

Harmful Algae Report

All data between 6/16/2017 and 6/30/2017

University of Delaware Citizen Monitoring Program

Water Body <u>Tributary</u> Site	Date	Time	Sample Depth	Name	Comment if ID uncertain	Abundance	MC/L
Atlantic Ocean							
RWPM8: Cape Henlopen State Park Beach (2)							
	6/26/2017	10:10	Surfc	<i>Ditylum spp. (T)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
RWPMII: Town of Bethany							
	6/19/2017	7:58	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum micans (B)</i>		Present	
Broadkill River							
<u>Broadkill River</u>							
BR01: Broadkill river @ PEL dock.							
	6/21/2017	9:50	Net	<i>"Gymnodinioid" sp. (S)</i>	25-40 um Grn		
				<i>Heterosigma akashiwo (T)</i>			
				<i>Karlodinium veneficum (T)</i>			
				<i>Prorocentrum minimum (T)</i>			
			Surfc	<i>"Gymnodinioid" sp. (S)</i>	25-40 um Grn	Present	
				<i>Chaetoceros spp. (T)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
				<i>Prorocentrum triestinum (B)</i>		Present	
	6/28/2017	8:50	Net	<i>Dinophysis acuminata (T)</i>			
				<i>Heterocapsa rotundata (B)</i>			
				<i>Karlodinium veneficum (T)</i>			
				<i>Prorocentrum triestinum (B)</i>			
			Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Prorocentrum triestinum (B)</i>		Present	
BR20: Broadkill River at Milton tidal pond							
	6/28/2017	11:32	Surfc	<i>Anabaena spp. (T)</i>		Common	0.750
				<i>Ceratium spp. (T)</i>		Present	
				<i>Microcystis spp. (T)</i>		Many	1.750
<u>Diamond Pond</u>							
BR48: Diamond Pond at Spillway							
	6/28/2017	7:45	Surfc	<i>Anabaena spp. (T)</i>		Many	2.375
				<i>Aphanizomenon spp. (T)</i>		Many	1.250
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	6/28/2017	10:21	Surfc	<i>Microcystis spp. (T)</i>		Abundant	16.500
				<i>Protoperdinium quinquecorne (B)</i>		Present	
<u>Red Mill Pond</u>							
BR54: Red Mill Pond outlet at Rt 1							
	6/28/2017	11:58	Surfc	<i>Anabaena spp. (T)</i>		Common	0.750
				<i>Aphanizomenon spp. (T)</i>		Many	1.250
				<i>Microcystis spp. (T)</i>		Abundant	48.400
Delaware Bay							
<u>Canary Creek</u>							

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Delaware Bay							
<u>Canary Creek</u>							
BR40: Canary Creek at Pilottown Rd							
	6/28/2017	8:24	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
Indian River							
<u>Indian River</u>							
IR02a: Rosedale crabbing pier							
	6/26/2017	9:48	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	
				<i>Gyrodinium instriatum</i> (B)		Present	
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
IR11: Pot Nets Seaside Pier							
	6/26/2017	10:27	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
IR24: Iron Branch - County road 331 at bridge							
	6/26/2017	9:17	Surfc	<i>Gyrodinium instriatum</i> (B)		Many	3.300
				<i>Heterosigma akashiwo</i> (T)		Present	
				<i>Kryptoperidinium foliaceum</i> (B)		Present	
				<i>Scrippsiella</i> sp. (B)		Present	
IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore							
	6/27/2017	7:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.113
				<i>Heterosigma akashiwo</i> (T)		Present	
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	6/23/2017	8:40	Surfc	"Gymnodinioid" sp. (S)	25-40 um Grn	Present	
				"Gymnodinioid" sp. (S)	10-15 um Grn	Present	
				<i>Ceratium pentagonum</i> (B)		Rare	0.004
				<i>Dinophysis acuminata</i> (T)		Present	
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Heterocapsa triquetra</i> (B)		Rare	
				<i>Heterosigma akashiwo</i> (T)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum micans</i> (B)		Present	0.018
				<i>Prorocentrum minimum</i> (T)		Rare	
				<i>Prorocentrum triestinum</i> (B)		Present	
				<i>Protoperidinium quinquecorne</i> (B)		Rare	
				<i>Pseudo-nitzschia</i> spp. (T)		Rare	0.007
				<i>Scrippsiella</i> sp. (B)		Rare	
<u>Vines Creek</u>							
IR38: Vines Lane							
	6/27/2017	8:15	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	6/19/2017	8:30	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
				<i>Chloromorrum toxicum</i> (T)		Present	
				<i>Gyrodinium instriatum</i> (B)		Common	0.500
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Heterosigma akashiwo</i> (T)		Common	0.125
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Kryptoperidinium foliaceum</i> (B)		Common	0.125
				<i>Peridinium</i> sp. (B)	25um flat green	Common	0.213
				<i>Prorocentrum triestinum</i> (B)		Present	

