Projects related to Alexandrium in the Northeastern United States

Funding Agency	Principal Investigator	Institution	Title
NOAA Center for Sponsored Coastal Ocean Research	Anderson, D.	Woods Hole Oceanographic Institution, MA	GOMTOX: Dynamics of Alexandrium fundyense distributions in the Gulf of Maine An observational and modeling study of nearshore and offshore shellfish toxicity, vertical toxin flux, and bloom dynamics in a complex sea shelf
NOAA Center for Sponsored Coastal Ocean Research; NSF	Anderson, D.	Woods Hole Oceanographic Institution, MA	ECOHAB Gulf of Maine - The ecology and oceanography of toxic <i>Alexandrium</i> blooms in the Gulf of Maine
NOAA Center for Sponsored Coastal Ocean Research	Anderson, D.	Woods Hole Oceanographic Institution, MA	Alexandrium spp. cyst dynamics in the Gulf of Maine: delivery, deposition, and resuspension
NOAA Center for Sponsored Coastal Ocean Research	Anderson, D.	Woods Hole Oceanographic Institution, MA	Response to the New England Red Tide of 2005
NOAA Center for Sponsored Coastal Ocean Research	Anderson, D.	Woods Hole Oceanographic Institution, MA	Toxin composition variability as an indicator of nutritional status of Alexandrium field populations
NOAA Center for Sponsored Coastal Ocean Research	Coats, D.W.	Smithsonian Environmental Research Center	Role of Parasitism on HAB Dynamics: Amoebophrya sp. ex Alexandrium tamarense
NOAA Center for Sponsored Coastal Ocean Research	Connell, L.	University of Maine, ME	Spread of a sodium channel mutation in softshell clam, <i>Mya arenaria</i> , populations: Implication for risk assessment and management of PSP toxins
NOAA Center for Sponsored Coastal Ocean Research	Connell, L.	University of Maine, ME	Rapid HAB detection instrument development and deployment
NOAA Center for Sponsored Coastal Ocean Research	Connell, L.	University of Maine, ME	A molecular basis for different susceptibility and accumulation of PSP toxins in commercial bivalves
NOAA Center for Sponsored Coastal Ocean Research	Couture, D.	Maine Department of Marine Resources	Monitoring in Casco Bay, Maine, during Alexandrium HAB Event
NOAA Center for Sponsored Coastal Ocean Research	Dam, H.G.	University of Connecticut/Avery Point, CT	Relation between grazer toxin dynamics and resistance to toxic dinoflagellates
NOAA Center for Sponsored Coastal Ocean Research	Dam, H.G.	University of Connecticut/Avery Point, CT	Ecological and evolutionary consequences of spreading of <i>Alexandrium</i> to grazers, and implications for bloom formation and maintenance
NOAA Center for Sponsored Coastal Ocean Research	Durbin, E.	University of Rhode Island, RI	The role of zooplankton grazers in harmful algal bloom dynamics
NOAA Center for Sponsored Coastal Ocean Research	Dyhrman, S.	Woods Hole Oceanographic Institution, MA	Career 2004: Harmful Algae Research Program - A Coastal Development Initiative for Undergraduates
NOAA Center for Sponsored Coastal Ocean Research	Frost, B.W.	Univerisity of Washington, WA	The relationship between paralytic shellfish toxins and <i>Alexandrium</i> cysts in Puget Sound, Washington
NOAA Center for	Heil, C.	Florida Fish & Wildlife	Humic acid utilization by the HAB

Sponsored Coastal		Research Institute,	dinoflagellates Karenia brevis and
Ocean Research		FL	Alexandrium tamarense: application of a new radioisotopic technique
NOAA Center for	Hoagland, P.	Woods Hole	Economic impacts of HAB events and the
Sponsored Coastal	J ,	Oceanographic	value of scientific predictions
Ocean Research		Institution, MA	•
NOAA Center for	Lefebvre, K.	NOAA Northwest	Effects of algal toxin exposure in early life
Sponsored Coastal	,	Fisheries Science	history stages of fish
