

Harmful Algae Report

All data between 9/1/2017 and 9/22/2017

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							
RWPM14: Tower Rd Ocean, Delaware Seashore State Park							
	9/7/2017	10:00	Surfc	<i>Rhizosolenia spp. (T)</i>		Rare	
	9/13/2017	14:00		<i>Chaetoceros spp. (T)</i>		Rare	
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Prorocentrum triestinum (B)</i>		Present	
				<i>Rhizosolenia spp. (T)</i>		Rare	
	9/21/2017	10:15		"Gymnodinioid" sp. (S)	10-15 um Grn	Rare	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Rare	
				<i>Prorocentrum triestinum (B)</i>		Rare	
				<i>Scrippsiella sp. (B)</i>		Rare	
Broadkill River							
<u>Broadkill River</u>							
BR01: Broadkill river @ PEL dock.							
	9/6/2017	8:50	Net	<i>Heterocapsa rotundata (B)</i>			
				<i>Karlodinium veneficum (T)</i>			
				<i>Rhizosolenia spp. (T)</i>			
			Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
				<i>Heterocapsa triquetra (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum triestinum (B)</i>		Present	
	9/13/2017	8:45	Net	<i>Heterocapsa rotundata (B)</i>			
				<i>Heterosigma akashiwo (T)</i>			
				<i>Karlodinium veneficum (T)</i>			
				<i>Prorocentrum triestinum (B)</i>			
				<i>Scrippsiella sp. (B)</i>			
			Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
	9/20/2017	8:50	Net	"Gymnodinioid" sp. (S)	25-40 um Grn		
				<i>Heterocapsa rotundata (B)</i>			
				<i>Heterosigma akashiwo (T)</i>			
				<i>Karlodinium veneficum (T)</i>			
				<i>Prorocentrum triestinum (B)</i>			
				<i>Rhizosolenia spp. (T)</i>			
			Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
BR20: Broadkill River at Milton tidal pond							
	9/13/2017	6:22	Surfc	<i>Aphanizomenon spp. (T)</i>		Common	
				<i>Microcystis spp. (T)</i>		Many	2.250
<u>Diamond Pond</u>							
BR48: Diamond Pond at Spillway							
	9/13/2017	7:50	Surfc		No HABs found		

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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.

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Water Body Tributary Site	Date	Time	Sample Depth	Name	Comment if ID uncertain	Abundance	MC/L
Broadkill River							
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	9/13/2017	9:39	Surfc	<i>Aphanizomenon spp. (T)</i>		Many	2.000
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Kryptoperidinium foliaceum (B)</i>		Common	0.100
				<i>Microcystis spp. (T)</i>		Abundant	44.000
<u>Red Mill Pond</u>							
BR54: Red Mill Pond outlet at Rt 1							
	9/13/2017	10:30	Surfc	<i>(Unknown) (B*)</i>	Thin cyano straight	Abundant	57.200
				<i>Aphanizomenon spp. (T)</i>		Many	3.250
				<i>Microcystis spp. (T)</i>		Abundant	74.800
Delaware Bay							
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	9/12/2017	9:30	Surfc	<i>(Unknown) sp. (B*)</i>	5-10 um Obl/Grn	Abundant	11.000
				<i>Heterosigma akashiwo (T)</i>		Present	
BR40: Canary Creek at Pilottown Rd							
	9/6/2017	6:52	Surfc	<i>"Gymnodinioid" sp. (S)</i>	25-40 um Grn	Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Rhizosolenia spp. (T)</i>		Present	
	9/12/2017	7:21		<i>Karlodinium veneficum (T)</i>		Present	
				<i>Microcystis spp. (T)</i>		Common	0.375
<u>Delaware Bay</u>							
DB01: End of Cape Shores pier							
	9/1/2017	8:50	Surfc	<i>Heterocapsa lanceolata (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum triestinum (B)</i>		Present	
				<i>Rhizosolenia spp. (T)</i>		Present	
	9/5/2017	8:41		<i>Fibrocapsa japonica (T)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum triestinum (B)</i>		Present	
				<i>Rhizosolenia spp. (T)</i>		Present	
Indian River							
<u>Indian River</u>							
IR02a: Rosedale crabbing pier							
	9/11/2017	10:15	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	
				<i>Gyrodinium instriatum (B)</i>		Many	8.140
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Kryptoperidinium foliaceum (B)</i>		Present	
				<i>Scrippsiella sp. (B)</i>		Present	
	9/18/2017	13:03		<i>Akashiwo sanguinea (T)</i>		Present	
				<i>Cochlodinium sp. (T)</i>		Present	
				<i>Gyrodinium instriatum (B)</i>		Common	0.500
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Kryptoperidinium foliaceum (B)</i>		Common	0.163
				<i>Prorocentrum triestinum (B)</i>		Present	

