chaetoceros spp.</i> (T)		Rare	0.002
	9/17/2008	16:50	Surfc	<i>Prorocentrum sp.</i> (T)		Very Rare	
	9/17/2008	16:50	Surfc	<i>Rhizosolenia spp.</i> (T)		Very Rare	
AT131: 10.3 miles from IR Inlet, bearing SE							
	9/17/2008	16:22	Surfc	<i>Chaetoceros spp.</i> (T)		Rare	0.004
	9/17/2008	16:22	Surfc	<i>Karenia papilionacea</i> (T)		Very Rare	
	9/17/2008	16:22	Surfc	<i>Prorocentrum sp.</i> (T)		Very Rare	
AT17: 55 miles from IR Inlet, bearing SE							
	9/17/2008	12:00	Surfc		No HABs found		
RWPM14: Tower Rd Ocean, Delaware Seashore State Park							
	9/18/2008	12:40	Surfc	<i>Chaetoceros spp.</i> (T)		Rare	0.001
	9/18/2008	12:40	Surfc	<i>Karenia papilionacea</i> (T)		Very Rare	
	9/18/2008	12:40	Surfc	<i>Karlodinium veneficum</i> (T)		Very Rare	
	9/18/2008	12:40	Surfc	<i>Prorocentrum gracile</i> (B)		Very Rare	
	9/18/2008	12:40	Surfc	<i>Prorocentrum sp.</i> (T)		Very Rare	
	9/18/2008	12:40	Surfc	<i>Rhizosolenia spp.</i> (T)		Very Rare	
RWPM8: Cape Henlopen State Park Beach (2)							
	9/11/2008	9:05	Surfc	<i>Karenia brevis</i> (T)		Rare	0.001
	9/11/2008	9:05	Surfc	<i>Karenia papilionacea</i> (T)		Very Rare	
	9/11/2008	9:05	Surfc	<i>Rhizosolenia spp.</i> (T)		Rare	0.002
	9/15/2008	9:05	Surfc	<i>Chaetoceros spp.</i> (T)		Very Rare	
	9/15/2008	9:05	Surfc	<i>Karenia papilionacea</i> (T)		Very Rare	
	9/15/2008	9:05	Surfc	<i>Prorocentrum sp.</i> (T)		Very Rare	
	9/15/2008	9:05	Surfc	<i>Rhizosolenia spp.</i> (T)		Very Rare	
RWPM82: Fishing Pier - 100m, offshore, CHSP							
	9/25/2008	10:35	Surfc	<i>Chaetoceros spp.</i> (T)		Rare	0.003
	9/25/2008	10:35	Surfc	<i>Ditylum spp.</i> (T)		Very Rare	
	9/25/2008	10:35	Surfc	<i>Karenia papilionacea</i> (T)		Rare	0.001

