

Harmful Algae Report

Delaware Inland Bays Citizen Monitor Program

All data from 6/28/03

Water Body	Tributary	Site	Date	Name	Comment if ID uncertain	Abundance	MCL
Assawoman Canal							
		IR50: Assawoman Canal at N end, marina dock					
			6/29/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			6/29/03	<i>Chattonella cf. verruculosa (T)</i>		Present	
			6/29/03	<i>Gyrodinium instriatum (B)</i>		Present	
			6/29/03	<i>Heterosigma akashiwo. (T)</i>		Present	
			7/ 7/03	<i>Chattonella cf. verruculosa (T)</i>		Present	
			7/ 7/03	<i>Chattonella subsalsa (T)</i>		Present	
			7/ 7/03	<i>Heterocapsa rotundata (B)</i>		Present	
			7/ 7/03	<i>Heterosigma akashiwo. (T)</i>		Present	
		LA10: BB: Assawoman Canal @ Kent Ave Bridge					
			6/28/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			6/29/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			6/29/03	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
			7/ 7/03	<i>Chattonella cf. verruculosa (T)</i>		Present	
			7/ 7/03	<i>Heterocapsa rotundata (B)</i>		Present	
Indian River							
		IR04: Warwick Cove					
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			6/30/03	<i>Prorocentrum minimum (T)</i>		Present	
			7/10/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	
			7/10/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	
			7/10/03	<i>Gyrodinium instriatum (B)</i>		Present	
			7/10/03	<i>Heterocapsa rotundata (B)</i>		Abundant	22.50
			7/10/03	<i>Heterocapsa rotundata (B)</i>		Very Abundant	145.00
			7/10/03	<i>Heterosigma akashiwo. (T)</i>		Common	
			7/10/03	<i>Heterosigma akashiwo. (T)</i>		Common	
			7/10/03	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
			7/10/03	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
			7/10/03	<i>Prorocentrum minimum (T)</i>		Common	
			7/10/03	<i>Scrippsiella sp. (B)</i>		Present	
			7/11/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			7/11/03	<i>Heterocapsa rotundata (B)</i>		Common	
		IR07: Holt's Landing State Park					
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	
			6/30/03	<i>Heterocapsa rotundata (B)</i>		Many	6.00
			7/ 7/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			7/ 7/03	<i>Akashiwo sanguineum (B)</i>		Present	
			7/ 7/03	<i>Chattonella cf. verruculosa (T)</i>		Present	
			7/ 7/03	<i>Gyrodinium instriatum (B)</i>		Present	
			7/ 7/03	<i>Heterocapsa rotundata (B)</i>		Common	0.24
			7/ 7/03	<i>Heterosigma akashiwo. (T)</i>		Present	

