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B.S. Biology, Virginia Polytechnic Institute and State University. 1977
Graduate study, College of William and Mary/
Virginia Institute of Marine Science, 1980-1983
Research Associate, Woods Hole Oceanographic Institution, 1992-present
Research Assistant, Woods Hole Oceanographic Institution, 1983-1992
Laboratory Technician, Virginia Institute of Marine Science, 1977-1983

Selected Experience at Sea as Chief Scientist:

2007	R/V Tioga	GOMTOX cruises in Mass Bay-deploy/recover McLane samplers
2006	R/V Oceanus	GOMTOX cyst survey in the Gulf of Maine
2005	R/V Tioga	Six emergency 2-day cruises during 2005 southern NE bloom
2005	R/V Oceanus	Eleven day cruise – Gulf of Maine cyst survey
2004	R/V Cape Hatteras	Eleven day cruise – ECOHAB cyst project - Gulf of Maine
2001	R/V Cape Hatteras	Two 10-day cruises in Gulf of Maine – ECOHAB-GOM
2000	R/V Gulf Challenger	Eight 2-3 days cruises in Casco Bay – ECOHAB-GOM
1999	R/V Gulf Challenger	Three 2 day cruises in Mass Bay – Sea Grant/MWRA
1998	R/V Gulf Challenger	Eleven 2-3 day cruises - ECOHAB-GOM
1997	R/V Endeavor	ECOHAB cyst survey in the Gulf of Maine
1996	R/V Gulf Challenger	Four 2 day cruises in Mass Bay. Toxin transfer in the Food Web
1994	R/V ARGO Maine	Five Cruises. Transport of *Alexandrium* in the Gulf of Maine

RELEVANT PUBLICATIONS

2005 Keafer, B.A., J.H. Churchill, D.J. McGillicuddy, and D.M. Anderson. Bloom development and transport of toxic *Alexandrium fundyense* populations within a coastal plume in the Gulf of Maine. Deep-Sea Res. II 52(19-21): 2674-2697.

2005 Keafer, B.A., J.H. Churchill, and D.M. Anderson. Blooms of the toxic dinoflagellate, *Alexandrium fundyense*, in the Casco Bay region of the western Gulf of Maine: Advection from offshore source populations and interactions with the Kennebec River plume. Deep-Sea Res. II 52(19-21): 2631-2655.

2005 Anderson, D.M., B.A. Keafer, D.J. McGillicuddy, M.J. Mickelson, K.E. Keay, P.S. Libby, J.P. Manning, C.A. Mayo, D.K. Whittaker, J.M. Hickey, R. He, D.R. Lynch, and K.W. Smith. Initial observations of the 2005 *Alexandrium fundyense* bloom in southern New England: General patterns and mechanisms. Deep-Sea Res. II 52(19-21): 2856-2876.

2005 Anderson, D.M., B.A. Keafer, W.R. Geyer, R.P. Signell, and T.C. Loder. Toxic *Alexandrium* blooms in the western Gulf of Maine: The plume advection hypothesis revisited. Limnol. Oceanogr. 50(1): 328-345.

2005 Anderson, D.M., C.A. Stock, B.A. Keafer, A. Bronzino Nelson, B. Thompson, D.J. McGillicuddy, M. Keller, P.A. Matrai, and J. Martin. *Alexandrium fundyense* cyst dynamics in the Gulf of Maine. Deep-Sea Res. II 52(19-21): 2522-2542.

OTHER SIGNIFICANT PUBLICATIONS

2005 Turner, J.T., G.J. Doucette, B.A. Keafer, D.M. Anderson. Trophic accumulation of PSP toxins in zooplankton during *Alexandrium fundyense* blooms in Casco Bay, Gulf of Maine, April - June, 1998. II. Zooplankton abundance and size-fractionated community composition. Deep-Sea Res. II 52(19-21): 2784-2800.

2003 Franks, P.J.S. and B.A. Keafer. 2003. Sampling techniques and strategies for coastal phytoplankton blooms. pp. 51-76, in: Hallegraeff, G.M., D.M. Anderson, and A.D. Cembella (Eds.), *Manual on Harmful Marine Microalgae*, UNESCO, Paris.

1993 Keafer, B.A. and D.M. Anderson. The use of remotely-sensed sea surface temperatures in studies of *Alexandrium tamarense* bloom dynamics. Smayda, T.J. and Shimizu, Y. (eds.) in *Toxic Phytoplankton Blooms in the Sea.* Elsevier Science Publishers. 763-768.

1992 Keafer, B.A., K.O. Buessler, and D.M. Anderson. Burial of living dinoflagellate cysts in estuarine and nearshore sediments. Marine Micropaleontology 20: 147-161.

1987 Anderson, D.M. and B.A. Keafer. An endogenous annual clock in the toxic marine dinoflagellate, *Gonyaulax tamarensis.* Nature 172: 89-107.