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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<b>Atlantic Ocean</b>							
RWPM82: Fishing Pier - 100m, offshore, CHSP							
	9/25/2008	10:35	Surfc	<i>Prorocentrum sp. (T)</i>		Very Rare	
	9/25/2008	10:35	Surfc	<i>Rhizosolenia spp. (T)</i>		Rare	0.001
RWPMIV: Fenwick Island State Park							
	9/14/2008	16:10	Surfc	<i>Amphidinium spp. (T)</i>		Very Rare	
	9/14/2008	16:10	Surfc	<i>Ceratium spp. (T)</i>		Very Rare	
	9/14/2008	16:10	Surfc	<i>Chaetoceros spp. (T)</i>		Very Rare	
	9/14/2008	16:10	Surfc	<i>Dinophysis acuminata (T)</i>		Rare	0.001
	9/14/2008	16:10	Surfc	<i>Heterosigma akashiwo. (T)</i>		Rare	0.001
	9/14/2008	16:10	Surfc	<i>Karenia papilionacea (T)</i>		Very Rare	
	9/14/2008	16:10	Surfc	<i>Prorocentrum gracile (B)</i>		Rare	0.006
	9/14/2008	16:10	Surfc	<i>Prorocentrum sp. (T)</i>		Very Rare	
	9/18/2008	10:32	Surfc	<i>Amphidinium spp. (T)</i>		Very Rare	
	9/18/2008	10:32	Surfc	<i>Chaetoceros spp. (T)</i>		Rare	0.003
	9/18/2008	10:32	Surfc	<i>Ditylum spp. (T)</i>		Very Rare	
	9/18/2008	10:32	Surfc	<i>Karenia brevis (T)</i>		Very Rare	
	9/18/2008	10:32	Surfc	<i>Karenia papilionacea (T)</i>		Very Rare	
	9/18/2008	10:32	Surfc	<i>Prorocentrum gracile (B)</i>		Very Rare	
	9/18/2008	10:32	Surfc	<i>Prorocentrum micans (B)</i>		Very Rare	
	9/18/2008	10:32	Surfc	<i>Prorocentrum sp. (T)</i>		Rare	0.002
	9/18/2008	10:32	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
<b>Broadkill River</b>							
BR01: Broadkill river @ PEL dock.							
	9/10/2008	9:00	Net	<i>Amphidinium spp. (T)</i>			
	9/10/2008	9:00	Surfc		No HABs found		
	9/17/2008	9:00	Net		No HABs found		
	9/17/2008	9:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	9/24/2008	9:00	Net	<i>Chaetoceros spp. (T)</i>			
	9/24/2008	9:00	Net	<i>Ditylum spp. (T)</i>			
	9/24/2008	9:00	Net	<i>Prorocentrum sp. (T)</i>			
	9/24/2008	9:00	Net	<i>Rhizosolenia spp. (T)</i>			
	9/24/2008	9:00	Surfc	<i>Amphidinium spp. (T)</i>		Present	
	9/24/2008	9:00	Surfc	<i>Chaetoceros spp. (T)</i>		Rare	0.007
	9/24/2008	9:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/24/2008	9:00	Surfc	<i>Karenia papilionacea (T)</i>		Very Rare	
	9/24/2008	9:00	Surfc	<i>Prorocentrum sp. (T)</i>		Present	
	9/24/2008	9:00	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
	10/1/2008	9:00	Net	<i>Chaetoceros spp. (T)</i>			
	10/1/2008	9:00	Net	<i>Karlodinium veneficum (T)</i>			
	10/1/2008	9:00	Net	<i>Prorocentrum sp. (T)</i>			
	10/1/2008	9:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
BR20: Broadkill River at Milton tidal pond							
	9/10/2008	7:15	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	

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**Broadkill River**

BR20: Broadkill River at Milton tidal pond

9/24/2008	8:30	Surfc			No HABs found		
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Old Mill Creek

BR21: Old Mill Creek downstream from Red Mill Pond

9/10/2008	12:37	Surfc		(Unknown) sp. (B*)	5-15 um Grn trdrp	Abundant	24.200
9/10/2008	12:37	Surfc		Cylindrospermopsis (T)		Abundant	72.600
9/10/2008	12:37	Surfc		Kryptoperidinium foliaceum (B)		Present	
9/10/2008	12:37	Surfc		Microcystis spp. (T)		Many	3.500
9/10/2008	12:37	Surfc		Protoperidinium quinquecorne (B)		Present	
9/24/2008	12:35	Surfc		(Unknown) sp. (B*)	5-15 um Grn trdrp	Abundant	13.000
9/24/2008	12:35	Surfc		Heterocapsa rotundata (B)		Present	
9/24/2008	12:35	Surfc		Heterosigma akashiwo. (T)		Common	0.125
9/24/2008	12:35	Surfc		Karlodinium veneficum (T)		Present	
9/24/2008	12:35	Surfc		Kryptoperidinium foliaceum (B)		Common	0.100

Prime Hook Creek

BR02: Prime Hook NWR Petersfield Ditch water control structure, 50m N of Rt 16.

