

ANTHONY KIRINCICH

EDUCATION

- 2007 Ph.D., Oregon State University, Physical Oceanography
2003 M.S., University of Rhode Island, Physical Oceanography
1997 B.E., Vanderbilt University, Environmental Engineering

POSITIONS HELD

- 2009-present Scientist (2009-2013 Assistant, 2013-present Associate w/o Tenure) Dept. of Physical Oceanography, Woods Hole Oceanographic Institution
2007-2009 Postdoctoral Scholar/Investigator, Woods Hole Oceanographic Institution,
2002-2007 Graduate Research Assistant, Oregon State University
2001-2002 Teaching Fellow, Office of Marine Programs, University of Rhode Island
2000-2001 Research Technician, University of Rhode Island, Geophysical Fluid Dynamics Laboratory.
1999-2000 Environmental Engineer, Naval Facilities Engineering Service Center
1998-1999 Environmental Educator, U.S. Peace Corps Macedonia
1997-1998 Environmental Engineering Technician, Alt & Witzig Engineering

RESEARCH INTERESTS

Coastal physical oceanography and biophysical interactions, including: the physical mechanisms of across shelf exchange, the role of turbulence in inner-shelf circulation dynamics, and the effects of lateral exchange and spatial variability on the total transport across the shelf. Instrument and technique development related to acoustic Doppler current profilers and high frequency coastal radar systems.

PUBLICATIONS

Submitted:

- Kirincich, A., and S. Lentz 2016. The Importance of Lateral Variability on Exchange Across the Inner Shelf South of Martha's Vineyard, MA, *Journal of Geophysical Research: Oceans* (submitted).
Kirincich, A., 2016c. Improved Detection of the First Order Region for Direction Finding HF Radars using Image Processing Techniques. *Journal of Atmospheric and Oceanic Technology*. (submitted).
Brink, K.H. and A. R. Kirincich, 2016. Coastal Ocean Observing Systems. Book chapter for *The SEA* volume on Ocean Prediction and Observing systems. *Contribution: co-authored the manuscript, adding ~40% of the content.*

Peer reviewed:

- Kirincich, A., 2016b, The Occurrence, Drivers, and Implications of Submesoscale Eddies on the Martha's Vineyard Inner Shelf, *Journal of Physical Oceanography*, 46, 2645-2662.
Kirincich, A., 2016a. Remote sensing of the surface wind field over the coastal ocean via direct calibration of HF radar backscatter power. *Journal of Atmospheric and Oceanic Technology*, 33(7),

1377-1392.

