

**James S. Latimer, Research Physical Scientist, in EPA's National Health and Environmental Effects Research Laboratory**

Atlantic Ecology Division  
Mailing Address

[latimer.jim@epa.gov](mailto:latimer.jim@epa.gov)

**Area of Expertise:** I have extensive experience in the field of marine biogeochemistry, ecology, and management: the study of the sources, transport, fate, and effects of environmental contaminants in marine systems with application to ecosystem management. I have planned and executed major interdisciplinary studies involving the quantification of atmospheric inputs, freshwater sources, spatial and temporal distributions and ecological effects of nutrients, toxic organics, and metals in the coastal marine environment. The work of my colleagues and I was one of the first to show nonpoint sources of pollution as significant to the coastal marine environment. In addition, my experience in multiple aspects of the nature of marine environmental pollution has allowed me to contribute to many EPA and other governmental panels for the formulation of regulatory frameworks useful to the states/tribes and regional offices. Recently I led a team of scientists and managers in the development of the Long Island Sound Study's Comprehensive Conservation and Management Plan and was also the senior editor on a scientific synthesis book on Long Island Sound. Currently, besides my scientific work on watershed-estuary interactions, I have been active in the Gulf of Maine Council's EcoSystem Indicator Partnership as the US Chair, leading the group in the development of environmental and ecosystem services indicators, as well as digital tools for use by citizen scientists.

**Select Publications** ([Several links exit this site](#)):

Price, A.M., V. Pospelova, M.R.S. Coffin, J.S. Latimer, and G.L. Chmura. 2016. [Biogeography of dinoflagellate cysts in northwest Atlantic estuaries](#). *Ecology and Evolution* **6**:5648–56621-15.

Latimer, J.S., M.A. Tedesco, R.L. Swanson, C. Yarish, P. Stacey, and C. Garza. 2013. [Long Island Sound: Prospects for the Urban Sea](#). In Springer Series on Environmental Management, ed. B.N. Anderson, R.W. Howarth and L.R. Walker, 558. New York: Springer.

Latimer, J.S., Charpentier, M.A., 2010. [Nitrogen inputs to seventy-four southern New England estuaries: Application of a watershed nitrogen loading model](#). *Estuarine, Coastal and Shelf Science* **89**:125-136.

Latimer, J.S., Rego, S.A., 2010. [Empirical relationship between eelgrass extent and predicted watershed-derived nitrogen loading for shallow New England estuaries](#). *Estuarine Coastal and Shelf Science* **90**:231-240.

Pospelova, V., G. L. Chmura, W. S. Boothman, and J. S. Latimer. 2005. [Spatial distribution of modern dinoflagellate cysts in polluted estuarine sediments from Buzzards Bay \(Massachusetts, USA\) embayments](#). *Marine Ecology Progress Series* **292**:23-40.

Latimer, J. S., W. S. Boothman, C. E. Pesch, G. L. Chmura, V. Pospelova, and S. Jayaraman.

2003. [Environmental stress and recovery: the geochemical record of human disturbance in New Bedford Harbor and Apponagansett Bay, Massachusetts, USA](#). *Science of the Total Environment* **313**:153-176.

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**Education:**

- Ph.D., University of Rhode Island, Kingston, RI; Chemical Oceanography, 1989
- M.S., University of Rhode Island, Kingston, RI; Analytical Chemistry, 1984
- B.S., Syracuse University, Syracuse, NY; Chemistry 1979

**Professional Experience:**

- Research Physical Scientist, U.S. Environmental Protection Agency, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division, 2010-present
- Science Coordinator, U.S. Environmental Protection Agency, Long Island Sound Study, 2010-2015
- Research Environmental Scientist, U.S. Environmental Protection Agency, Office of Science and Technology, Office of Water, 2009-2010
- US-Chair: Gulf of Maine Council's EcoSystem Indicator Partnership, 2007-present
- Acting Chief, Ecological Response Branch, U.S. Environmental Protection Agency, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division, 2000
- Associate Editor, *Estuaries*, 1996-2001
- Assistant Marine Research Scientist, University of Rhode Island, Graduate School of Oceanography, 1994-1995
- Adjunct faculty, University of Rhode Island, Graduate School of Oceanography, 1992-1995