9/10/2008	11:42	Surfc		Cylindrotheca closterium (B*)		Abundant	37.400
9/10/2008	11:42	Surfc		Heterosigma akashiwo. (T)		Present	
9/10/2008	11:42	Surfc		Kryptoperidinium foliaceum (B)		Present	
9/10/2008	11:42	Surfc		Protoperidinium quinquecorne (B)		Present	

BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters

9/10/2008	12:06	Surfc		Anabaena spp. (T)		Many	1.000
9/10/2008	12:06	Surfc		Cylindrospermopsis (T)		Many	4.310
9/10/2008	12:06	Surfc		Kryptoperidinium foliaceum (B)		Common	0.125
9/10/2008	12:06	Surfc		Microcystis spp. (T)		Many	1.750
9/10/2008	12:06	Surfc		Oscillatoria spp. (B)		Common	0.188

**Delaware Bay**

Canary Creek

BR19: Canary Creek at New Road

9/24/2008	10:52	Surfc		Heterosigma akashiwo. (T)		Many	1.225
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BR40: Canary Creek at Pilottown Rd

9/10/2008	14:44	Surfc		Heterocapsa rotundata (B)		Present	
9/24/2008	9:50	Surfc		Chaetoceros spp. (T)		Very Rare	
9/24/2008	9:50	Surfc		Karenia papilionacea (T)		Present	
9/24/2008	9:50	Surfc		Prorocentrum micans (B)		Very Rare	
9/24/2008	9:50	Surfc		Rhizosolenia spp. (T)		Very Rare	

**Indian River**

Assawoman Canal

IR50: Assawoman Canal at N end, marina dock

9/8/2008	9:18	Surfc		Akashiwo sanguineum (B)		Present	
9/8/2008	9:18	Surfc		Amphidinium spp. (T)		Present	
9/8/2008	9:18	Surfc		Heterocapsa rotundata (B)		Present	
9/8/2008	9:18	Surfc		Heterosigma akashiwo. (T)		Present	

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**Indian River**

Assawoman Canal

IR50: Assawoman Canal at N end, marina dock

9/8/2008	9:18	Surfc		<i>Karlodinium veneficum (T)</i>		Present	
9/22/2008	9:17	Surfc		<i>Chattonella cf. verruculosa (T)</i>		Present	
9/22/2008	9:17	Surfc		<i>Heterocapsa rotundata (B)</i>		Present	
9/22/2008	9:17	Surfc		<i>Karlodinium veneficum (T)</i>		Present	
9/22/2008	9:17	Surfc		<i>Kryptoperidinium foliaceum (B)</i>		Present	

Bethany Loop Canal

IR62: Loop Canal, Pa Ave terminus, Bethany Beach

9/8/2008	8:53	Surfc		<i>Chattonella cf. verruculosa (T)</i>		Present	
9/8/2008	8:53	Surfc		<i>Heterocapsa rotundata (B)</i>		Present	
9/8/2008	8:53	Surfc		<i>Heterosigma akashiwo. (T)</i>		Present	
9/22/2008	8:43	Surfc		<i>Chattonella cf. verruculosa (T)</i>		Many	8.800
9/22/2008	8:43	Surfc		<i>Chattonella subsalsa (T)</i>		Common	0.113
9/22/2008	8:43	Surfc		<i>Fibrocapsa japonica (T)</i>		Common	0.463
9/22/2008	8:43	Surfc		<i>Gyrodinium instriatum (B)</i>		Present	
9/22/2008	8:43	Surfc		<i>Heterocapsa rotundata (B)</i>		Many	2.500
9/22/2008	8:43	Surfc		<i>Heterosigma akashiwo. (T)</i>		Present	
9/22/2008	8:43	Surfc		<i>Karlodinium veneficum (T)</i>		Many	1.400
9/22/2008	8:43	Surfc		<i>Kryptoperidinium foliaceum (B)</i>		Present	
9/22/2008	8:43	Surfc		<i>Protopteridinium quinquecorne (B)</i>		Present	

IR64: Bethany Beach canal off dead end at 3rd street East of Evans Rd.