- Kirincich, A.R., and G. Gawarkiewicz, 2016. Drivers of spring and summer variability in the coastal ocean offshore of Cape Cod, MA. *Journal of Geophysical Research: Oceans*, 121(3), 1789-1805.
- Rypina, I.I., A. Kirincich, S. Lentz, and M. Sundermeyer, 2016. Investigating the eddy diffusivity concept in the coastal ocean. *Journal of Physical Oceanography*, 46(7), 2201-2218. *Contribution: Collected and performed all analysis of the HF radar data set, co-authored manuscript text.*
- Rypina, I., A. R. Kirincich, R. Limeburner, and I. Udovydchenkov, 2014. Eulerian and Lagrangian correspondence of high-frequency radar and surface drifter data: Effects of radar resolution and flow components, *J. Atmos. Oceanic Technol.*, 31, 945—966. *Contribution: Collected and performed all analysis of the HF radar data set, co-authored manuscript text.*
- Kirincich, A. R., 2013. Long-term observations of turbulent Reynolds stresses over the inner continental shelf. *Journal of Physical Oceanography*, 43, 2752—2771.
- Kirincich, A. R., 2013. Toward real-time, remote observations of the coastal wind resource using High Frequency Radar. *Marine Technology Society Journal*, 47-4, 206—217.
- Kirincich, A. R., S. J. Lentz, J. T. Farrar, and N. Ganju, 2013. The spatial structure of tidal and mean circulation over the inner shelf south of Martha's Vineyard, MA. *Journal of Physical Oceanography*, 43, 1940-1958.
- Kirincich, A. R., T. dePaolo, and E. Terrill, 2012. Improving HF radar estimates of surface currents using signal quality metrics, with application to the MVCO high resolution radar system, *Journal of Atmospheric and Oceanic Technology*, 29, 1377—1390.
- Ganju, N. K., S. J. Lentz, A. R. Kirincich, and J. T. Farrar, 2011. Complex mean circulation over the inner shelf south of Martha's Vineyard revealed by observations and a high-resolution model. *J. Geophys. Res.*, 116, C10036, doi:10.1029/2011JC007035. *Contribution: Collected and performed all analysis of the HF radar data included in manuscript, provided feedback to lead author throughout process.*
- Kirincich, A. R., and J. H. Rosman, 2011. A comparison of methods for estimating stresses from ADCP measurements in wavy environments. *Journal of Atmospheric and Oceanic Technology*, 28, 1539—1553.
- Kirincich, A. R., S. J. Lentz, and G. Gerbi, 2010. Calculating Reynolds stresses from ADCP measurements in the presence of surface gravity waves using the modeled cospectra method. *Journal of Atmospheric and Oceanic Technology*, 27, 889—907.
- Woodson, C. B., L. Washburn, J. A. Barth, D. J. Hoover, A. R. Kirincich, M. A. McManus, J. P. Ryan, and J. Tyburczy, 2009. Northern Monterey Bay upwelling shadow front: Observations of a coastally- and surface-trapped buoyant plume. *Journal of Geophysical Research*. 114, C12013. *Contribution: Planned and executed the moored and shipboard observations used in the analysis, provided feedback to lead author throughout process.*
- Kirincich, A. R., S. J. Lentz, and J. A. Barth. 2009. Observations of undertow on the inner-shelf: application to the central Oregon coast. *Journal of Physical Oceanography*, 39, 2942—2956.
- Dudas, S. E., B. A. Grantham, A. R. Kirincich, B. A. Menge, and J. Lubchenco, 2009. Current reversals as determinants of intertidal recruitment on the central Oregon coast: differential effects on barnacles and mussels. *Journal of Marine Science*, 66, 396—407. *Contribution: Planned and executed much of the moored and shipboard observations used in the analysis, aided in the analysis of the dataset, and provided feedback to lead author throughout process.*
- Kirincich, A. R., and J. A. Barth. 2009. Wave-driven inner-shelf motions on the Oregon Coast, *Journal of Physical Oceanography*, 39, 1380—1398. (<http://dx.doi.org/10.1175/2009JPO4041.1>)
- Kirincich, A. R., and J. A. Barth. 2009. Time-varying across-shelf Ekman transport and vertical eddy viscosity on the inner-shelf. *Journal of Physical Oceanography*, 39, 602—620.
- Chan, F., J. A. Barth, J. Lubchenco, A. R. Kirincich, H. A. Weeks, W.H. Peterson and B.A. Menge. 2008.

Novel emergence of anoxia in the California Current System. *Science*, 319, 920. *Contribution: Responsible for the processing and analysis of the inner shelf CTD data set utilized, provided feedback to lead author throughout process.*

Barth, J. A., B. A. Menge, J. Lubchenco, F. Chan, J. M. Bane, A. R. Kirincich, M. A. McManus, K. J. Nielsen, S. D. Pierce and L. Washburn, 2007. Delayed upwelling alters nearshore coastal ocean ecosystems in the northern California Current. *Proceedings of the National Academy of Sciences*, 104, 3710—3724. *Contribution: Responsible for the processing and analysis of the inner shelf CTD data set utilized, provided feedback to lead author throughout process.*

Woodson, C.B., and others, 2007. Local diurnal upwelling driven by sea breezes in northern Monterey Bay. *Continental Shelf Research*, 27, 2289-2302. *Contribution: Ran shipboard data collection for 3 weeks of day trips, processed datasets, contributed to analysis and edited the manuscript.*

Kirincich, A. R., J. A. Barth, B. A. Grantham, B. A. Menge, and J. Lubchenco, 2005. Wind-driven inner-shelf circulation off central Oregon during summer. *Journal of Geophysical Research*, 110, C10S03, doi.10.29/2004JC002611.

Kirincich, A. R. and D. Hebert, 2005. The structure of the coastal density front at the outflow of Long Island Sound during spring 2002. *Continental Shelf Research*, 25, 1097—1114.

Non-peer reviewed:

Kirincich, A. 2016. Remote Sensing of the Surface Wind Field over the Coast Ocean via Direct Calibration of HF Radar Backscatter Power. Final report to the Massachusetts Clean Energy Center, March 2016.

de Paolo, T., E. Terrill, and A. Kirincich. Improving SeaSonde Radial Velocity Accuracy and Variance using Radial Metrics. MTS/IEEE Oceans15 Genova Proceedings, May 18-21, 2015.

