

ROBERT E. TODD

WOODS HOLE OCEANOGRAPHIC INSTITUTION · 266 WOODS HOLE RD., MS#21 · WOODS HOLE, MA 02543

PHONE: (508) 289-2533 · EMAIL: RTODD@WHOI.EDU · HTTP://RTODD.WHOI.EDU

RESEARCH INTERESTS

Boundary, coastal, and equatorial current systems (e.g., Gulf Stream and Loop Current, the California Current System, Middle Atlantic Bight shelf break, Pacific Equatorial Undercurrent, Indian equatorial currents), upper ocean processes, thermohaline structure, autonomous observations.

APPOINTMENTS

- Associate Scientist (8/2017–present, tenure awarded 7/2021), Assistant Scientist (9/2013–8/2017), Postdoctoral Investigator (11/2012–9/2013), Postdoctoral Scholar (5/2011–11/2012), Physical Oceanography Department, Woods Hole Oceanographic Institution, Woods Hole, MA
- Graduate Research Assistant (7/2005–5/2011), Scripps Institution of Oceanography, La Jolla, CA

EDUCATION

- PhD, Oceanography (4/2011), MS, Oceanography (12/2006), Scripps Institution of Oceanography, UC San Diego
- BS, Physics, Applied Mathematics, and Marine Science (5/2005), North Carolina State University

PUBLICATIONS

Refereed Publications:

36. Seim, H.E., and 11 Co-Authors including **R.E. Todd** (2022), Overview of the Processes driving Exchange At Cape Hatteras (PEACH) project, *Oceanography*, 35(2), 6–17, <https://doi.org/10.5670/oceanog.2022.205>.
35. Jakoboski, J.*, **R.E. Todd**, W.B. Owens, K.B. Karnauskas, D.L. Rudnick (2022), Potential vorticity and instability in the equatorial undercurrent west of the Galápagos Archipelago, *J. Phys. Oceanogr.*, 52(8), 1927–1943, <https://doi.org/10.1175/JPO-D-21-0124.1>.
34. Miles, T.N., and 25 Co-Authors including **R.E. Todd** (2021), Uncrewed ocean gliders and saildrones support hurricane forecasting and research, Pp. 78–81 in *Frontiers in Ocean Observing: Documenting Ecosystems, Understanding Environmental Changes, Forecasting Hazards*. E.S. Kappel, S.K. Juniper, S. Seeyave, E. Smith, and M. Visbeck, eds., A Supplement to *Oceanogr.* 34(4), <https://doi.org/10.5670/oceanog.2021.supplement.02-28>.
33. Shroyer, E., and 49 Co-Authors including **R.E. Todd** (2021), Bay of Bengal intraseasonal oscillations and the 2018 monsoon onset, *Bull. Am. Meteor. Soc.*, 102(10), E1936–E1951, <https://doi.org/10.1175/BAMS-D-20-0113.1>.
32. Han, L., H. Seim, J. Bane, **R.E. Todd**, M. Muglia (2021), A shelf water cascading event near Cape Hatteras, *J. Phys. Oceanogr.*, 51(6), 2021–2033, <https://doi.org/10.1175/JPO-D-20-0156.1>.
31. **Todd, R.E.** (2021b), Gulf Stream mean and eddy kinetic energy: Three-dimensional estimates from underwater glider observations, *Geophys. Res. Lett.*, 48(6), e2020GL090281, <https://doi.org/10.1029/2020GL090281>.
30. Rudnick, D.L., W.B. Owens, T.M.S. Johnston, K.B. Karnauskas, J. Jakoboski, **R.E. Todd** (2021), The equatorial current system west of the Galápagos Islands during the 2014–2016 El Niño as observed by underwater gliders, *J. Phys. Oceanogr.*, 51(1), 3–17, <https://doi.org/10.1175/JPO-D-20-0064.1>.