9/8/2008	9:04	Surfc		<i>Chattonella subsalsa (T)</i>		Common	0.212
9/8/2008	9:04	Surfc		<i>Fibrocapsa japonica (T)</i>		Common	0.525
9/8/2008	9:04	Surfc		<i>Heterocapsa rotundata (B)</i>		Present	
9/8/2008	9:04	Surfc		<i>Heterosigma akashiwo. (T)</i>		Present	
9/8/2008	9:04	Surfc		<i>Karlodinium veneficum (T)</i>		Present	
9/8/2008	9:04	Surfc		<i>Protopteridinium quinquecorne (B)</i>		Present	
9/22/2008	8:56	Surfc		<i>Akashiwo sanguineum (B)</i>		Present	
9/22/2008	8:56	Surfc		<i>Amphidinium spp. (T)</i>		Present	
9/22/2008	8:56	Surfc		<i>Chattonella cf. verruculosa (T)</i>		Abundant	13.000
9/22/2008	8:56	Surfc		<i>Chattonella subsalsa (T)</i>		Present	
9/22/2008	8:56	Surfc		<i>Heterocapsa rotundata (B)</i>		Present	
9/22/2008	8:56	Surfc		<i>Karlodinium veneficum (T)</i>		Present	
9/22/2008	8:56	Surfc		<i>Kryptoperidinium foliaceum (B)</i>		Present	
9/22/2008	8:56	Surfc		<i>Protopteridinium quinquecorne (B)</i>		Present	

Indian River

IR04: Warwick Cove

9/8/2008	10:00	Surfc			No HABs found		
9/22/2008	10:00	Surfc			No HABs found		

IR07: Holt's Landing State Park

9/9/2008	8:58	Surfc		<i>Amphidinium spp. (T)</i>		Present	
9/9/2008	8:58	Surfc		<i>Heterocapsa rotundata (B)</i>		Present	

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<b>Indian River</b>							
<u>Indian River</u>							
IR07: Holt's Landing State Park	9/9/2008	8:58	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/23/2008	8:52	Surfc		No HABs found		
IR11: Pot Nets Seaside Pier	9/8/2008	7:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/22/2008	11:54	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
IR20: Bay Colony	9/8/2008	8:30	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/8/2008	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/22/2008	8:15	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
IR21: Entrance to Boat House Pond, Indian River Bay	9/8/2008	7:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/8/2008	7:30	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/8/2008	7:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/22/2008	7:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/22/2008	7:10	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
IR36B: James Farm, Pasture Point	9/9/2008	9:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/9/2008	9:20	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/9/2008	9:20	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/30/2008	9:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/30/2008	9:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/30/2008	9:05	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/30/2008	9:05	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/30/2008	9:05	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.	9/11/2008	8:15	Net	<i>Chaetoceros</i> spp. (T)			
	9/11/2008	8:15	Net	<i>Ditylum</i> spp. (T)			
	9/11/2008	8:15	Net	<i>Lyngbya</i> (T)			
	9/11/2008	8:15	Net	<i>Prorocentrum</i> sp. (T)			
	9/11/2008	8:15	Surfc	<i>Chaetoceros</i> spp. (T)		Very Rare	
	9/11/2008	8:15	Surfc	<i>Karenia papilionacea</i> (T)		Very Rare	
	9/11/2008	8:15	Surfc	<i>Prorocentrum</i> sp. (T)		Very Rare	
	9/15/2008	8:15	Surfc	<i>Amphidinium</i> spp. (T)		Very Rare	
	9/15/2008	8:15	Surfc	<i>Ceratium</i> spp. (T)		Very Rare	
	9/15/2008	8:15	Surfc	<i>Chaetoceros</i> spp. (T)		Very Rare	
	9/15/2008	8:15	Surfc	<i>Heterocapsa rotundata</i> (B)		Very Rare	
	9/15/2008	8:15	Surfc	<i>Karlodinium veneficum</i> (T)		Rare	0.002
	9/15/2008	8:15	Surfc	<i>Prorocentrum gracile</i> (B)		Rare	0.001
	9/15/2008	8:15	Surfc	<i>Prorocentrum micans</i> (B)		Very Rare	
	9/15/2008	8:15	Surfc	<i>Prorocentrum</i> sp. (T)		Rare	0.001
	9/25/2008	9:35	Surfc	<i>Ceratium</i> spp. (T)		Very Rare	