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Indian River							
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	6/19/2017	8:30	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.250
				<i>Scrippsiella sp. (B)</i>		Common	0.188
	6/26/2017	8:35		<i>Gyrodinium instriatum (B)</i>		Common	0.300
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Common	0.475
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Kryptoperidinium foliaceum (B)</i>		Present	
				<i>Protoperidinium quinquecorne (B)</i>		Present	
Little Assawoman Bay							
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	6/27/2017	6:34	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
				<i>Kryptoperidinium foliaceum (B)</i>		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	6/27/2017	7:20	Surfc	<i>Chloromorom toxicum (T)</i>		Many	3.960
				<i>Gyrodinium instriatum (B)</i>		Abundant	12.100
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Kryptoperidinium foliaceum (B)</i>		Many	1.100
				<i>Protoperidinium quinquecorne (B)</i>		Present	
				<i>Scrippsiella sp. (B)</i>		Present	
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	6/20/2017	7:55	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
				<i>Pleurochrysis carterae (B*)</i>		Abundant	12.100
				<i>Protoperidinium quinquecorne (B)</i>		Present	
	6/27/2017	7:14		<i>Chattonella subsalsa (T)</i>		Common	0.288
				<i>Chloromorom toxicum (T)</i>		Common	0.213
				<i>Fibrocapsa japonica (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Protoperidinium quinquecorne (B)</i>		Present	
SB10W: Russell Canal west dead end							
	6/20/2017	8:15	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Protoperidinium quinquecorne (B)</i>		Present	
	6/27/2017	7:08		<i>Chattonella subsalsa (T)</i>		Common	0.563
				<i>Chloromorom toxicum (T)</i>		Present	
				<i>Fibrocapsa japonica (T)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Protoperidinium quinquecorne (B)</i>		Present	
<u>Little Assawoman Bay</u>							
LA46: Fenwick Island Tide Gauge							
	6/27/2017	10:49	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Protoperidinium quinquecorne (B)</i>		Present	
Rehoboth Bay							

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Rehoboth Bay							
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	6/19/2017	9:41	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.150
				<i>Chloromorom toxicum</i> (T)		Present	
				<i>Gyrodinium instriatum</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Kryptoperidinium foliaceum</i> (B)		Present	
				<i>Scrippsiella</i> sp. (B)		Present	
	6/27/2017	9:47		<i>Chattonella subsalsa</i> (T)		Common	0.688
				<i>Heterosigma akashiwo</i> (T)		Present	
<u>Guinea Creek</u>							
RB06: Guinea Creek (Winding Creek Village)							
	6/26/2017	7:33	Surfc	<i>Chloromorom toxicum</i> (T)		Present	
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Peridinium</i> sp. (B)	25um flat green	Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	6/27/2017	11:13	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.288
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Heterosigma akashiwo</i> (T)		Present	
				<i>Kryptoperidinium foliaceum</i> (B)		Present	
				<i>Navicula (small)</i> (B*)		Abundant	13.200
Rehoboth Beach							
<u>Lake Gerar</u>							
RL10: Lake Gerar bridge							
	6/20/2017	11:07	Surfc	<i>Scenedesmus</i> sp. (B*)		Abundant	11.000
	6/26/2017	14:25		<i>Aphanizomenon</i> spp. (T)		Common	
RL11: Lake Gerar, outlet to ocean							
	6/20/2017	11:18	Surfc	<i>Scenedesmus</i> sp. (B*)		Abundant	17.600
<u>Silver Lake</u>							
RL01: Silver Lake, Lake Drive Bridge							
	6/20/2017	11:30	Surfc	<i>Aphanizomenon</i> spp. (T)		Very Abundant	114.400
	6/26/2017	15:00		<i>Aphanizomenon</i> spp. (T)		Very Abundant	238.000
RL04: Silver Lake, outlet to ocean							
	6/20/2017	11:38	Surfc	<i>Aphanizomenon</i> spp. (T)		Abundant	94.600

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