*Student advised by R.E. Todd

29. Karnauskas, K.B., J. Jakoboski, T.M.S. Johnston, W.B. Owens, D.L. Rudnick, **R.E. Todd** (2020), The Pacific equatorial undercurrent in three generations of global climate models and glider observations, *J. Geophys. Res.*, 125, e2020JC016609, <https://doi.org/10.1029/2020JC016609>.
28. Heiderich, J.*, **R.E. Todd** (2020), Along-stream evolution of Gulf Stream volume transport, *J. Phys. Oceanogr.*, 50(8), 2251–2270, <https://doi.org/10.1175/JPO-D-19-0303.1>.
27. **Todd, R.E.** (2020d), Export of Middle Atlantic Bight shelf waters near Cape Hatteras from two years of underwater glider observations, *J. Geophys. Res.: Oceans*, 125, e2019JC016006, <https://doi.org/10.1029/2019JC016006>.
26. **Todd, R.E.** (2020c), Equatorial circulation in the western Indian Ocean during onset of the 2018 summer monsoon and links to the Bay of Bengal, *Geophys. Res. Lett.*, 47, e2020GL087215, <https://doi.org/10.1029/2020GL087215>.
25. Jakoboski, J.*, **R.E. Todd**, W.B. Owens, K.B. Karnauskas, D.L. Rudnick (2020), Bifurcation and upwelling of the Equatorial Undercurrent west of the Galápagos Archipelago, *J. Phys. Oceanogr.*, 50, 887–905, <https://doi.org/10.1175/JPO-D-19-0110.1>.
24. Goni, G.J., and 25 Co-Authors including **R.E. Todd** (2019), More than 50 years of successful continuous temperature section measurements by the Global Expendable Bathythermograph Network, its integrability, societal benefits, and future, *Front. Mar. Sci.*, 6:452, <https://doi.org/10.3389/fmars.2019.00452>.
23. Domingues, R., and 28 Co-Authors including **R.E. Todd** (2019), Ocean observations in support of studies and forecasts of tropical and extratropical cyclones, *Front. Mar. Sci.*, 6:446, <https://doi.org/10.3389/fmars.2019.00446>.
22. Subramanian, A., and 28 Co-Authors including **R.E. Todd** (2019), Ocean observations to improve our understanding, modeling, and forecasting of subseasonal-to-seasonal variability, *Front. Mar. Sci.*, 6:427, <https://doi.org/10.3389/fmars.2019.00427>.
21. **Todd, R.E.**, and 70 Co-Authors (2019), Global perspectives on observing ocean boundary current systems, *Front. Mar. Sci.*, 6:423, <https://doi.org/10.3389/fmars.2019.00423>.
20. Testor, P., and 100 Co-Authors* including **R.E. Todd** (2019), OceanGliders: a component of the integrated GOOS, *Front. Mar. Sci.*, 6:422, <https://doi.org/10.3389/fmars.2019.00422>.
19. Szuts, Z.B., and 12 Co-Authors including **R.E. Todd** (2019), The scientific and societal uses of global measurements of subsurface velocity, *Front. Mar. Sci.*, 6:358, <https://doi.org/10.3389/fmars.2019.00358>.
18. Gula, J., T.M. Blacic, **R.E. Todd** (2019), Submesoscale coherent vortices in the Gulf Stream, *Geophys. Res. Lett.*, 46, 2704–2714, <https://doi.org/10.1029/2019GL081919>.
17. **Todd, R.E.**, T.G. Asher, J. Heiderich*, J.M. Bane, R.A. Luetlich (2018b), Transient response of the Gulf Stream to multiple hurricanes in 2017, *Geophys. Res. Lett.*, 45, 10,509–10,519, <https://doi.org/10.1029/2018GL079180>.
16. Gawarkiewicz, G., **R.E. Todd**, W. Zhang, J. Partida, A. Gangopadhyay, M.-U.-H. Monim, P. Fratantoni, A.M. Mercer, M. Dent (2018), The changing nature of shelfbreak exchange revealed by the OOI Pioneer Array, *Oceanography*, 31(1), 60–70, <https://doi.org/10.5670/oceanog.2018.110>.
15. Goni, G.J., **R.E. Todd**, and 22 Co-Authors* (2017b), Autonomous and Lagrangian ocean observations for Atlantic tropical cyclone studies and forecasts, *Oceanography*, 30(2), 92–103, <https://doi.org/10.5670/oceanog.2017.227>.
14. **Todd, R.E.** and L. Locke-Wynn (2017), Underwater glider observations and the representation of western boundary currents in numerical models, *Oceanography*, 30(2), 88–89, <https://doi.org/10.5670/oceanog.2017.225>.
13. Centurioni, L., and 33 Co-Authors including **R.E. Todd** (2017), Northern Arabian Sea Circulation—autonomous research (NASCar): A research initiative based on autonomous sensors, *Oceanography*, 30(2), 74–87, <https://doi.org/10.5670/oceanog.2017.224>.