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<b>Indian River</b>							
<u>Indian River</u>							
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	9/25/2008	9:35	Surfc	<i>Chaetoceros spp. (T)</i>		Rare	0.002
	9/25/2008	9:35	Surfc	<i>Ditylum spp. (T)</i>		Very Rare	
	9/25/2008	9:35	Surfc	<i>Karenia papilionacea (T)</i>		Very Rare	
	9/25/2008	9:35	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
<u>Vines Creek</u>							
IR38: Vines Lane							
	9/9/2008	8:45	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.140
	9/9/2008	8:45	Surfc	<i>Dinophysis acuminata (T)</i>		Present	
	9/9/2008	8:45	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/9/2008	8:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Many	2.200
	9/9/2008	8:45	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
	9/9/2008	8:45	Surfc	<i>Heterosigma akashiwo. (T)</i>		Many	3.700
	9/9/2008	8:45	Surfc	<i>Karlodinium veneficum (T)</i>		Many	1.180
	9/9/2008	8:45	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	9/23/2008	8:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/23/2008	8:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.125
	9/23/2008	8:30	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/23/2008	8:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	9/23/2008	8:30	Surfc	<i>V. small, &lt;5 um centrics (B*)</i>		Abundant	33.000
	9/30/2008	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/30/2008	8:00	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.100
	9/30/2008	8:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	9/9/2008	10:47	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/9/2008	10:47	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.113
IR59: White Creek - west prong near Food Lion							
	9/9/2008	8:40	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/9/2008	8:40	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	9/9/2008	8:40	Surfc	<i>Cryptomonad (an Order) spp. (B*)</i>		Abundant	28.600
	9/9/2008	8:40	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	9/9/2008	8:40	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.138
	9/9/2008	8:40	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	9/9/2008	8:40	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
IR60A: Ocean View; E Branch of White Creek							
	9/8/2008	9:28	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	9/8/2008	9:28	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/8/2008	9:28	Surfc	<i>Protopteridinium quinquecorne (B)</i>		Present	

### Little Assawoman Bay

LA04: Virginia Avenue Canal, Fenwick Island

\*\*\*Fish Kill\*\*\* 9/19/2008 15:30 Surfc *Amphidinium spp. (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

03-Oct-08

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
<b>Little Assawoman Bay</b>							
LA04: Virginia Avenue Canal, Fenwick Island							
***Fish Kill***	9/19/2008	15:30	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Many	3.700
	9/19/2008	15:30	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	9/19/2008	15:30	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/19/2008	15:30	Surfc	<i>Heterosigma akashiwo</i> . (T)		Abundant	37.200
	9/19/2008	15:30	Surfc	<i>Karlodinium veneficum</i> (T)		Many	1.300
	9/19/2008	15:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	
LA45: Fenwick Island Bayside							
	9/9/2008	8:03	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/9/2008	8:03	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	9/23/2008	9:45	Surfc	(Unknown) (B*)	<5 um spheres	Abundant	44.000
	9/23/2008	9:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
<u>Assawoman Canal</u>							
LA10: Assawoman Canal @ Kent Ave Bridge							
	9/8/2008	8:15	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/8/2008	8:15	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/8/2008	8:15	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	9/22/2008	8:15	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/22/2008	8:15	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/22/2008	8:15	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	9/8/2008	8:55	Surfc	"Gymnodinioid" sp. (S)	10-15 um Grn	Present	
	9/8/2008	8:55	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.150
	9/22/2008	8:47	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/22/2008	8:47	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.113
	9/22/2008	8:47	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.113
	9/22/2008	8:47	Surfc	<i>V. small, &lt;5 um centrics</i> (B*)		Abundant	33.000
LA09: Dirickson Creek at Road 381 bridge.							
	9/8/2008	9:26	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/8/2008	9:26	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/8/2008	9:26	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.100
	9/8/2008	9:26	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/8/2008	9:26	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	9/22/2008	9:30	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.163
	9/22/2008	9:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/22/2008	9:30	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/22/2008	9:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/22/2008	9:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
LA20: Swann Keys: boat ramp at S end of Blue Teal Rd							
	9/9/2008	9:24	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.100
	9/9/2008	9:24	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	9/9/2008	9:24	Surfc	<i>Fibrocapsa japonica</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**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Little Assawoman Bay</b>							
<u>Dirickson Creek</u>							
LA20: Swann Keys: boat ramp at S end of Blue Teal Rd							
	9/9/2008	9:24	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Jefferson Creek</u>							
SB07: Layton Canal, South Bethany							
	9/9/2008	8:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/9/2008	8:45	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	9/9/2008	8:45	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	9/23/2008	7:40	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.125
	9/23/2008	7:40	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	9/23/2008	7:40	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.100
	9/23/2008	7:40	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
SB10E: Russell Canal east dead end							
	9/9/2008	9:10	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/9/2008	9:10	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	9/9/2008	9:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.175
	9/9/2008	9:10	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/9/2008	9:10	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	9/9/2008	9:10	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	9/23/2008	8:40	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/23/2008	8:40	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
SB10W: Russell Canal west dead end							
	9/9/2008	9:15	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/9/2008	9:15	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/9/2008	9:15	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	9/23/2008	8:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>Miller Creek</u>							
LA31: Double Bridges road bridge at Plantation Park							
	9/9/2008	8:25	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/9/2008	8:25	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.100
	9/9/2008	8:25	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/9/2008	8:25	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/9/2008	8:25	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.138
	9/9/2008	8:25	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<u>Williams Creek</u>							
LA21: Williams Creek tributary, bridge on Rd 364a							
	9/10/2008	8:15	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Abundant	43.800
	9/10/2008	8:15	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/10/2008	8:15	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.113
	9/10/2008	8:15	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.138
	9/22/2008	9:13	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.200
	9/22/2008	9:13	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	