Ocean Research		Center, WA	, ,
NOAA Center for	McGillicuddy,	Woods Hole	Gulf of Maine Red Tide Response 2006
Sponsored Coastal	D.	Oceanographic	
Öcean Research		Institution, MA	
NOAA Center for	McGillicuddy,	Woods Hole	Predictive models of the toxic
Sponsored Coastal	D.	Oceanographic	dinoflagellate Alexandrium fundyense in
Ocean Research		Institution, MA	the gulf of Maine: quantitative evaluation,
		,	refinement, and transition to operational mode for coastal management
NOAA Center for	McGillicuddy,	Woods Hole	Alexandrium bloom transport:
Sponsored Coastal	D.	Oceanographic	Observation and models
Ocean Research		Institution, MA	
NOAA Center for	Thomas, A.	University of Maine,	Oceanographic links to Alexandrium-
Sponsored Coastal		ME	imposed toxicity in the Gulf of Maine
Ocean Research			,
NOAA Center for	Trainer, V.	NOAA Northwest	Mechanisms and control of toxin
Sponsored Coastal		Fisheries Science	accumulation in shellfish
Ocean Research		Center, WA	
NOAA Center for	Doucette, G.	NOAA Center for	Elucidate the Transfer Pathways of HAB
Coastal Environmental		Coastal	Toxins Through the Foodweb
Health and		Environmental Health	
Biomolecular		and Biomolecular	
Research		Research	
NOAA Center for	Van Dolah, F.	NOAA Center for	Laboratory validation of paralytic shellfish
Coastal Environmental		Coastal	poisoning detection method
Health and		Environmental Health	
Biomolecular		and Biomolecular	
Research		Research	
NOAA Center for	Van Dolah, F.	NOAA Center for	Technology Transfer for Harmful Algae
Coastal Environmental	,	Coastal	and Toxin Detection Methods
Health and		Environmental Health	
Biomolecular		and Biomolecular	
Research		Research	
NOAA Center for	Van Dolah, F.	NOAA Center for	Evaluation of the potential for a roe-on
Coastal Environmental		Coastal	scallop industry in the Northeast US
Health and		Environmental Health	
Biomolecular			
		and Biomolecular	
Research		Research	
Research NOAA Oceans and	Jellet, J.	Research Jellett Rapid Testing	Investigations into the use of lateral flow
Research	Jellet, J.	Research	tests for the detecting and monitoring of
Research NOAA Oceans and Human Health Initiative		Research Jellett Rapid Testing Limited, Canada	tests for the detecting and monitoring of shellfish toxins
Research NOAA Oceans and Human Health	Jellet, J. Anderson, D.	Research Jellett Rapid Testing Limited, Canada Woods Hole	tests for the detecting and monitoring of shellfish toxins Dynamics of the toxic dinoflagellate
Research NOAA Oceans and Human Health Initiative		Research Jellett Rapid Testing Limited, Canada	tests for the detecting and monitoring of shellfish toxins
Research NOAA Oceans and Human Health Initiative		Research Jellett Rapid Testing Limited, Canada Woods Hole	tests for the detecting and monitoring of shellfish toxins Dynamics of the toxic dinoflagellate
Research NOAA Oceans and Human Health Initiative		Research Jellett Rapid Testing Limited, Canada Woods Hole Oceanographic	tests for the detecting and monitoring of shellfish toxins Dynamics of the toxic dinoflagellate Alexandrium in the Gulf of Maine: Source populations and downstream impacts Detection of harmful algal species using
Research NOAA Oceans and Human Health Initiative NOAA Sea Grant	Anderson, D.	Research Jellett Rapid Testing Limited, Canada Woods Hole Oceanographic Institution, MA	tests for the detecting and monitoring of shellfish toxins Dynamics of the toxic dinoflagellate Alexandrium in the Gulf of Maine: Source populations and downstream impacts