12. **Todd, R.E.** (2017b), High-frequency internal waves and thick bottom mixed layers observed by gliders in the Gulf Stream, *Geophys. Res. Lett.*, 44, 6316–6325, <https://doi.org/10.1002/2017GL072580>.
11. Rudnick, D.L., K. Zaba, **R.E. Todd**, R.E. Davis (2017), A climatology of the California Current System from a network of underwater gliders, *Prog. Oceanogr.*, 154, 64–106, <https://doi.org/10.1016/j.pocean.2017.03.002>.
10. **Todd, R.E.**, D.L. Rudnick, J.T. Sherman, W.B. Owens, L. George (2017), Absolute velocity estimates from autonomous underwater gliders equipped with Doppler current profilers, *J. Atmos. Oceanic Technol.*, 34(2), 309–333, <https://doi.org/10.1175/JTECH-D-16-0156.1>.
9. **Todd, R.E.**, W.B. Owens, D.L. Rudnick (2016), Potential vorticity structure in the North Atlantic western boundary current from underwater glider observations, *J. Phys. Oceanogr.*, 46(1), 327–348, <https://doi.org/10.1175/JPO-D-15-0112.1>.
8. Cenedese, C., **R.E. Todd**, G.G. Gawarkiewicz, W.B. Owens, A.Y. Shcherbina (2013), Offshore transport of shelf waters through interaction of vortices with a shelfbreak current, *J. Phys. Oceanogr.*, 43(5), 905–919, <https://doi.org/10.1175/JPO-D-12-0150.1>.
7. **Todd, R.E.**, G.G. Gawarkiewicz, W.B. Owens (2013), Horizontal scales of variability over the Middle Atlantic Bight shelf break and continental rise from finescale observations, *J. Phys. Oceanogr.*, 43(1), 222–230, <https://doi.org/10.1175/JPO-D-12-099.1>.
6. Gawarkiewicz, G.G., **R.E. Todd**, A.J. Plueddemann, M. Andres, J.P. Manning (2012), Direct interaction between the Gulf Stream and the shelfbreak south of New England, *Sci. Rep.*, 2, 553, <https://doi.org/10.1038/srep000553>.
5. **Todd, R.E.**, D.L. Rudnick, M.R. Mazloff, B.D. Cornuelle, R.E. Davis (2012), Thermohaline structure in the California Current System: observations and modeling of spice variance, *J. Geophys. Res.: Oceans*, 117, C02008, <https://doi.org/10.1029/2011JC007589>.
4. Johnston, T.M.S., D.L. Rudnick, G.S. Carter, **R.E. Todd**, S.T. Cole (2011), Internal tidal beams and mixing near Monterey Bay, *J. Geophys. Res.: Oceans*, 116, C03017, <https://doi.org/10.1029/2010JC006592>.
3. **Todd, R.E.**, D.L. Rudnick, M.R. Mazloff, R.E. Davis, B.D. Cornuelle (2011b), Poleward flows in the southern California Current System: Glider observations and numerical simulation, *J. Geophys. Res.: Oceans*, 116, C02026, <https://doi.org/10.1029/2010JC006536>.
2. **Todd, R.E.**, D.L. Rudnick, R.E. Davis, M.D. Ohman (2011a), Underwater gliders reveal rapid arrival of El Niño effects off California’s coast, *Geophys. Res. Lett.*, 38, L03609, <https://doi.org/10.1029/2010GL046376>.
1. **Todd, R.E.**, D.L. Rudnick, R.E. Davis (2009), Monitoring the greater San Pedro Bay region using autonomous underwater gliders during fall of 2006, *J. Geophys. Res.: Oceans*, 114, C06001, <https://doi.org/10.1029/2008JC005086>.