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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**



Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Little Assawoman Bay</b>							
<u>Williams Creek</u>							
LA21: Williams Creek tributary, bridge on Rd 364a							
	9/22/2008	9:13	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<b>Rehoboth Bay</b>							
ML: Massey's Landing							
	9/8/2008	11:35	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/8/2008	11:35	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/22/2008	12:15	Surfc	<i>Amphidinium</i> spp. (T)		Present	
	9/22/2008	12:15	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/22/2008	12:15	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
RB07: West Bay Park							
	9/9/2008	8:35	Surfc	<i>Amphidinium</i> spp. (T)		Present	
	9/9/2008	8:35	Surfc	<i>Heterosigma akashiwo.</i> (T)		Present	
	9/9/2008	8:35	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/23/2008	8:30	Surfc	(Unknown) (B*)	<5 um sphr flag	Abundant	44.000
	9/23/2008	8:30	Surfc	(Unknown) (B*)	<5 um spheres	Abundant	22.000
	9/23/2008	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Arnell Creek</u>							
AC2S: DNREC Site, Arnell Creek, surface sample							
	9/11/2008	11:40	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	9/11/2008	11:40	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/11/2008	11:40	Surfc	<i>Heterosigma akashiwo.</i> (T)		Present	
	9/11/2008	11:40	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/16/2008	13:50	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/16/2008	13:50	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/16/2008	13:50	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/16/2008	13:50	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.113
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
***Fish Kill***	9/17/2008	18:10	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/17/2008	18:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.880
	9/17/2008	18:10	Surfc	<i>Heterosigma akashiwo.</i> (T)		Present	
	9/17/2008	18:10	Surfc	<i>Karlodinium veneficum</i> (T)		Many	1.100
	9/17/2008	18:10	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
RB64: Torquay Canal, west side of Land's End near UD Site #1							
***Fish Kill***	9/17/2008	18:05	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/17/2008	18:05	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	9/17/2008	18:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/17/2008	18:05	Surfc	<i>Heterosigma akashiwo.</i> (T)		Many	3.500
	9/17/2008	18:05	Surfc	<i>Karlodinium veneficum</i> (T)		Many	2.200
	9/17/2008	18:05	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Many	1.300
RB69: Torquay Canal DNREC site. TC1							
	9/11/2008	12:17	Surfc	<i>Chattonella subsalsa</i> (T)		Present	