Kirincich, A. R., E. Terray, 2014. Wind, wave, and current observations in the Massachusetts RFI Area using High Frequency Radar. Final Report. New England Marine Renewable Energy Center (MREC), January 2014 , 20p.

Kirincich, A. R., B. Hodges, D. Fratantoni, and F. Bahr, 2009. OC-449 Data Report: St. Thomas, USVI to Bermuda, December 1-10, 2008: WHOI Technical Report, June 17, 2009.

Kirincich, A. R., 2007. Inner-shelf circulation along the central Oregon coast. Ph.D. thesis, Oregon State University.

Kirincich, A. R., 2003. The structure and variability of a coastal density front. Masters thesis, University of Rhode Island.

Kirincich, A.R., and D. Hebert, 2002. NOPP Front Resolving Observational Network with Telemetry (FRONT) Project Frontal Scale Hydrographic Surveys: GSO Technical Report, Reference No. 2002-01.

TEACHING ACTIVITIES

2014-2016	Instructor, MIT-WHOI Joint Program, Elements of Modern Oceanography
Summer 2016	Summer Student Fellow advisor to Kendra Lynn
2014-2015	WHOI Postdoc Scholar mentor to Tom Connolly
Summer 2014	Summer Student Fellow advisor to Sam Kasner
Fall 2012	Instructor, MIT-WHOI Joint Program, Introduction to Oceanography
2009-2014	Guest lecturer, MIT-WHOI Joint program. Introduction to Physical Oceanography and Coastal Oceanography.
Summer 2011	Joint program student summer advisor to Anna Wargula

- Spring 2009 Instructor, Massachusetts Maritime Academy, Introduction to Oceanography
- Summer 2006 Teaching Assistant, Coastal Physical Oceanography and Marine Ecosystems, University of California at Santa Cruz.
- Fall 2004 Teaching Assistant, Oregon State University, Introduction to Physical Oceanography.

LECTURES

- February 2016, Woods Hole Oceanographic Institution, Physical Oceanographic Department Seminar, *Small Scale Eddies on the Martha's Vineyard Inner Shelf.*
- January, 2016. University of Massachusetts at Dartmouth, Marine Science Department Seminar, *Small Scale Eddies on the Martha's Vineyard Inner Shelf.*
- October 2015, Oregon State University, Physical Oceanography Seminar, *Small scale variability over the inner shelf: implications for exchange.*
- September 2015. University of Delaware Marine Science Department Seminar, *Small scale variability over the inner shelf: implications for exchange.*
- August 2015. Woods Hole Oceanographic Institution, Applied Ocean Physics and Engineering Coastal Ocean Fluid Dynamics Laboratory Seminar. *HF Radar based observations of surface winds.*
- March 2015 Woods Hole Oceanographic Institution, Physical Oceanographic Department Seminar, Short Talks. *Assessing the role of spatial variability in exchange across the inner shelf.*
- November 2013. Rutgers University, Department of Marine Science Seminar, *The spatial structure of tidal and mean circulation over the inner shelf south of Martha's Vineyard.*
- December 2012. Woods Hole Oceanographic Institution, Physical Oceanographic Department Seminar. *The spatial structure of tidal and mean circulation over the inner shelf south of Martha's Vineyard, MA.*
- May 2011. Woods Hole Oceanographic Institution, Applied Ocean Physics and Engineering Coastal Ocean Fluid Dynamics Laboratory Seminar. *High frequency radar and measuring surface currents at MVCO: Techniques for improved data quality.*
- February 2010. Woods Hole Oceanographic Institution, Applied Ocean Physics and Engineering Coastal Ocean Fluid Dynamics Laboratory Seminar. *A comparative study of stress estimation methods for a wavy environment.*
- April 2009. Skidaway Institute of Oceanography Seminar: *Coastal ocean dynamics using ADCP-based Reynolds stresses.*
- March 2009. Woods Hole Oceanographic Institution, Physical Oceanographic Department Seminar. *Coastal ocean dynamics using ADCP-based Reynolds stresses.*
- March 2009. University of Connecticut, Department of Marine Science Seminar. *Coastal ocean dynamics using ADCP-based Reynolds stresses.*
- October 2008. MIT Oceanography and Climate Sack Lunch Seminar: *Calculating Reynolds stresses from ADCP measurements in the presence of waves using the modeled cospectra method.*
- October 2008. Woods Hole Oceanographic Institution, Physical Oceanographic Department Seminar. *Calculating Reynolds stresses from ADCP measurements in the presence of waves using the modeled cospectra method.*
- October 2008. University of Rhode Island Physical Oceanography Department Seminar: *Calculating Reynolds stresses from ADCP measurements in the presence of waves using the modeled cospectra method.*
- March 2008. Woods Hole Oceanographic Institution, Applied Ocean Physics and Engineering Coastal Ocean Fluid Dynamics Laboratory Seminar. *Calculating Reynolds stresses from ADCP measurements in the presence of waves at MVCO.*