Manuscripts under Review:

2. **R.E. Todd**, A.S. Ren[†], Poleward shift of a warmer Gulf Stream from in situ observations since 2001, submitted to *Nat. Clim. Change*.
1. Mao, S., R. He, J.M. Bane, G.G. Gawarkiewicz, **R.E. Todd**, A data-assimilative modeling investigation of Gulf Stream variability, submitted to *Deep-Sea Res. II*.

Manuscripts in Preparation:

2. Testor, P., et al., Towards OceanGliders best practices and standards, in preparation for *Front. Mar. Sci*.

[†]Postdoc advised by R.E. Todd

1. **R.E. Todd**, K.R. Kausch*, Characterizing the impact of underwater glider observations on the Navy Coastal Ocean Model (NCOM) in the Gulf Stream region, in preparation for *J. Operational Oceanography*.

Book Chapters:

1. Quattrini, A.M., M.S. Nizinski, J.J. Lunden, F. Mienis, C.L. Morrison, L. Sautter, H. Seim, **R.E. Todd**, J. Reed, Cold-water coral reefs of the southeastern United States, book chapter accepted for a volume on cold-water corals, edited by E. Cordes and F. Mienis.

Other Publications:

16. Pietri, A., A. Bosse, **R.E. Todd**, et al., OceanGliders Depth Average Currents (DACs) Standard Operating Procedures. Available and open for continued revision at https://github.com/OceanGlidersCommunity/DepthAverageCurrents_SOP
15. Giddy, I., et al., OceanGliders Salinity Standard Operating Procedures. Available and open for continued revision at https://github.com/OceanGlidersCommunity/Salinity_SOP.
14. **Todd, R.E.** (2021a), Gulf Stream mean and eddy kinetic energy from Spray underwater glider measurements [Data set], Scripps Institution of Oceanography, Instrument Development Group, <https://doi.org/10.21238/S8SPRAY2675A>.
13. **Todd, R.E.** (2020b), Spray glider observations in support of PEACH [Data set], Scripps Institution of Oceanography, Instrument Development Group, <https://doi.org/10.21238/S8SPRAY0880>.
12. **Todd, R.E.** (2020a), Spray glider observations in support of NASCar [Data set], Scripps Institution of Oceanography, Instrument Development Group, <https://doi.org/10.21238/S8SPRAY0053>.
11. Goni, G.J., and 10 Co-Authors* including **R.E. Todd** (2018), Underwater glider observations for Atlantic tropical cyclone studies and forecasts, in Rudnick, D., D. Costa, C. Lee, M.-L. Timmermans, eds. 2018. *ALPS II—Autonomous and Lagrangian Platforms and Sensors*. A Report of the ALPS II Workshop, 21–24 February 2017, La Jolla, CA, 66 pp.
10. **Todd, R.E.**, D.L. Rudnick, L.R. Centurioni, S.R. Jayne, C.M. Lee (2018a), Boundary current observations with ALPS, in Rudnick, D., D. Costa, C. Lee, M.-L. Timmermans, eds. 2018. *ALPS II—Autonomous and Lagrangian Platforms and Sensors*. A Report of the ALPS II Workshop, 21–24 February 2017, La Jolla, CA, 66 pp.
9. Nidziko, N., C. Edwards, **R. Todd** (2018), ALPS in coastal oceanography, in Rudnick, D., D. Costa, C. Lee, M.-L. Timmermans, eds. 2018. *ALPS II—Autonomous and Lagrangian Platforms and Sensors*. A Report of the ALPS II Workshop, 21–24 February 2017, La Jolla, CA, 66 pp.
8. Lee, C.M., T. Paluszkiwicz, D.L. Rudnick, M.M. Omand, **R.E. Todd** (2017), Autonomous instruments significantly expand ocean observing: An introduction to the special issue on autonomous and Lagrangian platforms and sensors (ALPS). *Oceanography*, 30(2), 15–17, <https://doi.org/10.5670/oceanog.2017.211>.
7. Andres, M., and 11 Co-Authors including **R.E. Todd** (2017), AR-15 Cruise Report: PEACH array deployment cruise.
6. Goni, G.J., and 11 Co-Authors* including **R.E. Todd** (2017a), Underwater glider observations for Atlantic tropical cyclone studies and forecasts, Autonomous and Lagrangian Sensors and Platforms (ALPS II) white paper. Available at <https://alps-ocean.us/white-papers/>.
5. **Todd, R.E.** (2017a), On the potential for sustained Gulf Stream monitoring with autonomous underwater gliders, Autonomous and Lagrangian Sensors and Platforms (ALPS II) white paper. Available at <https://alps-ocean.us/white-papers/>.
4. Rudnick, D.L, K.D. Zaba, **R.E. Todd**, and R.E. Davis (2017), A climatology using data from the