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Indian River							
<u>Indian River</u>							
IR02a: Rosedale crabbing pier	9/18/2017	13:03	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
				<i>Scrippsiella sp.</i> (B)		Present	
IR11: Pot Nets Seaside Pier	9/11/2017	11:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Heterosigma akashiwo</i> (T)		Present	
				<i>Prorocentrum triestinum</i> (B)		Present	
IR24: Iron Branch - County road 331 at bridge	9/11/2017	9:47	Surfc	(Unknown) sp. (B*)	5-10 um Obl/Grn	Abundant	11.000
IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore	9/12/2017	7:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Kryptoperidinium foliaceum</i> (B)		Present	
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.	9/6/2017	8:32	Surfc	<i>Heterocapsa rotundata</i> (B)		Rare	
				<i>Prorocentrum scutellum</i> (B)		Rare	
				<i>Rhizosolenia spp.</i> (T)		Rare	
<u>Pepper Creek</u>							
IR51: Pepper Creek, Creekside	9/12/2017	8:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Abundant	13.860
				<i>Kryptoperidinium foliaceum</i> (B)		Present	
		9:50		<i>Gyrodinium instriatum</i> (B)		Abundant	24.860
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Heterosigma akashiwo</i> (T)		Common	0.375
				<i>Kryptoperidinium foliaceum</i> (B)		Present	
<u>Vines Creek</u>							
IR38: Vines Lane	9/12/2017	8:30	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
				<i>Heterosigma akashiwo</i> (T)		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek	9/6/2017	8:08	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
				<i>Gyrodinium instriatum</i> (B)		Many	8.360
				<i>Kryptoperidinium foliaceum</i> (B)		Many	1.540
				<i>Scrippsiella sp.</i> (B)		Common	0.250
	9/11/2017	9:08		<i>Gyrodinium instriatum</i> (B)		Many	8.140
				<i>Kryptoperidinium foliaceum</i> (B)		Many	2.200
				<i>Protoperidinium quinquecorne</i> (B)		Present	
				<i>Scrippsiella sp.</i> (B)		Present	
Little Assawoman Bay							
<u>Dirickson Creek</u>							
LA03: Mulberry Landing	9/11/2017	7:13	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	
				<i>Gyrodinium instriatum</i> (B)		Present	
				<i>Kryptoperidinium foliaceum</i> (B)		Present	
				<i>Protoperidinium quinquecorne</i> (B)		Present	
LA09: Dirickson Creek at Road 381 bridge.	9/11/2017	7:52	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.113
				<i>Kryptoperidinium foliaceum</i> (B)		Present	

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Little Assawoman Bay							
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	9/5/2017	7:16	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
				<i>Chattonella subsalsa (T)</i>		Present	
				<i>Gyrodinium instriatum (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Scrippsiella sp. (B)</i>		Present	
	9/12/2017	7:58		<i>Chattonella subsalsa (T)</i>		Common	0.188
				<i>Chloromorun toxicum (T)</i>		Common	0.100
				<i>Gyrodinium instriatum (B)</i>		Common	0.688
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Kryptoperidinium foliaceum (B)</i>		Common	0.125
SB10W: Russell Canal west dead end							
	9/5/2017	7:12	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
				<i>Gyrodinium instriatum (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
	9/12/2017	8:12		<i>Chattonella subsalsa (T)</i>		Common	0.150
				<i>Chloromorun toxicum (T)</i>		Present	
				<i>Gyrodinium instriatum (B)</i>		Many	3.080
<u>Little Assawoman Bay</u>							
LA46: Fenwick Island Tide Gauge							
	9/12/2017	10:37	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
Rehoboth Bay							
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	9/6/2017	8:46	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
				<i>Gyrodinium instriatum (B)</i>		Many	2.200
				<i>Kryptoperidinium foliaceum (B)</i>		Present	
				<i>Prorocentrum triestinum (B)</i>		Present	
				<i>Scrippsiella sp. (B)</i>		Present	
	9/11/2017	10:20		<i>Gyrodinium instriatum (B)</i>		Common	0.188
				<i>Kryptoperidinium foliaceum (B)</i>		Common	0.113
				<i>Scrippsiella sp. (B)</i>		Present	
<u>Guinea Creek</u>							
RB06: Guinea Creek (Winding Creek Village)							
	9/11/2017	7:28	Surfc	<i>Chloromorun toxicum (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	9/12/2017	10:35	Surfc	<i>(Unknown) sp. (B*)</i>	5-10 um Obl/Grn	Abundant	13.200
				<i>Gyrodinium instriatum (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Present	

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