- February 2008. San Francisco State University Geosciences Department seminar. *Inner-shelf circulation along the central Oregon coast.*
- December 2007. Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO) Scientific Symposium. *The control of variable inner-shelf circulation on along-shelf biological distributions, on the central Oregon coast.*
- October 2007. Woods Hole Oceanographic Institution, Physical Oceanographic Department Seminar. *Inner-shelf circulation along the central Oregon coast.*
- April 2007. University of North Carolina Institute of Marine Sciences. *Inner-shelf circulation along the central Oregon coast.*

CONFERENCE PROCEEDINGS

(presenting author only)

- Kirincich, A. The occurrence, drivers, and implications of sub-mesoscale eddies on the Martha's Vineyard inner shelf, Liege Colloquium on Submesoscale Processes: Mechanisms, Implications And New Frontiers, May 2016.
- I. Rypina, A. Kirincich, S. Lentz, and M. Sundermeyer, Investigating the eddy diffusivity concept in the coastal ocean, Liege Colloquium on Submesoscale Processes: Mechanisms, Implications And New Frontiers, May 2016.
- Kirincich, A. The occurrence, drivers, and implications of sub-mesoscale eddies on the Martha's Vineyard inner shelf, Ameri-Mech Symposium on Fluid Transport and Nonlinear Dynamics, May 17-20, 2016
- Kirincich, A. High resolution remote observations of oceanic surface winds using HF Radar, Wind Energy Research Workshop, March 15-16th, 2016.
- Kirincich, A., A. Mooney, D. Lizarralde, A. Newhall, Y.T. Lin, Capabilities of the Woods Hole Oceanographic Institution in support of the Offshore Wind Energy community. Wind Energy Research Workshop, March 15-16th, 2016.
- Kirincich, A. and S.J. Lentz, The Importance of Lateral Variability on Exchange Across the Inner Shelf. Ocean Sciences 2016, February 2016.
- Kirincich, A., WHOI HFR QAQC techniques, revisited, Radiowave Operators Working Group (ROWG) meeting, Nov, 2015.
- Kirincich, A., HF Radar based observations of surface winds, Radiowave Oceanography Workshop (ROW), meeting, Nov. 2015.
- Kirincich A.R., S.J. Lentz, and I. Rypina, Assessing the role of spatial variability in exchange across the inner shelf, and quantifying the effects of HFR resolution on accuracy. Radiowave Oceanography Workshop (ROW), May 2014.
- Kirincich, A.R., Improving the first order region limits for direction finding HF radar. Radiowave Operators Working Group (ROWG) March 2014.
- Kirincich, A.R. and S.J. Lentz, Assessing the role of spatial variability in exchange across the inner shelf: Results from a high resolution HF radar system. Ocean Sciences. Feb 2014.
- Kirincich, A.R. and G. Gawarkiewicz, Reynolds Stresses and Pressure Gradients in the Outer Cape Coastal Current, Mid-Atlantic Bight Physical Oceanography and Meteorology (MABPOM) Meeting, Oct. 2013.
- Kirincich, A. R. Toward real-time, remote observations of the coastal wind resource using High Frequency Radar. Energy Oceans, Conference. June 11th, 2013.
- Kirincich, A. R. Exploiting high frequency radar to measure surface winds and waves in the