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Indian River							
		IR07:	Holt's Landing State Park				
			7/ 7/03	<i>Prorocentrum minimum</i> (T)		Present	
		IR11:	Big Ditch Point				
			6/30/03	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Present	
			6/30/03	<i>Heterocapsa rotundata</i> (B)		Present	
		IR20:	Bay Colony				
			6/30/03	<i>Chaetoceros</i> sp. (T)		Present	
			6/30/03	<i>Heterocapsa rotundata</i> (B)		Present	
		IR36B:	James Farm, Pasture Point				
			7/ 6/03	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Present	
			7/ 6/03	<i>Heterocapsa rotundata</i> (B)		Common	
		IR5S:	DNREC site, Upper Indian River				
			7/ 2/03	" <i>Gymnodinoid</i> " sp. (S)	10-15 um Grn	Present	
		IRB5W:	shellfish site, upper Indian River Bay				
			7/ 2/03	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Present	
			7/ 2/03	<i>Heterocapsa rotundata</i> (B)		Common	0.13
			7/ 2/03	<i>Kryptoperidium foliaceum-1</i> (B)		Present	
		<u>Pepper Creek</u>					
		IP2S:	DNREC site, upper Pepper Creek				
			7/ 2/03	" <i>Gymnodinoid</i> " sp. (S)	10-15 um Grn	Present	
			7/ 2/03	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Common	
			7/ 2/03	<i>Gyrodinium uncatenum</i> (B)		Common	0.28
			7/ 2/03	<i>Heterosigma akashiwo</i> . (T)		Present	
			7/ 2/03	<i>Kryptoperidium foliaceum-2</i> (B)		Present	
			7/ 2/03	<i>Scrippsiella</i> sp. (B)		Common	0.10
		<u>White Creek</u>					
		IR32:	Holly Terrace Acres				
			6/30/03	<i>Heterosigma akashiwo</i> . (T)		Present	
		Lewes - Rehoboth Canal					
		RB02:	Lewes - Rehoboth Canal at Lewes				
			7/ 1/03	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Common	
			7/ 1/03	<i>Heterosigma akashiwo</i> . (T)		Present	
			7/ 7/03	<i>Heterocapsa rotundata</i> (B)		Present	
		Little Assawoman Bay					
		LA2W:	DNREC site in the Little Assawoman Bay; whole water column sample				
			7/ 7/03	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Present	
			7/ 7/03	<i>Heterocapsa rotundata</i> (B)		Present	
		LA42:	Narrows Beach, off of Rt. 1 south of South Bethany knee deep wading				
			6/30/03	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Present	
		<u>Dirickson Creek</u>					
		LA03:	Mulberry Landing				
			6/30/03	<i>Heterocapsa rotundata</i> (B)		Present	
			7/ 7/03	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Present	
			7/ 7/03	<i>Chattonella cf. verruculosa</i> (T)		Present	
		LA09:	Dirickson Creek at Road 381 bridge.				

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Little Assawoman Bay							
<u>Dirickson Creek</u>							
		LA09:		Dirickson Creek at Road 381 bridge.			
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			6/30/03	<i>Chattonella cf. verruculosa (T)</i>		Present	
			6/30/03	<i>Gyrodinium uncatenum (B)</i>		Present	
			6/30/03	<i>Heterosigma akashiwo. (T)</i>		Very Abundant	150.00
			6/30/03	<i>Kryptoperidium foliaceum-1 (B)</i>		Present	
			7/ 7/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	
			7/ 7/03	<i>Heterosigma akashiwo. (T)</i>		Present	
		LA20:		Swann Keys: boat ramp at S end of Blue Teal Rd			
			6/29/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	
			6/29/03	<i>Chattonella cf. verruculosa (T)</i>		Common	0.42
			6/29/03	<i>Chattonella subsalsa (T)</i>		Present	
			6/29/03	<i>Gyrodinium instriatum (B)</i>		Common	0.13
			6/29/03	<i>Heterocapsa rotundata (B)</i>		Present	
			6/29/03	<i>Heterosigma akashiwo. (T)</i>		Present	
			6/29/03	<i>Protoperidinium quinquecorne (B)</i>		Common	
			7/ 7/03	<i>Chattonella cf. verruculosa (T)</i>		Present	
			7/ 7/03	<i>Chattonella subsalsa (T)</i>		Common	0.21
			7/ 7/03	<i>Heterocapsa rotundata (B)</i>		Present	
			7/ 7/03	<i>Heterosigma akashiwo. (T)</i>		Present	
			7/ 7/03	<i>Protoperidinium quinquecorne (B)</i>		Present	
		LA6S:		DNREC site downstream from bridge at road 381; surface sample			
			7/ 7/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			7/ 7/03	<i>Chattonella cf. verruculosa (T)</i>		Present	
			7/ 7/03	<i>Gyrodinium instriatum (B)</i>		Present	
			7/ 7/03	<i>Heterosigma akashiwo. (T)</i>		Present	
<u>Jefferson Creek</u>							
		JC08B:		SB, Jefferson Creek Basin between Assawoman canal extensions, access by boat only; by boat			
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15 um Clear	Present	
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15 um Grn	Present	
			6/30/03	<i>Chattonella cf. verruculosa (T)</i>		Common	0.13
			6/30/03	<i>Gyrodinium instriatum (B)</i>		Present	
		SB10E:		SB: Russell Canal east dead end			
			6/28/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			6/28/03	<i>Chattonella cf. verruculosa (T)</i>		Present	
			6/28/03	<i>Gyrodinium instriatum (B)</i>		Common	0.17
			6/28/03	<i>Gyrodinium uncatenum (B)</i>		Present	
			6/28/03	<i>Heterocapsa rotundata (B)</i>		Present	
			6/28/03	<i>Kryptoperidium foliaceum-1 (B)</i>		Present	
			6/28/03	<i>Pleurochrysis carterae (B)</i>		Present	
			7/ 7/03	<i>Heterocapsa rotundata (B)</i>		Present	
			7/11/03	<i>Heterocapsa rotundata (B)</i>		Present	

