

BS	2011	1	2011	6	17	2011	6	17	1	Bohai Sea	Qinhuangdao			<i>Picoflagellate</i>										180
YS	2011	2	2011	5	11	2011	5	23	13	Yellow Sea	Yalu River to east of Changhai County			<i>Noctiluca scintillans</i>										4000
YS	2011	3	2011	9	23	2011	9	26	4	Yellow Sea	East and north of Lian Island, Haizhou Bay			<i>Skeletonema costatum</i>										200
ES	2011	4	2011	5	13	2011	6	4	22	East China Sea	Cangnan, Wenzhou			<i>Prorocentrum donghaiense</i>										200
ES	2011	5	2011	5	17	2011	5	17	1	East China Sea	Dongji Island, Zhoushan			<i>Prorocentrum donghaiense</i>										100
ES	2011	6	2011	7	26	2011	8	7	13	East China Sea	Xiamen			<i>Skeletonema costatum</i>										105
ES	2011	7	2011	7	26	2011	7	27	2	East China Sea	Xiangshan Port			<i>Skeletonema costatum</i>										160
ES	2011	8	2011	5	17	2011	6	4	18	East China Sea	Dachen, Taizhou			unknown		Abalone and Garupa		90,000						50
ES	2011	9	2011	8	23	2011	8	25	3	East China Sea	East of Chengsi			<i>Skeletonema costatum</i>										200
SS	2011	10	2011	8	15	2011	8	26	12	South China Sea	Zhuhai and Jiuzhou Islands			<i>Cochlodinium geminatum</i>		fish		3,160,000						89
BS	2012	1	2012	5	18	2012	5	28	11	Bohai Sea	Qinhuangdao			<i>Rhodomonas</i>										16
BS	2012	2	2012	6	8	2012	8	20	74	Bohai Sea	Tangshan Port-Qinhuangdao to Suizhong			<i>Aureococcus anophagefferens</i>										3400
BS	2012	3	2012	7	16	2012	8	2	18	Bohai Sea	West of Bohai Bay			<i>Leptocylindrus danicus</i> <i>Pseudo-nitzschia delicatissima</i>										16.2
BS	2012	4	2012	8	8	2012	8	16	9	Bohai Sea	Tianjin			<i>Skeletonema costatum</i> <i>Chaetoceros curvisetus</i>										400
BS	2012	5	2012	8	28	2012	8	29	2	Bohai Sea	Qinhuangdao			<i>Noctiluca scintillans</i>										1.3
BS	2012	6	2012	8	30	2012	8	31	2	Bohai Sea	Qinhuangdao			<i>Gonyaulax spinifera</i> <i>Prorocentrum micans</i>										5
BS	2012	7	2012	10	4	2012	10	10	7	Bohai Sea	Qinhuangdao			<i>Gonyaulax polygramma</i>										30
YS	2012	8	2012	5	3	2012	6	11	40	Yellow Sea	East of Rizhao			<i>Noctiluca scintillans</i>										780
YS	2012	9	2012	5	8	2012	5	11	4	Yellow Sea	Fushan Bay,Qingdao			<i>Noctiluca scintillans</i>										10
YS	2012	10	2012	6	19	2012	6	24	6	Yellow Sea	South of Shandong Peninsula			<i>Noctiluca scintillans</i>										10
YS	2012	11	2012	7	26	2012	7	28	3	Yellow Sea	Jinshi Beach, Dalian			<i>Noctiluca scintillans</i>										1
YS	2012	12	2012	9	11	2012	9	13	3	Yellow Sea	Longwangtang,Dalian			<i>Alexandrium tamarense</i>										40
YS	2012	13	2012	10	25	2012	10	29	5	Yellow Sea	Yantai			<i>Akashiwo sanguinea</i>										5
ES	2012	14	2012	5	18	2012	6	7	21	East China Sea	Sansha Bay, Ningde			<i>Karenia mikimotoi</i>				300,000						130
ES	2012	15	2012	5	23	2012	6	8	16	East China Sea	Nanlu Islands, Wenzhou			<i>Karenia mikimotoi</i> <i>Prorocentrum donghaiense</i>				2,804,000						40
ES	2012	16	2012	5	24	2012	6	3	11	East China Sea	Dongtou Island,Wenzhou			<i>Karenia mikimotoi</i> <i>Prorocentrum donghaiense</i>				577,000						40
ES	2012	17	2012	5	25	2012	5	27	3	East China Sea	Meizhou Island, Putian			<i>Karenia mikimotoi</i>				10,500,000						2
ES	2012	18	2012	5	26	2012	6	7	13	East China Sea	Pingtai			<i>Karenia mikimotoi</i>				631,512,000						80
ES	2012	19	2012	5	27	2012	6	5	11	East China Sea	Huangqi Peninsula, Fujian			<i>Karenia mikimotoi</i>				1,053,900,000						40
ES	2012	20	2012	5	30	2012	6	5	7	East China Sea	Dongshan, Fuqing			<i>Karenia mikimotoi</i>				119,961,000						6
ES	2012	21	2012	5	30	2012	6	8	10	East China Sea	Putian			<i>Karenia mikimotoi</i>				145,495,000						32
ES	2012	22	2012	5	30	2012	6	2	4	East China Sea	Xiaozuo, Huian			<i>Karenia mikimotoi</i>				37,000,000						7
ES	2012	23	2012	6	3	2012	6	7	5	East China Sea	Chengsi, Zhoushan			<i>Karenia mikimotoi</i> <i>Prorocentrum donghaiense</i>				673,000						240
ES	2012	24	2012	6	5	2012	6	8	4	East China Sea	Luoyuanbi, Fuzhou			<i>Karenia mikimotoi</i>				11,700,000						10
BS	2013	1	2013	2	13	2013	3	9	25	Bohai Sea	Xiaoqing River Estuary, Shouguang			<i>Skeletonema costatum</i> <i>Melosira juergensii</i>										70
BS	2013	2	2013	5	25	2013	8	31	99	Bohai Sea	Suizhong to Qinhuangdao			<i>Aureococcus anophagefferens</i>										1450
BS	2013	3	2013	5	25	2013	5	26	2	Bohai Sea	Daihe River Estuary to Jinshanzui,Qinhuangdao			<i>Noctiluca scintillans</i>										2
BS	2013	4	2013	6	3	2013	6	4	2	Bohai Sea	Daihe River Estuary to Jinshanzui,Qinhuangdao			<i>Noctiluca scintillans</i>										10
BS	2013	5	2013	6	9	2013	6	12	4	Bohai Sea	West qinhuangdao Harbor anchorage to Daihe River Estuary			<i>Noctiluca scintillans</i>										16
BS	2013	6	2013	6	18	2013	6	22	5	Bohai Sea	Dongshan Beach to Jinshanzui			<i>Prorocentrum minimum</i> <i>Noctiluca scintillans</i>										7.06
BS	2013	7	2013	6	19	2013	6	20	2	Bohai Sea	West of Liaodong Bay			<i>Noctiluca scintillans</i>										7
BS	2013	8	2013	6	23	2013	6	27	5	Bohai Sea	East qinhuangdao Harbor anchorage			<i>Noctiluca scintillans</i>										4
BS	2013	9	2013	6	26	2013	7	2	7	Bohai Sea	North of Bohai Bay			<i>Noctiluca scintillans</i> <i>Mesodinium rubrum</i> <i>Pseudo-nitzschia pungens</i>										50
BS	2013	10	2013	7	5	2013	7	8	4	Bohai Sea	Harber Economic Area and Tianjin Port			<i>Skeletonema costatum</i> <i>Thalassiosira nordenskioldii</i> <i>Chaetoceros affinis</i>			1.08E+07 2.44E+07 3.20E+06							154