Research NOAA Oceans and Human Health Initiative NOAA Sea Grant NOAA Sea Grant	Anderson, D. Anderson, D.	Research Jellett Rapid Testing Limited, Canada Woods Hole Oceanographic Institution, MA Woods Hole Oceanographic Institution, MA	tests for the detecting and monitoring of shellfish toxins Dynamics of the toxic dinoflagellate Alexandrium in the Gulf of Maine: Source populations and downstream impacts Detection of harmful algal species using molecular probes: Field Trials
Research NOAA Oceans and Human Health Initiative NOAA Sea Grant	Anderson, D.	Research Jellett Rapid Testing Limited, Canada Woods Hole Oceanographic Institution, MA Woods Hole Oceanographic Institution, MA State University of	tests for the detecting and monitoring of shellfish toxins Dynamics of the toxic dinoflagellate Alexandrium in the Gulf of Maine: Source populations and downstream impacts Detection of harmful algal species using molecular probes: Field Trials Construction and testing of an
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NOAA Sea Grant	Plumley, F.	University of Alaska, AK	Identification of the cyanobacterial "saxitoxin genes"
NOAA Sea Grant	Plumley, F.	University of Alaska, AK	Paralytic shellfish poisoning: Bacteria as regulators or <i>Alexandrium</i> growth and toxin synthesis
NOAA Sea Grant	Plumley, F.	University of Alaska, AK	Molecular biology of paralytic shellfish poisoning: role of prokaryotes in toxin production
EPA (ECOHAB)	Dam, H.	University of Connecticut/Avery Point, CT	Linking food webs structure, grazer toxin resistance, and ecological stoichiometry in understanding bloom formation and maintenance
EPA (ECOHAB)	Dyhrman, S.	Woods Hole Oceanographic Institution, MA	The development of a single-cell field diagnostic for nitrogen limitation in harmful algae
EPA (ECOHAB)	Juhl, A.	Lamont-Doherty Earth Observatory of Columbia University, NY	Quantifying grazing on harmful algae with a novel qPCR-based technique
EPA (ECOHAB)	Wikfors, G.	NOAA Northeast Fisheries Science Center, CT	Trophic effects of two dinoflagellates
NASA (ECOHAB)	Roesler, C.	Bigelow Laboratory for Ocean Sciences, ME	Ecophysiology of subpopulations of Alexandrium tamarense
NSF (ECOHAB)	Durbin, E.	University of Rhode Island, RI	Zooplankton grazing of toxic <i>Alexandrium</i> spp. as a mechanism in the control of bloom formation and toxin transfer
NSF (ECOHAB)	Kvitek, R.	California State University / Monterey Bay, CA	Influence of harmful algal blooms on the distribution and ecology of high level marine predators
NSF/NIEHS OHH	Anderson, D.	Woods Hole Oceanographic Institution, MA	Alexandrium population biology in the Gulf of Maine
NSF/NIEHS OHH	Anderson, D.	Woods Hole Oceanographic Institution, MA	Transcriptional Markers of Life Cycle Transitions in Harmful Algal Blooms
NSF/NIEHS OHH	McGuillicuddy, D.	Woods Hole Oceanographic Institution, MA	Hydrodynamic forcings of <i>Alexandrium</i> population biology

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Agency	Investigator		
NOAA Sea Grant	Boyer, G.	State University of New York at Buffalo, NY	Construction and testing of an inexpensive PSP Toxin Analyzer
NOAA Sea Grant	Plumley, F.	University of Alaska, AK	Identification of the cyanobacterial "saxitoxin genes"
NOAA Sea Grant	Plumley, F.	University of Alaska, AK	Paralytic shellfish poisoning: Bacteria as regulators or <i>Alexandrium</i> growth and toxin synthesis
NOAA Sea Grant	Plumley, F.	University of Alaska, AK	Molecular biology of paralytic shellfish poisoning: role of prokaryotes in toxin production
EPA (ECOHAB)	Dam, H.	University of Connecticut/Avery Point, CT	Linking food webs structure, grazer toxin resistance, and ecological stoichiometry in understanding bloom formation and maintenance
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