

CURRICULUM VITAE

Erin L. Kinney

Postdoctoral Research Associate
Department of Marine Biology
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CITIZENSHIP

United States of America

EDUCATION

- Ph. D., Boston University, Boston University Marine Program, 2010. Biology
- M.A., Boston University, Boston University Marine Program, 2009. Biology
- B.A., Dartmouth College, Hanover, NH, 2002. Environmental and Evolutionary Biology
 - Biology Foreign Studies Program:
3 month intensive research program: tropical ecosystem and coral reef ecology

RESEARCH EXPERIENCE

- Postdoctoral Research Associate, Texas A&M University at Galveston (2011-present).
Assessing the influence of soil source on the restoration of emergent coastal marshes and aquatic habitat.
- Post-doctoral scientist, The Ecosystems Center, Marine Biological Laboratory (2010-2011).
Assessing management options for Great South Bay, NY and studying the effects of long-term fertilization on salt marsh vegetation and sediments.
- Research Assistant, The Ecosystems Center, Marine Biological Laboratory (2009-2010).
Using stable isotopes to study the effects of long-term fertilization on salt marsh sediments.
- Research Assistant, The Ecosystems Center, Marine Biological Laboratory (2008-2009).
Using GIS and nitrogen loading models to study the nitrogen loading to Great South Bay, NY.
- Graduate Research Fellow, National Oceanic and Atmospheric Administration/National Estuarine Research Reserve, Woods Hole, MA (2007-2008). Studying the $\delta^{15}\text{N}$ profiles in salt marsh sediments: Calibrations using decadal scale N loads.
- Research Scientist Consultant, Martha's Vineyard Commission (2005-2006). Using nitrogen loading models and groundwater sampling to study the nutrient inputs and water quality of Old (Ice) House Pond, West Tisbury, Martha's Vineyard.
- Graduate Research Fellow, National Oceanic and Atmospheric Administration/National Estuarine Research Reserve, Woods Hole, MA (2005-2007). Using stable isotopes to study the use of *Spartina alterniflora* as an indicator of waste water N-load to a coastal watershed in Waquoit Bay, MA.

- Research Assistant, Marine Sciences Research Center, Stony Brook University (2002-2003). Conducting radio-isotope experiments investigating the bioaccumulation and release of dissolved and food-related trace metals in marine bivalve mollusks.
- Research Assistant, Dartmouth College (2001-2002). Studying the reaction of tadpoles to commercially used aerial pesticides, the trophic transfer of toxic metals in aquatic food webs.
- Research Assistant, Marine Sciences Research Center, Stony Brook University (2002). Conducting radioactive experiments investigating the bioaccumulation and release of trace metals in aquatic bivalve mollusks.
- Intern, Dartmouth College (1999). Studying the mutualistic interaction between *Daphnia* and their ectosymbionts.

TEACHING/MENTORING EXPERIENCE

- 2011. Seminar leader: Using NLOAD to Model Estuarine Nitrogen Loads. The Nature Conservancy, Cold Spring Harbor, NY.
- 2010. Guest lecturer on salt marsh biology for Marine Biology course at Dartmouth College, Hanover, NH.
- 2010. Mentor to graduate student Margaret Vizri.
- Organizer, Young Scientist Symposium. Marine Biological Laboratory (2005-2010). Planned and ran meeting of junior and senior scientists in a variety of disciplines at the Marine Biological Laboratory.
- Organizer, Research Experience for Undergraduates. Marine Biological Laboratory (2005-2010). Organized and ran undergraduate internship program. Coordinated research projects, seminars, housing, and support for undergraduate students.
- 2008. Mentor to undergraduate intern Emily Olesin (UMASS Amherst), National Science Foundation Research Experience for Undergraduates.
- 2006. Mentor to undergraduate intern Amanda DeLoureiro (Mt. Holyoke College), Woods Hole Marine Science Consortium.
- 2005. Graduate teaching assistant, Marine Ecology. Boston University Marine Program.
- 2002. Undergraduate teaching assistant, Animal Behavior laboratory. Dartmouth College.

RESEARCH GRANTS / AWARDS

- National Oceanic and Atmospheric Administration/ National Estuarine Research Reserve Graduate Research Fellowship (2007-2008)
- National Oceanic and Atmospheric Administration/ National Estuarine Research Reserve Graduate Research Fellowship (2005-2007)
- Rainer Voigt Memorial Award, Boston University Marine Program (2005)
- Sounds Conservancy Grant (2007)

MANUSCRIPTS IN PREPARATION

Kinney, E. L. and I. Valiela. A sedimentary record of nitrogen loading at a watershed scale: Changes in $\delta^{15}\text{N}$ in salt marsh sediments in the Waquoit Bay estuarine system

MANUSCRIPTS IN REVIEW

Kinney, E. L. and I. Valiela. *Spartina alterniflora* $\delta^{15}\text{N}$ as an indicator of estuarine nitrogen load in the Waquoit Bay estuarine system

Kinney, E. L. and I. Valiela. A sedimentary record of nitrogen loading: Changes in $\delta^{15}\text{N}$ in salt marsh sediments in a long-term fertilization study

PUBLISHED/IN PRESS MANUSCRIPTS

Fox, L., I. Valiela, and **E. L. Kinney**. 2012. The effect of nutrient enrichment and sea level rise on salt marsh vegetation. *Estuaries and Coasts* 35: 445-458.