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														<i>Pseudo-nitzschia delicatissima</i>	5.77E+06							
BS	2013	11	2013	7	16	2013	7	25	10	Bohai Sea	Hangu and Tianjin Port			<i>Noctiluca scintillans</i>							100	
BS	2013	12	2013	9	23	2013	9	28	6	Bohai Sea	Xiaoqing River Estuary, Shouguang			<i>Cerataulina pelagica</i>							10	
YS	2013	13	2013	5	30	2013	6	1	3	Yellow Sea	Haizhou Bay			<i>Heterosigma akashiwo</i>							450	
ES	2013	14	2013	5	13	2013	5	29	17	East China Sea	Cangnan, Wenzhou			<i>Prorocentrum donghaiense</i>							450	
ES	2013	15	2013	5	18	2013	6	2	16	East China Sea	Kanmen, Yuhuan			<i>Prorocentrum donghaiense</i>							120	
ES	2013	16	2013	5	20	2013	5	24	5	East China Sea	Southeast of Jiushan Island			<i>Prorocentrum donghaiense</i>							140	
ES	2013	17	2013	6	3	2013	6	9	7	East China Sea	Dongfushan Island			<i>Prorocentrum donghaiense</i>							100	
ES	2013	18	2013	6	22	2013	6	24	3	East China Sea	Northeast of Zhujiajian Island - West of Zhongjieshan Islands			<i>Prorocentrum donghaiense</i>							200	
SS	2013	19	2013	8	9	2013	8	13	5	South China Sea	Zhanjiang Port Bay			<i>Skeletonema costatum</i>							113	
BS	2014	1	2014	3	26	2014	3	28	3	Bohai Sea	Laizhou to Zhaoyuan			<i>Noctiluca scintillans</i>							66	
BS	2014	2	2014	5	15	2014	8	7	85	Bohai Sea	Qinhuangdao			<i>Aureococcus anophagefferens</i>							2000	
BS	2014	3	2014	5	30	2014	6	13	15	Bohai Sea	Eastern sea area of Liaodong Bay			<i>Noctiluca scintillans</i>							110	
BS	2014	4	2014	6	11	2014	6	12	2	Bohai Sea	Qinhuangdao			<i>Noctiluca scintillans</i>							75	
BS	2014	5	2014	6	13	2014	6	15	3	Bohai Sea	Qinhuangdao			<i>Noctiluca scintillans</i> <i>Prorocentrum minimum</i>							228	
BS	2014	6	2014	8	26	2014	9	25	31	Bohai Sea	Tianjin			<i>Thalassiosira eccentrica</i> <i>Cochlodinium polykrikoides</i> <i>Ceratium furca</i>							300	
BS	2014	7	2014	9	1	2014	9	4	4	Bohai Sea	Qinhuangdao			<i>Karenia mikimotoi</i>							8	
BS	2014	8	2014	9	13	2014	9	17	5	Bohai Sea	Center of Bohai Sea			<i>Karenia mikimotoi</i>							400	
BS	2014	9	2014	9	15	2014	9	19	5	Bohai Sea	West beach of Qinhuangdao			<i>Scripsiella trochoidea</i> <i>Ceratium furca</i>							1.1	
BS	2014	10	2014	9	21	2014	9	23	3	Bohai Sea	Changdao county, Yantai			<i>Chattonella marina</i>							890	
YS	2014	11	2014	8	28	2014	9	5	9	Yellow Sea	Yantai			<i>Chattonella marina</i>							19	
ES	2014	12	2014	5	8	2014	5	15	8	East China Sea	Nanri Island, Putian			<i>Prorocentrum donghaiense</i>							600	
ES	2014	13	2014	5	19	2014	6	11	24	East China Sea	Cangnan, Wenzhou			<i>Prorocentrum donghaiense</i>							320	
ES	2014	14	2014	5	21	2014	6	5	17	East China Sea	Chengsi, Zhoushan			<i>Prorocentrum donghaiense</i>							170	