- Massachusetts RFI area. 4th Annual Marine Renewable Energy Technical Conference. January 10th, 2013.
- Kirincich, A. R. Improved first order region delineation for direction finding HF radars. Radiowave Operators Working Group (ROWG) 6 meeting. November 14th, 2012.
- Kirincich, A. R., S. J. Lentz, J. T. Farrar, and N. Ganju. The spatial structure of tidal and mean circulation over the inner shelf south of Martha's Vineyard, MA. Middle Atlantic Bight Physical Oceanographic and Meteorology Meeting. November 7th, 2012.
- Kirincich, A. R. Improved data quality techniques for extracting surface current measurements from HF radar observations. Radiowave Oceanography Workshop (ROW) 2012 meeting. April 26th, 2012.
- Kirincich, A. R. Long-term observations of turbulent Reynolds stresses over the inner continental shelf. Ocean Science 2012 Meeting. Feb. 19th, 2012.
- Kirincich, A. R. Installation of the Martha's Vineyard High Resolution High Frequency Radar System. Radiowave Operators Working Group (ROWG) 5 2011 meeting. April 26th, 2011.
- Kirincich, A. R. The spatial structure of surface currents in the inner-shelf south of Martha's Vineyard, using coastal high frequency radar. Mid Atlantic Bight Physical Oceanographic and Meteorology Meeting. October 25th 2010.
- Kirincich, A. R. and J. Rosman. A comparative study of stress estimation methods for a wavy environment. Ocean Science 2010 Meeting. February 24th, 2010.
- Kirincich, A. R., S. J. Lentz, and G. Gerbi. Calculating Reynolds stresses from ADCP measurements in the presence of surface gravity waves using the cospectra-fit method. Gordon Research Conference on Coastal Oceanography. June 6th, 2009.
- Kirincich, A. R., S. J. Lentz, and G. Gerbi. Calculating Reynolds stresses from ADCP measurements in the presence of surface gravity waves using the cospectra-fit method. AGU Fall Meeting. December 10th, 2009.
- Kirincich, A. R. and J. A. Barth. Time-varying across-shelf Ekman transport and vertical eddy viscosity on the inner-shelf. AGU Ocean Science 2008 Meeting. March 5th, 2008.
- Kirincich, A. R., S. J. Lentz, and G. Gerbi. Using ADCP velocity profiles to estimate Reynolds stress in the coastal ocean. WHOI Postdoc Symposium. October 31st, 2007.
- Kirincich, A. R. and J. A. Barth. Time-varying across-shelf Ekman transport and vertical eddy viscosity on the inner-shelf. Eastern Pacific Ocean Conference. September 18th, 2007.
- Kirincich, A. R. and J. A. Barth. Effects of surface-gravity waves on inner-shelf circulation along the central Oregon coast during summer. AGU Fall Meeting. December 15th, 2006.
- Kirincich, A. R. and J. A. Barth. The variability of inner-shelf circulation along the central Oregon coast during summer. Eastern Pacific Ocean Conference. September 27th, 2006.
- Kirincich, A. R. and J. A. Barth. The variability of inner-shelf circulation along the central Oregon coast during summer. AGU Ocean Science Meeting. February 16th, 2006.
- Kirincich, A. R. and J. A. Barth. Wind-driven inner-shelf circulation off central Oregon during summer. Eastern Pacific Ocean Conference. September 17th, 2004.
- Kirincich, A. R., J. A. Barth, B. A. Menge, and J. Lubchenco. Wind-driven inner-shelf circulation off central Oregon during summer. AGU Ocean Science Meeting. February 6th, 2004.
- Kirincich, A. R., J. A. Barth, B. A. Menge, and J. Lubchenco. Wind-driven inner-shelf circulation off central Oregon during summer. Eastern Pacific Ocean Conference. September 25th, 2003.