- California Underwater Glider Network [Data set], Scripps Institution of Oceanography, Instrument Development Group, <https://doi.org/10.21238/S8SPRAY7292>.
3. **Todd, R.E.** and W.B. Owens (2016), Gliders in the Gulf Stream [Data set], Scripps Institution of Oceanography, Instrument Development Group, <https://doi.org/10.21238/S8SPRAY2675>.
 2. Carroll, J.W., and 11 Co-Authors including **R.E. Todd** (2014), *A Time Travel Dialogue*. Open Book Publishers. Cambridge, UK. <https://doi.org/10.11647/OBP.0043>.
 1. **Todd, R.E.** (2011), Upper ocean processes observed by underwater gliders in the California Current System, PhD Thesis, Scripps Institution of Oceanography, UC San Diego, 168 pp.

RESEARCH FUNDING

Current:

- mCDR 2023 – Assessing Carbon Dioxide Removal and Ecosystem Response for an Ocean Alkalinity Enhancement Field Trial. D.R. Nicholson, **R.E. Todd**, A. Subhas, Y. Takeshita, K. Zaba. NOAA Ocean Acidification Program / NOPP, \$1,877,644, September 2023–August 2026.
- Autonomous Underwater Gliders for Long-Duration, High-Resolution Surveys of the Upper Ocean. **R.E. Todd**. ONR Defense University Research Instrumentation Program, \$609,474, June 2023–May 2024.
- Enabling Glider-Based Monitoring of pH and CO₂ Uptake in the Gulf Stream. E.A. Smith, **R.E. Todd**, Y. Takeshita. NOAA Ocean Acidification Program and NOAA Uncrewed Systems Operations Center, \$370,000, May 2023–April 2025.
- SWOT Adopt-A-Crossover Field Campaign – Cape Hatteras. **R.E. Todd** and M. Andres. NASA (subcontract from UNC Chapel Hill), \$400,189, November 2022–June 2024.
- Acquisition of a Next-Generation Autonomous Underwater Glider. **R.E. Todd**. ONR Defense University Research Instrumentation Program, \$290,871, April 2022–March 2024.
- BEAM Robot Zero Power. P. Fucile and **R.E. Todd**. WHOI Ocean and Climate Innovation Accelerator Research Awards, \$77,086, December 2021–November 2023.
- Autonomous Observations to Constrain Ocean Variability near Atlantis II Seamount. **R.E. Todd**. ONR Task Force Ocean / New England Seamount Acoustics DRI, \$770,366, April 2021–March 2024.
- Glider Surveys of the Gulf Stream during the 2020–2023 Atlantic Hurricane Seasons. **R.E. Todd**. NOAA Global Ocean Monitoring and Observing Program, \$315,289, July 2020–June 2024.
- Seasonal Evolution of Near-Inertial Shear and Kinetic Energy from Glider Observations. **R.E. Todd**. ONR Near Inertial Shear and Kinetic Energy in the North Atlantic experiment (NISKINE) DRI, \$728,642, May 2018–April 2024.
- Currents, Turbulence, and Hydrography Measured by Gliders during Monsoon Intra-seasonal Oscillations. **R.E. Todd** and L.C. St. Laurent. ONR Oceanic Control of Monsoon Intra-Seasonal Oscillations in the Tropical Indian Ocean and the Bay Of Bengal (MISO-BOB) DRI, \$1,811,520, September 2017–August 2023.

