

Country	Event No.			Duration(Start)			Duration(End)			Continuous days	Locatio of occurrence		Monitoring date		Causative species(*1)	Maximum density (cells·inds./mL)	Fishery damage			Environmental parameters (*4)			Size of bloom (km ²)		
	Pref. code	Year	No.	Year	Month	day	Year	Month	day		Sub-area	Spot	Date	Time			Fish/Shellfish species	Quantity	Economic loss	Temp. (°C)	Salinity	DO (mg/L)			
Institute of Marine Biology FEB RAS Center of	AB	1991	1	1991	7	8	1991	8	12	36	Amurskii Bay	Amurskii Bay			<i>Prorocentrum minimum</i>	7,600									
	AB	1993	1	1993	11	19	?	?	?	<7	Amurskii Bay	Amurskii Bay			<i>Chattonella sp.</i>	800									
	AB	1996	1	1996	2	28	1996	2	28	29	Amurskii Bay	Amurskii Bay			<i>Heterosigma akashiwo</i>	1,000					-1.0- 1.0	33.0- 34.0			
	AB	1996	2	1996	7	2	1996	7	16	15	Amurskii Bay	Amurskii Bay			<i>Noctiluca scintillans</i>	1.6					17.0- 20.0	28.0- 30.0			
	AB	1996	3	1996	7	8	1996	8	30	31	Amurskii Bay	Amurskii Bay			<i>Chaetoceros affinis</i>	1,900					19.0- 23.0	27.0- 28.0			
	AB	1996	4	1996	7	22	1996	8	30	40	Amurskii Bay	Amurskii Bay			<i>Skeletonema costatum</i>	12,700					20.0- 23.0	27.0- 30.0			
	AB	1996	5	1996	8	5	1996	8	12	8	Amurskii Bay	Amurskii Bay			<i>Chaetoceros curvisetum</i>	1,500					20.0- 21.0	25.0- 27.0			
	AB	1996	6	1996	11	4	1996	12	16	43	Amurskii Bay	Amurskii Bay			<i>Leptocylindrus minimus</i>	1,900					1.0- 7.0	34.0- 35.0			
	AB	1997	1	1997	5	4	1997	6	4	32	Amurskii Bay	Amurskii Bay			<i>Chaetoceros contortus</i>	1,300					11.0- 12.0	29.0- 30.0			
	AB	1997	2	1997	7	29	?	?	?	<7	Amurskii Bay	Amurskii Bay			<i>Thalassiosira mala</i>	3,000					23.0	24.0			
	AB	1997	3	1997	8	19	1997	8	28	10	Amurskii Bay	Amurskii Bay			<i>Protoceratium reticulatum</i>	0.4					20.0- 23.0	24.0- 28.0			
	AB	1997	4	1997	10	17	1997	11	3	18	Amurskii Bay	Amurskii Bay			<i>Karenia mikimotoi</i>	7.2					5.0- 11.0	33.0- 35.0			
	AB	1998	1	1998	1	26	1998	2	17	23	Amurskii Bay	Amurskii Bay			<i>Thalassiosira nordenskioldii</i>	1,100					-2.0 - -0.5	34.0- 35.0			
	AB	1998	2	1998	3	5	1998	3	12	8	Amurskii Bay	Amurskii Bay			<i>Plagioselmis sp.</i>	1,100					-1.0 - -0.8	33.0			
	ANB	2001	1	2001	8	13						Aniva Bay	Aniva Bay			<i>Heterosigma akashiwo</i>	7.0								
	VB	2001	1	2001	8	16	2001				>12	Vostok Bay	Vostok Bay			<i>Skeletonema costatum</i>	5,250					22.4-23.5	28.6		
	VB	2001	2	2001	9	30	2001				?	Vostok Bay	Vostok Bay			<i>Asterionellopsis glacialis</i>	1,191					14.7	33.6		
	VB	2002	1	2002	7	14	2002				?	Vostok Bay	Vostok Bay			<i>Chattonella globosa</i>	0.6					16.4	32.1		
	VB	2003	1	2003	4	23	2003				?	Vostok Bay	Vostok Bay			<i>Heterocapsa rotundata</i>	1,426					6.2	33.4		
	AB	2004	1	2004	11	17	?	?	?	<7	Amurskii Bay	Amurskii Bay			<i>Chaetoceros salsaugineus</i>	1,600					5.0	33.0			
	AB	2005	1	2005	7	12	?	?	?	<7	Amurskii Bay	Amurskii Bay			<i>Euglena pascheri</i>	1,500					(1.7)	35.0			
	AB	2005	2	2005	10	20	?	?	?	<5	Amurskii Bay	Amurskii Bay			<i>Prorocentrum minimum</i>	100.0					12.0	33.0			
	VB	2005	1	2005	9	1	2005				?	Vostok Bay	Vostok Bay			<i>Heterosigma akashiwo</i>	161.0					20.3			