ES	2014	15	2014	5	21	2014	6	3	14	East China Sea	Putuo, Zhoushan			<i>Prorocentrum donghaiense</i>							300	
ES	2014	16	2014	5	21	2014	6	9	20	East China Sea	Wenling, Taizhou			<i>Prorocentrum donghaiense</i>							100	
ES	2014	17	2014	5	27	2014	6	3	8	East China Sea	Zhujiajian, Zhoushan			<i>Prorocentrum donghaiense</i>							400	
ES	2014	18	2014	9	7	2014	9	9	3	East China Sea	Chengsi, Zhoushan			<i>Prorocentrum donghaiense</i> <i>Karenia mikimotoi</i>							200	
SS	2014	19	2014	4	11	2014	4	23	13	South China Sea	Huizhou			<i>Akashiwo sanguinea</i> <i>Gonyaulax polygramma</i>							100	
SS	2014	20	2014	7	21	2014	8	13	25	South China Sea	Zhanjiang Port Bay			<i>Skeletonema costatum</i>							140	
SS	2014	21	2014	11	15	2014	11	27	13	South China Sea	Maoming			<i>Noctiluca scintillans</i>							300	
BS	2015	1	2015	5	20	2015	8	13	86	Bohai Sea	Suizhong-Luan River Estuary			<i>Aureococcus anophagefferens</i>							825	
BS	2015	2	2015	6	3	2015	6	16	14	Bohai Sea	Qinhuangdao Port			<i>Skeletonema costatum</i> <i>Heterosigma akashiwo</i>							70	
BS	2015	3	2015	6	14	2015	6	16	3	Bohai Sea	Western sea area of Liaodong Bay			<i>Noctiluca scintillans</i>							260	
BS	2015	4	2015	6	23	2015	6	24	2	Bohai Sea	West qinhuangdao Harbor anchorage			<i>Noctiluca scintillans</i>							3	
BS	2015	6	2015	8	6	2015	8	9	4	Bohai Sea	Dongshan Beach, Qinhuangdao			<i>Skeletonema costatum</i>							60	
BS	2015	7	2015	8	11	2015	8	19	9	Bohai Sea	West beach of Qinhuangdao to Dongshan beach			<i>Raphidophyceae</i> <i>Leptocyllindrus danicus</i>							40	
BS	2015	8	2015	8	21	2015	9	3	14	Bohai Sea	Southern sea area of Tianjin Port			<i>Cochlodinium polykrikoides</i>							264	
YS	2015	5	2015	7	8	2015	7	31	24	Yellow Sea	East of Dalian Port			<i>Noctiluca scintillans</i> <i>Prorocentrum minimum</i>							48	
ES	2015	9	2015	4	26	2015	5	3	9	East China Sea	Yushan Islands			<i>Prorocentrum donghaiense</i>							200	
ES	2015	10	2015	5	26	2015	6	2	8	East China Sea	Guzhen, Xiapu county			<i>Karenia mikimotoi</i> <i>Prorocentrum donghaiense</i>							100	
ES	2015	11	2015	6	12	2015	6	21	10	East China Sea	Nanlu, Wenzhou			<i>Gonyaulax polygramma</i>							390	
ES	2015	12	2015	9	10	2015	9	19	10	East China Sea	Anhai Bay and Weitou Bay, Quanzhou			<i>Phaeocystis globosa</i>							150	
SS	2015	13	2015	1	23	2015	2	13	22	South China Sea	Danzhou			<i>Phaeocystis globosa</i>							100	
BS	2016	1	2016	4	30	2016	5	4	5	Bohai Sea	Qinhuangdao			<i>Alexandrium tamarense</i> <i>Noctiluca scintillans</i>	2.50E+06						4.5	
BS	2016	2	2016	6	6	2016	6	9	4	Bohai Sea	Dongshan Beach, Qinhuangdao			<i>Heterosigma akashiwo</i>	1.20E+08							2.3
BS	2016	3	2016	7	5	2016	7	11	7	Bohai Sea	Shanghai Base to Port, Qinhuangdao			<i>Mesodinium rubrum</i>	1.87E+07							18.8