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Little Assawoman Bay							
<u>Jefferson Creek</u>							
		SB10E:	SB: Russell Canal east dead end				
			7/11/03	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
		SB10W:	SB: Russell Canal west dead end				
			6/28/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			6/28/03	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
			6/28/03	<i>Pleurochrysis carterae (B)</i>		Common	0.60
			7/ 7/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	
			7/ 7/03	<i>Chattonella cf. verruculosa (T)</i>		Present	6.40
			7/ 7/03	<i>Chattonella cf. verruculosa (T)</i>		Many	5.50
			7/ 7/03	<i>Fibrocapsa japonica (T)</i>		Present	
			7/ 7/03	<i>Gyrodinium instriatum (B)</i>		Present	
			7/ 7/03	<i>Gyrodinium uncatenum (B)</i>		Present	
			7/ 7/03	<i>Heterosigma akashiwo. (T)</i>		Present	
			7/ 7/03	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
			7/ 8/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	
			7/ 8/03	<i>Chattonella cf. verruculosa (T)</i>		Many	2.70
<u>Miller Creek</u>							
		LA5S:	DNREC site near Sassafras landing; surface sample				
			7/ 7/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			7/ 7/03	<i>Chattonella cf. verruculosa (T)</i>		Present	
			7/ 7/03	<i>Heterocapsa rotundata (B)</i>		Many	1.00
			7/ 7/03	<i>Heterosigma akashiwo. (T)</i>		Present	
<u>Williams Creek</u>							
		LA21:	Williams Creek tributary, bridge on Rd 364a				
			6/30/03	<i>Heterocapsa rotundata (B)</i>		Present	
			6/30/03	<i>Heterosigma akashiwo. (T)</i>		Present	
			6/30/03	<i>Kryptoperidium foliaceum-2 (B)</i>		Abundant	40.00
			7/ 7/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			7/ 7/03	<i>Heterosigma akashiwo. (T)</i>		Present	
Rehoboth Bay							
		RB50:	Delaware Seashore State Park at New Road; knee deep wading sample.				
			7/ 8/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.10
			7/ 8/03	<i>Heterocapsa rotundata (B)</i>		Common	0.25
			7/ 8/03	<i>Heterosigma akashiwo. (T)</i>		Present	
			7/ 8/03	<i>Prorocentrum minimum (T)</i>		Present	
<u>Arnell Creek</u>							
		AC2S:	DNREC Site, Arnell Creek, surface sample				
			7/ 2/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.22
			7/ 2/03	<i>Chaetoceros sp. (T)</i>		Common	
			7/ 2/03	<i>Gyrodinium instriatum (B)</i>		Present	
			7/ 2/03	<i>Heterocapsa rotundata (B)</i>		Common	0.50
<u>Bald Eagle Creek</u>							
		RB47B:	Bald Eagle Creek - by boat				