	AB	2006	1	2006	6	5	2006	7	3	29	Amurskii Bay	Amurskii Bay			<i>Thalassionema nitzschioides</i>	2,000					13.0- 20.0	20.0- 29.0			
	AB	2006	2	2006	7	3	?	?	?	<5	Amurskii Bay	Amurskii Bay			<i>Karenia mikimotoi</i>	18.0					20.0	20.0			
	AB	2006	3	2006	7	3	?	?	?	<5	Amurskii Bay	Amurskii Bay			<i>Chaetoceros salsaugineus</i>	1,600					5.0	33.0			
	VB	2006	1	2006	8	4	2006				?	Vostok Bay	Vostok Bay			<i>Heterosigma akashiwo</i>	38.0					22.6	30.6		
	VB	2006	2	2006	8	20	2006				?	Vostok Bay	Vostok Bay			<i>Skeletonema costatum</i>	8,229								
	AB	2007	1	2007	7	11	2007	7	25	14	Amurskii Bay	Amurskii Bay			<i>Dinophysis acuminata</i>	0.7					18.0-22.0	26.0-26.7			
	AB	2007	2	2007	7	25	2007	8	20	25	Amurskii Bay	Amurskii Bay			<i>Skeletonema costatum</i>	8,697					20.0-23.0	26.8-28.0			
	AB	2007	3	2007	7	25	2007	7	25	1	Amurskii Bay	Amurskii Bay			<i>Heterosigma akashiwo</i>	0.3					22.0	26.8			
	AB	2007	4	2007	8	6	2007	9	17	42	Amurskii Bay	Amurskii Bay			<i>Pseudo-nitzschia delicatissima</i>	83.4					20.0-22.0	26.8-32.7			
	AB	2007	5	2007	8	20	2007	8	20	1	Amurskii Bay	Amurskii Bay			<i>Heterosigma akashiwo</i>	8.0					23.2	26.8			
	AB	2007	6	2007	9	5	2007	9	17	12	Amurskii Bay	Amurskii Bay			<i>Pseudo-nitzschia calliantha</i>	173					20.0-22.0	30.2-32.7			
	AB	2007	7	2007	10	30	2007	10	30	1	Amurskii Bay	Amurskii Bay			<i>Heterosigma akashiwo</i>	10.0					6.5	31.2			
	AB	2007	8	2007	7	25	2007	7	25	1	Amurskii Bay	Amurskii Bay			<i>Pseudo-nitzschia pungens</i>	58.8					23.0	26.7			
	VB	2007	1	2007	8	8	2007					Vostok Bay	Vostok Bay			<i>Heterosigma akashiwo</i>	19.0								
	AB	2008	1	2008	3	4	2008	4	7	34	Amurskii Bay	Amurskii Bay			<i>Dinobryon balticum</i>	1,054					0-5.5	30.6-33.6			
	AB	2008	2	2008	7	14	2008	7	28	14	Amurskii Bay	Amurskii Bay			<i>Skeletonema costatum</i>	5,526					23.3-23.5	22.5-26.0			
	AB	2008	3	2008	6	7	2008	6	7	1	Amurskii Bay	Amurskii Bay			<i>Heterosigma akashiwo</i>	1.0					16.2	18.8			
	AB	2008	4	2008	6	7	2008	7	14	37	Amurskii Bay	Amurskii Bay			<i>Dinophysis acuminata</i>	4.4					16.0-23.3	18.8-26.0			
	AB	2008	5	2008	8	29	2008				7	Amurskii Bay	Amurskii Bay			<i>Prorocentrum minimum</i>	0.9					20.5	28.2		
	AB	2008	6	2008	9	15	2008				7	Amurskii Bay	Amurskii Bay			<i>Protoceratium reticulatum</i>	0.3					20.9	29.8		
	AB	2009	1	2009	1	11	2009				7	Amurskii Bay	Amurskii Bay			<i>Protoceratium reticulatum</i>	0.3					-1.8	33.3		
	AB	2009	2	2009	6	8	2009				7	Amurskii Bay	Amurskii Bay			<i>Protoceratium reticulatum</i>	0.4					14.1	30.0		
	AB	2009	3	2009	8	2	2009				76	Amurskii Bay	Amurskii Bay			<i>Prorocentrum triestinum</i>	508.8					10.5-23.0	20.0		
	AB	2009	4	2009	9	9	2009				7	Amurskii Bay	Amurskii Bay			<i>Prorocentrum minimum</i>	0.3					19.0	25.0		
VB	2009	1	2009	7	4	2009					Vostok Bay	Vostok Bay			<i>Nitzschia hybrida f. hyalina</i>	8,121.6					15.4	28.3			
AB	2010	1	2010	3	30	2010				7	Amurskii Bay	Amurskii Bay			<i>Heterosigma akashiwo</i>	6,041.6					-1.0	30.6			

*1 Scientific name is based on the Integrated Report on Harmful Algal Blooms (HABs) for the NOWPAP Region (NOWPAP CEARAC 2005).