SS	2019	11	2019	1	30	2019	2	6	8	South China Sea	Qianhai Bay, Shenzhen				<i>Heterosigma akashiwo</i>								1.5
SS	2019	12	2019	6	4	2019	6	6	3	South China Sea	Shanwei				<i>Leptocylindrus danicus</i>								10
BS	2020	1	2020	8	21	2020	11	12	84	Bohai Sea	Tianjin				<i>Skeletonema costatum</i> <i>Cochlodinium polykrioides</i> <i>Scrippsiella trochoidea</i> <i>Ceratium furca</i> <i>Akashiwo sanguinea</i> <i>Pseudo-nitzschia delicatissima</i> <i>Pseudo-nitzschia pungens</i>								75
ES	2020	2	2020	4	28	2020	5	20	23	East China Sea	East of Nanlu-Dongtou-Wenling				<i>Prorocentrum donghaiense</i>								380
ES	2020	3	2020	4	29	2020	5	27	29	East China Sea	Shipu - Yushan				<i>Prorocentrum donghaiense</i>								380
ES	2020	4	2020	5	14	2020	5	19	6	East China Sea	South of Pishan in Yuhuan, Taizhou				<i>Prorocentrum donghaiense</i>								110
ES	2020	5	2020	5	14	2020	5	19	6	East China Sea	South of Jiigushan, Wenling				<i>Prorocentrum donghaiense</i>								100
ES	2020	6	2020	8	14	2020	8	15	2	East China Sea	East of Zhujiajian Island				<i>Rhizosolenia setigera</i>								300
SS	2020	7	2020	5	3	2020	5	5	3	South China Sea	Shenzhen Bay				<i>Heterosigma akashiwo</i> <i>Skeletonema costatum</i>								6

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

Data resource:

- China's Marine Environment Bulletin (2009–2020)
- China's Marine Disaster Bulletin (2009–2020)
- Marine Disaster Bulletin in North China Sea (2009–2020)
- Marine Disaster Bulletin in South China Sea

These data were collected by the HAB monitoring network consisting of national, provincial, regional, and country-level monitoring stations. Ship-tracking is the main tool to monitor HABs.