Past:

- Transport and Modification of Near-Surface and Intermediate Waters by the Gulf Stream along the US East Coast. **R.E. Todd**. NSF Physical Oceanography, \$320,497, October 2019–September 2022.
- Glider Surveys of the Gulf Stream during the 2019 Atlantic Hurricane Season. **R.E. Todd**. NOAA Ocean Observing and Monitoring Division, \$60,000, July 2019–June 2020.
- A Global Perspective on Ocean Boundary Observing Systems. **R.E. Todd**. The Andrew W. Mellon Foundation Endowed Fund for Innovative Research, WHOI, \$50,244, July 2018–June 2020.
- Local and Regional Dynamics Influencing Upwelling at the Galápagos Archipelago. J.J. Jakoboski*,

W.B. Owens, **R.E. Todd**. NASA Earth and Space Science Fellowship (NESSF) Program, \$90,000, September 2017–August 2019.

- Autonomous Underwater Gliders with Doppler Current Profilers for Studies of Monsoon-Driven Circulation. **R.E. Todd**. ONR Defense University Research Instrumentation Program, \$290,052, July 2017–July 2018.
- Dynamics of Shelfbreak Processes and Shelf/Slope Exchange South of New England. G.G. Gawarkiewicz, W.G. Zhang, and **R.E. Todd**. NSF Physical Oceanography, \$279,493, May 2017–May 2019.
- Finescale Structure and Dynamics of the Gulf Stream. **R.E. Todd**. NSF Physical Oceanography, \$1,162,494, October 2016–September 2020.
- High-Resolution Observations in the Gulf Stream using Autonomous Underwater Gliders. **R.E. Todd**. ONR Physical Oceanography, \$139,965, August 2016–October 2018.
- Collaborative Research: An Observational and Modeling Study of the Physical Processes Driving Exchanges between the Shelf and the Deep Ocean At Cape Hatteras (PEACH). **R.E. Todd**, M. Andres, G.G. Gawarkiewicz. NSF Physical Oceanography, \$1,865,131, April 2016–March 2022.
- Temporal and spatial variability within the Arabian Sea from autonomous glider observations. **R.E. Todd**. ONR Northern Arabian Sea Circulation–autonomous research (NASCar) DRI, \$543,214, May 2015–November 2019.
- Potential vorticity structure in the North Atlantic western boundary current from underwater glider observations. **R.E. Todd**. WHOI Independent Research and Development, \$38,532, April–December 2015.
- Monitoring the Gulf Stream with autonomous underwater gliders. **R.E. Todd**. Jointly funded by the WHOI Oceans and Climate Change Institute, the W. Van Alan Clark, Jr. Chair for Excellence in Oceanography, Eastman Chemical Company, and NOAA, \$135,401, March 2015–June 2016.
- Integrated rapid-response observations and ocean ensemble optimization to improve storm intensity forecasts in the northeast US (TEMPESTS). G.G. Gawarkiewicz and 18 Co-PIs including **R.E. Todd**. NOAA, \$5,497,000, September 2013–February 2017.
- Advancing glider-based Doppler current estimates: Ground truthing and improving data processing. **R.E. Todd**, W.B. Owens. WHOI Access to the Sea, \$66,964, June 2012–June 2014.

FELLOWSHIPS AND AWARDS

- Postdoctoral Scholarship, Woods Hole Oceanographic Institution, 2011–2012.
- Outstanding Student Paper Award, 2010 American Geophysical Union Fall Meeting.
- Achievement Rewards for College Scientists (ARCS) Foundation, Inc. Scholarship, Los Angeles Chapter, 2010.
- UCSD Chancellor’s Fellowship, 2005–2009.
- National Defense Science and Engineering Graduate Fellowship, 2005–2008.
- Phi Kappa Phi Graduate Fellowship, 2005–2006.
- Woods Hole Oceanographic Institution Summer Student Fellowship, Summer 2004.