Kinney, E. L. and I. Valiela. 2011. Nitrogen loading to Great South Bay: Report on Phase 2 Management Scenarios. Report to the NY State Department of State Division of Coastal Resources.

Kinney, E. L. and I. Valiela. 2011. Nitrogen loading to Great South Bay: Land use, sources, retention, and transport from land to Bay. *Journal of Coastal Research* 27: 672-686.

Olsen, Y. S., **E. L. Kinney**, S. E. Fox, M. Teichberg, I. Valiela. 2010. Differences in urbanization and degree of marine influence are reflected in $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ of producers and consumers in seagrass habitats of Puerto Rico. *Marine Environmental Research* 69: 198 – 206.

Valiela, I., **E. Kinney**, J. Culbertson, E. Peacock, and S. Smith. 2009. Global losses of mangroves and salt marshes: Magnitudes, causes and consequences. In Duarte, C. (ed.). *Global Loss of Coastal Habitats: Magnitudes, Causes, and Consequences*. Fundación BBVA. Madrid.

Baines, S. B., N. S. Fisher, and **E. L. Kinney**. 2006. Effects of temperature on uptake of aqueous metals by blue mussels *Mytilus edulis* from Arctic and temperate waters. *Marine Ecology Progress Series* 308: 117 – 128.

Baines, S. B., N. S. Fisher, and **E. L. Kinney**. 2005. The influence of temperature on dietary metal uptake in arctic and temperate mussels. *Marine Ecology Progress Series* 289: 201 – 213.

CONFERENCE PRESENTATIONS / SEMINARS

As presenter:

2011. **Kinney, E. L.** and I. Valiela. Nitrogen loading to Great South Bay, NY: Management Options and Build Out Scenarios. Invited speaker, Meeting of the Nature Conservancy of Long Island and stakeholders of Great South Bay, West Sayville, New York, February, 15.

2010. **Kinney, E. L.** and I. Valiela. Nitrogen loading to Great South Bay, NY: Workshop on Management Scenario Options. Invited speaker, Meeting of the Nature Conservancy of Long Island and stakeholders of Great South Bay, Stony Brook, New York, November, 10.

2009. **Kinney, E. L.** and I. Valiela. Nitrogen loading to Great South Bay, NY: Land use sources, retention and transport from land to Bay. Coastal and Estuarine Research Federation Conference, Portland, Oregon, November 1-5.

2009. **Kinney, E. L.** Nitrogen loading to Great South Bay, NY: Land use sources and transport from land to Bay. Invited speaker, The Ecosystems Seminar Series, Marine Biological Laboratory, Woods Hole, Massachusetts, May 12.

2007. **Kinney, E. L.** and I. Valiela. Using $\delta^{15}\text{N}$ signatures in salt marsh plants and sediments as indicators of estuarine nitrogen loads. Estuarine Research Federation Conference, Providence, Rhode Island, November 4-8.

2007. **Kinney, E. L.** and I. Valiela. A sensitive and widespread indicator of estuarine nitrogen loads: Stable isotopic signatures in salt marsh cordgrass in Cape Cod estuaries. American Society of Limnology and Oceanography Aquatic Sciences Meeting, Santa Fe, New Mexico, February 4-9.

2006. **Kinney, E. L.** and I. Valiela. Salt marshes and the development of a sensitive and widespread indicator of estuarine nitrogen loads: stable isotopic signatures in salt marsh

cordgrass. Invited speaker, Mashpee National Wildlife Refuge Conservation Partnership, Waquoit Bay National Estuarine Research Reserve, Waquoit, Massachusetts, August 15.
2006. **Kinney, E. L.** and I. Valiela. Development of a sensitive and widespread indicator of estuarine nitrogen loads: Stable isotopic signatures in salt marsh cordgrass. New England Estuarine Research Society, Spring Meeting, Hull, Massachusetts, April 6-7.
2006. **Kinney, E. L.** A progress report - Development of a sensitive and widespread indicator of estuarine nitrogen loads: stable isotopic signatures in salt marsh cordgrass. Boston University of Marine Program Departmental Seminar Series, Woods Hole, Massachusetts, February 24.

As co-author:

2008. Valiela, I. and **E. Kinney**. Nitrogen loading to Great South Bay: land use, sources and transport from land to Bay. Invited speaker, Meeting of the Nature Conservancy of Long Island and the Bluepoints Bottomlands Council, Stony Brook, New York, October, 14.

2005. Valiela, I., **E. Kinney**, M. Teichberg, and S. E. Fox. Indicators of aquatic ecosystem change: A review of purposes and attributes. American Society of Limnology and Oceanography, Summer Meeting, Santiago de Compostela, Spain, June 19-24.

QUALIFICATIONS

Oct 2002 Radioactive Safety Training – Stony Brook University
Sept 2001 NAUI Scuba Diver Certified
Nov 2004 CPR and First Aid certified

SYNERGISTIC ACTIVITIES

Memberships: American Society of Limnology and Oceanography
Coastal and Estuarine Research Federation
New England Estuarine Research Society
Coastal Education and Research Foundation