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Rehoboth Bay							
	<u>Bald Eagle Creek</u>						
	RB47B: Bald Eagle Creek - by boat						
			7/ 2/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.30
			7/ 2/03	<i>Chattonella subsalsa (T)</i>		Present	
			7/ 2/03	<i>Gyrodinium instriatum (B)</i>		Common	0.22
			7/ 2/03	<i>Heterocapsa rotundata (B)</i>		Common	
			7/ 2/03	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
	<u>Guinea Creek</u>						
	RB05: Mouth of Guinea Creek (Pot Nets Creekside)						
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.11
			6/30/03	<i>Heterocapsa rotundata (B)</i>		Present	
	RB06: Guinea Creek (Winding Creek Village)						
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.45
			6/30/03	<i>Akashiwo sanguineum (B)</i>		Present	
			6/30/03	<i>Gyrodinium instriatum (B)</i>		Present	
			6/30/03	<i>Kryptoperidium foliaceum-1 (B)</i>		Present	
	RB06A: Guinea Creek @ Rd 298 Bridge						
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			6/30/03	<i>Heterosigma akashiwo. (T)</i>		Present	
			6/30/03	<i>Prorocentrum minimum (T)</i>		Present	
	<u>Herring Creek</u>						
	RB04: Herring Creek, Mid-Section						
			6/29/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			6/29/03	<i>Chattonella cf. verruculosa (T)</i>		Present	
			6/29/03	<i>Heterocapsa rotundata (B)</i>		Common	
			6/29/03	<i>Heterosigma akashiwo. (T)</i>		Present	
			6/29/03	<i>Kryptoperidium foliaceum-1 (B)</i>		Present	
	RB40: Burton Prong						
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.47
			6/30/03	<i>Heterocapsa rotundata (B)</i>		Present	
			6/30/03	<i>Heterosigma akashiwo. (T)</i>		Present	
	<u>Love Creek</u>						
	RB34: Love Creek at Rt 24 Bridge						
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
			6/30/03	<i>Chaetoceros sp. (T)</i>		Common	
			6/30/03	<i>Gyrodinium instriatum (B)</i>		Present	
			6/30/03	<i>Kryptoperidium foliaceum-1 (B)</i>		Present	
			6/30/03	<i>Prorocentrum minimum (T)</i>		Present	
	RLC1W: shellfish site, mouth of Love Creek.						
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	
			6/30/03	<i>"Gymnodinioid" sp. (S)</i>	15-20 um Clear	Present	
			6/30/03	<i>Akashiwo sanguineum (B)</i>		Present	
			6/30/03	<i>Chaetoceros sp. (T)</i>		Common	
			6/30/03	<i>Heterocapsa rotundata (B)</i>		Present	

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Rehoboth Bay							
	<u>Love Creek</u>						
		RLC1W: shellfish site, mouth of Love Creek.					
		6/30/03		<i>Prorocentrum minimum</i> (T)		Common	
		7/ 2/03		" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Common	0.32
		7/ 2/03		<i>Chaetoceros</i> sp. (T)		Common	
		7/ 2/03		<i>Heterocapsa rotundata</i> (B)		Common	0.15
		7/ 2/03		<i>Prorocentrum minimum</i> (T)		Present	
		7/ 2/03		<i>Scrippsiella</i> sp. (B)		Present	
		7/ 7/03		" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Many	1.10
		7/ 7/03		<i>Akashiwo sanguineum</i> (B)		Present	
		7/ 7/03		<i>Gyrodinium instriatum</i> (B)		Present	
		7/ 7/03		<i>Heterocapsa rotundata</i> (B)		Many	2.00
		7/ 7/03		<i>Kryptoperidium foliaceum-2</i> (B)		Present	
		7/ 7/03		<i>Scrippsiella</i> sp. (B)		Present	
		RLC2S: DNREC site, upper Love Creek					
		7/ 2/03		" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Present	
		7/ 2/03		<i>Chaetoceros</i> sp. (T)		Present	
		7/ 2/03		<i>Gyrodinium instriatum</i> (B)		Many	2.60
		7/ 2/03		<i>Heterocapsa rotundata</i> (B)		Common	0.38
		7/ 2/03		<i>Heterosigma akashiwo</i> . (T)		Present	
		7/ 2/03		<i>Kryptoperidium foliaceum-1</i> (B)		Present	
		7/ 2/03		<i>Scrippsiella</i> sp. (B)		Present	
	<u>Torquay Canal</u>						
		RB46B: Torquay Canal by boat					
		7/ 2/03		" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Common	0.25
		7/ 2/03		<i>Chattonella subsalsa</i> (T)		Present	
		7/ 2/03		<i>Gyrodinium instriatum</i> (B)		Common	0.43
		7/ 2/03		<i>Gyrodinium uncatenum</i> (B)		Present	
		7/ 2/03		<i>Heterocapsa rotundata</i> (B)		Common	
		7/ 2/03		<i>Kryptoperidium foliaceum-1</i> (B)		Present	

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