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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**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Rehoboth Bay</b>							
<u>Bald Eagle Creek</u>							
RB69: Torquay Canal DNREC site. TC1							
	9/11/2008	12:17	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/11/2008	12:17	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/11/2008	12:17	Surfc	<i>Heterosigma akashiwo</i> . (T)		Very Abundant	180.000
	9/11/2008	12:17	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/11/2008	12:17	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.288
	9/11/2008	12:17	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	9/16/2008	14:20	Surfc	(Unknown) (B*)	<10 um oval grn flag	Abundant	33.000
	9/16/2008	14:20	Surfc	(Unknown) sp. (B*)	5-15 um Grn trdrp	Abundant	13.200
	9/16/2008	14:20	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/16/2008	14:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Many	2.500
	9/16/2008	14:20	Surfc	<i>Heterosigma akashiwo</i> . (T)		Many	4.800
	9/16/2008	14:20	Surfc	<i>Karlodinium veneficum</i> (T)		Many	4.600
	9/16/2008	14:20	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	
	9/16/2008	14:20	Surfc	<i>Navicula (small)</i> (B*)		Abundant	33.000
	9/16/2008	14:20	Surfc	<i>V. small, &lt;5 um centrics</i> (B*)		Abundant	15.400
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	9/8/2008	11:55	Surfc	<i>Amphidinium spp.</i> (T)		Present	
	9/8/2008	11:55	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/8/2008	11:55	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	9/8/2008	11:55	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/8/2008	11:55	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.100
	9/22/2008	12:35	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/22/2008	12:35	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
RB06: Guinea Creek (Winding Creek Village)							
	9/8/2008	8:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/8/2008	8:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.175
	9/8/2008	8:00	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.113
	9/8/2008	8:00	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	9/8/2008	8:00	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	9/8/2008	8:00	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.113
	9/22/2008	7:30	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.212
	9/22/2008	7:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.188
	9/22/2008	7:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
RB06A: Guinea Creek @ Rd 298 Bridge							
	9/8/2008	12:22	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	9/8/2008	12:22	Surfc	<i>Oscillatoria spp.</i> (B)		Common	0.250
	9/22/2008	12:55	Surfc	(Unknown) sp. (B*)	5-15 um Grn trdrp	Abundant	11.000
	9/22/2008	12:55	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Many	1.040
	9/22/2008	12:55	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	9/22/2008	12:55	Surfc	<i>Heterocapsa rotundata</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**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Rehoboth Bay</b>							
<u>Guinea Creek</u>							
RB06A: Guinea Creek @ Rd 298 Bridge							
	9/22/2008	12:55	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/22/2008	12:55	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
<u>Lewes - Rehoboth Canal</u>							
RB02: Lewes - Rehoboth Canal at Lewes							
	9/8/2008	8:30	Net	<i>Oscillatoria</i> spp. (B)			
	9/8/2008	8:30	Surfc		No HABs found		
	9/15/2008	8:30	Net	<i>Ceratium</i> spp. (T)			
	9/15/2008	8:30	Net	<i>Chaetoceros</i> spp. (T)			
	9/15/2008	8:30	Net	<i>Prorocentrum</i> sp. (T)			
	9/15/2008	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/22/2008	8:35	Net	<i>Chaetoceros</i> spp. (T)			
	9/22/2008	8:35	Net	<i>Heterocapsa rotundata</i> (B)			
	9/22/2008	8:35	Net	<i>Karlodinium veneficum</i> (T)			
	9/22/2008	8:35	Net	<i>Prorocentrum</i> sp. (T)			
	9/22/2008	8:35	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/29/2008	8:30	Net	<i>Heterocapsa rotundata</i> (B)			
	9/29/2008	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	9/9/2008	10:10	Surfc	(Unknown) sp. (B*)	5-15 um Grn trdrp	Very Abundant	180.000
	9/9/2008	10:10	Surfc	<i>Chattonella</i> cf. <i>verruculosa</i> (T)		Present	
	9/9/2008	10:10	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/9/2008	10:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/9/2008	10:10	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/9/2008	10:10	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/9/2008	10:10	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
RLC2S: DNREC site, upper Love Creek							
	9/11/2008	11:05	Surfc	(Unknown) sp. (B*)	5-15 um Grn trdrp	Abundant	22.000
	9/11/2008	11:05	Surfc	<i>Chattonella</i> cf. <i>verruculosa</i> (T)		Present	
	9/11/2008	11:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/11/2008	11:05	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/11/2008	11:05	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	9/16/2008	12:40	Surfc	(Unknown) sp. (B*)	5-15 um Grn trdrp	Abundant	15.400
	9/16/2008	12:40	Surfc	<i>Amphidinium</i> spp. (T)		Present	
	9/16/2008	12:40	Surfc	<i>Chattonella</i> cf. <i>verruculosa</i> (T)		Common	0.275
	9/16/2008	12:40	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/16/2008	12:40	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/16/2008	12:40	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.125

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**