CRUISE PARTICIPATION

- R/V Tioga: 4 days of instrument deployments, recoveries and surveys, MVCO 2016. Chief Scientist: A. Kirincich.
- R/V Tioga: 6 days of mooring recoveries and surveys, MVCO 2015. Chief Scientist: A. Kirincich.
- R/V Tioga: 12 days of mooring deployments and surveys, MVCO 2014. Chief Scientist: A. Kirincich.
- R/V Revelle: Leg 3 of the Mesoscale Variability in the Northern South China Sea Pilot Study. Chief Scientist; C. Lee.
- R/V Tioga: Towed body testing, Mass. Bay. 2013. Chief Scientist: A. Kirincich.
- R/V Tioga: maintenance operations to MVCO's Air-Sea interaction Tower. 2012. Chief Scientist: A. Kirincich.
- R/V Tioga: 4 days of CTD cast surveys, mooring recoveries, deployments, and REMUS operations in the Outer Cape Coastal Current. 2011. Chief Scientists: G. Gawarkiewicz and A. Kirincich.
- R/V Tioga: 2 days, hydrographic and velocity survey of the shelf break front south of New England. July 2011. Chief Scientist: G. Gawarkiewicz.
- R/V Tioga: 3 days of high frequency radar antenna calibration off Martha's Vineyard, 2 days of maintenance operations to MVCO's Air-Sea interaction Tower. 2010-2011. Chief Scientist: A. Kirincich.
- R/V Tioga: 6 days of CTD cast surveys, towed vehicle surveys, mooring deployments, and REMUS operations in the Outer Cape Coastal Current. 2011. Chief Scientist: G. Gawarkiewicz and A. Kirincich.
- R/V Tioga: 8 days of CTD cast surveys, towed vehicle surveys, mooring deployments, and REMUS operations in the Outer Cape Coastal Current. 2010. Chief Scientist: G. Gawarkiewicz and A. Kirincich.
- R/V Connecticut: 3 days of REMUS 6000 operations and CTD cast surveys to the NE-MAB shelf break, November, 2009. Chief Scientist: G. Gawarkiewicz.
- R/V Tioga: 2 days of CTD cast surveys and REMUS operations in the Outer Cape Coastal Current. July, 2009. Chief Scientist: G. Gawarkiewicz.
- F/V Maggie May: 8 days of CTD cast surveys and Glider operations off Southwest Oahu, HI. February, 2009. Chief Scientist: G. Gawarkiewicz.
- R/V Oceanus: 7 days of Scanfish equipment test, biological sampling, and VPR surveys of the Antilles shelf off St. Thomas, December, 2008. Chief Scientist: D. Fratantoni.
- R/V Tioga: 2 days of CTD cast surveys of the Maine Coastal Current near Stellwagen Bank, July, 2008. Chief Scientist: G. Gawarkiewicz.
- R/V Tioga: 4 days of mooring operations off Martha's Vineyard, 2007-2008. Chief Scientist: S. Lentz.
- R/V Kalipi: 10 days of coastal work during July 2007 off Santa Cruz, CA collecting high-resolution hydrography in a Marine Sanctuary. Chief Scientist: A. Kirincich.
- R/V Wecoma: 3-day cruise to the Oregon shelf in July 2006, mooring operations and CTD cast surveys. Chief Scientist: J. Barth.
- R/V Elakha: 30-40 days on the Oregon inner-shelf during 2002-2007 collecting hydrographic data (CTD and towed body), deploying/recovering moorings or gliders. Chief Scientist: various.
- R/V Connecticut: 5 2-day cruises in 2001-2002 to the Mid-Atlantic Bight collecting high resolution hydrographic data using a towed, undulating body. Chief Scientist: D. Hebert.

PROFESSIONAL ACTIVITIES

Society memberships: American Geophysical Union.

Reviewer: Journal of Geophysical Research-Oceans, National Science Foundation, Journal of Physical Oceanography, Journal of Atmospheric and Oceanic Technology, Geophysical Research Letters, Marine Ecology Progress Series. Ocean Sciences.

Session Chair: OS161: Characterizing the variability of the coastal ocean and its implications: Ocean Sciences 2012 meeting. OS16—Coastal Ocean Processes. AGU 2008 Fall Meeting; Topic S6—Larval Dispersal and Recruitment: What are the underlying mechanisms? PISCO Scientific Symposium; Session 176—The Inner Shelf: Connecting the Shore to the Coastal Ocean. Ocean science 2008.

WHOI Committees: Physical Oceanography Search Committee, 2009-2011. WHOI Postdoctoral Association, 2007-2009. Ad hoc committees for Ocean and Climate Change Institute, 2011; Green Technology Awards, 2012; Ocean Life Institute, 2016.

External Committees/Boards: Board Member of the Northeastern Regional Association Coastal and Ocean Observing systems (NERACOOS) 2011-present; Secretary, 2012-present; Strategic Planning and Implementation (SPI) Team Chair (2014-present). Representative to the Mid-Atlantic Regional Association Coastal and Ocean Observing systems (MARACOOS), 2012-present. Representative to the Massachusetts Research Partnership on Offshore Wind Energy, 2016. Radiowave Operators Working Group (ROWG) member.

Community activities: Drifter building workshop (May 2013), Public presentations: Long Point Wildlife Refuge, 2010-2011. Boston Public Schools, 2011-2012. Judge: Tangent Elementary Science Fair (2004-2007), Ocean Science Bowl (2002, 2004). Proposal reviewer: NSF, NOAA Sea Grant, NOAA SBIR. Schmidt Ocean Institute.