TEACHING AND ADVISING

Graduate Student Advising:

- Julie K. Jakoboski, PhD, MIT-WHOI Joint Program, with W.B. Owens and K.B. Karnauskas, 2015–2019. Now at MetOcean Solutions, New Zealand.
- Joleen Heiderich, PhD, MIT-WHOI Joint Program, 2016–2021.
- LT Kyle R. Kausch, MS, Navy Masters Student, MIT-WHOI Joint Program, 2019–2021. Now LCDR

assigned to USS *Abraham Lincoln*.

Postdoctoral Advising:

- Alice S. Ren, PhD, WHOI Postdoctoral Scholar, co-advised with D. Nicholson, 2022–present.

WHOI Summer Student Fellow Advising:

- Joleen Heiderich, Jacobs University Bremen, 2014.
- Devon Gaynes, Stony Brook University, with M. Andres, 2018.

PhD Thesis Committee Member:

- Lu Han, University of North Carolina, 2018–2022.

Teaching:

- *Instructor*, MIT-WHOI Coastal Physical Oceanography course (12.862): Co-taught a graduate course on dynamical processes from estuaries to the outer continental shelf. Fall 2014, Fall 2016, Fall 2018, Fall 2020, Fall 2022.
- *Guest Lecturer*, University of Southern Mississippi, Uncrewed Maritime Systems Tier II Certificate Program: Guest lecture on glider operations in western boundary currents. Fall 2022.
- *Guest Lecturer*, MIT-WHOI Introduction to Observational Physical Oceanography (12.808): Guest lecture on autonomous underwater glider observations. Fall 2015.
- *Instructor*, Woods Hole Partnership Education Program: Co-developed and co-taught a physical oceanography module for undergraduate students from underrepresented groups. Summers 2012–2013.
- *Visiting Scientist*, Sea Education Association, MIT-WHOI Joint Program Orientation cruise: Introduced new graduate students to sea-going oceanography and the Middle Atlantic Bight shelfbreak frontal region in collaboration with Sea Education Association. Summer 2012.
- *Teaching Assistant*, UCSD, SIO 30: The Oceans. Lower division undergraduate course covering physical, biological, chemical, and geological oceanography. Attended lectures, led two discussion sessions per week, and held office hours. Fall 2009.
- *Supplemental Instruction Leader and Tutor*, NCSU Undergraduate Tutorial Center. Led discussion sessions for undergraduate physics courses and tutored undergraduate mathematics and physics. Regular training in effective teaching methods. Spring 2002–Spring 2005.

MIT-WHOI Joint Committee for Physical Oceanography:

- *General Exam Committee*. 2017, 2019, 2023 (Co-Chair).

SUPERVISION AT WHOI

- Patrick Deane, Engineer II, 2015–present.

FIELD EXPERIENCE

Principal investigator or collaborator for WHOI-based autonomous underwater glider operations totaling over 4,000 glider-days since 2011. See <http://gliders.whoi.edu>. Collaborator in 6 major multi-investigator field programs (TEMPESTS, NASCar, PEACH, MISO-BOB, NISKINe, TFO/NESMA).

- Spray glider operations for NESMA and SWOT CalVal, offshore Cape Hatteras, 1 day, F/V *Kahuna*, March 2023.
- Spray glider operations, Florida Strait off Miami, 14 days, April, July, and October 2015, August 2016, January 2018, March and July 2019, April, August, October, and December 2021, March and October 2022, February 2023.
- Spray glider and Seaglider operations for NISKINe, Iceland, 1 day, ICE-SAR vessel *Pór*, August 2019.
- Spray glider operations for PEACH, offshore Cape Hatteras, 3 days, R/V *Miss Caroline*, F/V *Kahuna*, and F/V *Phideaux*, August and November 2017, February 2019.
- Spray glider operations for NASCar, Seychelles, 2 days, Seychelles Coast Guard Patrol Ships *Etoile* and *Constant*, March 2017, March 2018.
- Mooring, PIES, float, XBT, CTD, and Spray glider deployments for PEACH, 15 days, R/V *Neil Armstrong*, April 2017.
- Spray glider operations, Middle Atlantic Bight shelf, 2 days, R/V *Tioga*, January and April 2016.
- Spray glider and XSpAr operations, Middle Atlantic Bight shelf, 2 days, M/V *Warren Jr.*, June 2015.
- Slocum glider operations, Middle Atlantic Bight shelf, 2 days, R/V *Tioga* and R/V *Discovery*, March and July 2014.
- Spray glider, mooring, and CTD operations for Line W, northwestern Atlantic, 15 days, R/V *Knorr*, August 2012.
- MIT-WHOI Joint Program Orientation cruise, Middle Atlantic Bight shelfbreak, 9 days, SSV *Corwith Cramer*, June-July 2012.
- CTD surveys of shelfbreak front, Middle Atlantic Bight south of Cape Cod, 2 days, R/V *Tioga*, July 2011.
- Spray glider recovery and deployment, Philippine Sea off Palau, 5 days total, R/V *Kemedukl*, September 2009, February and November 2010.
- Spray glider recovery and deployment, Santa Barbara Channel, California, 1 day, August 2009.
- SeaSoar surveys along 158°W, north of Oahu, Hawaii, 13 days, R/V *Kilo Moana*, December 2007.
- Glider operations (Spray and Seaglider) and Underway CTD surveys in the Kuroshio, off Taiwan and the Philippines, 22 days total, R/V *Melville*, July and October 2007.
- SeaSoar surveys as part of the AESOP program, off Monterey, California, 31 days, R/V *Wecoma*, August 2006.
- Equipment testing and CTD casts, off San Diego, California, 1 day, R/V *Robert Gordon Sproul*, August 2005.
- Duke/UNC Oceanographic Consortium ROV Training Cruise, Onslow Bay, North Carolina, 4 days, R/V *Cape Hatteras*, October 2003.

WORKSHOP PARTICIPATION

- Boundary Currents Workshop, Oceans Coordination Group (OCG-14) meeting. Cape Town, South Africa, 5 June 2-23. Virtual participant.
- International Workshop on Western Boundary Current-Subtropical Continental Shelf Interactions. Savannah, GA, 22–24 May 2023.
- Underwater Glider User Group Meeting. Seattle, WA, 20–22 September 2022.
- CLIVAR Whither the Gulf Stream Workshop. Woods Hole, MA, 15–17 June 2022.
- GOOS Ocean Observing Co-Design Workshop, Towards Integrated Fit-For-Use Ocean Observing Systems within Boundary Current Systems. 8 June 2022. Virtual.
- OCG-13 Boundary Current Workshop. 24 May 2022. Virtual
- GOOS OOPC Dialogues on Boundary Systems. Moderator for webinar on Gulf Stream observing and

modeling, 6 October 2021.

- OceanGliders Best Practices Workshop. Co-chair of depth-average current virtual session, 12–25 May 2021.
- AtlantOS Ocean Hour, ‘Gliders’. Invited panelist for webinar, 9 March 2021.
- Integrating Ocean Observations to Improve NOAA’s Hurricane Intensity Forecasts Workshop. NOAA Virtual Meeting, 26–28 January 2021.
- Enhancing Coastal and Ocean Observing and Innovation: OAR and IOOS Workshops, Atlantic Regional Workshop. NOAA Virtual Meeting, 30 June–1 July 2020.
- International Workshop on Ocean Monsoon Mixing. Ahmedabad, India, 27–28 January 2020.
- India-ONR Arabian Sea Science Workshop. Dona Paula, Goa, India, 2–3 August 2018.
- Twentieth Session of the Ocean Observations Panel for Climate (OOPC-20). Woods Hole, MA, 14–17 March 2017.
- Autonomous and Lagrangian Platforms and Sensors (ALPS II) workshop. La Jolla, CA, 21–24 February 2017.
- Implementation of Multi-Disciplinary Sustained Ocean Observation (IMSOO) workshop, organized by the Global Ocean Observing System (GOOS) and IEEE OceanObs Research Coordination Network. Miami, FL, 8–10 February 2017.
- US Underwater Glider workshop, organized by the Interagency Ocean Observation Committee (IOOC). ‘Sustained Monitoring’ discussion leader. Pearlington, MS, 18–19 January 2017.
- 7th EGO Conference on Autonomous Ocean Gliders and their Applications. Presenter and Organizer of ‘Velocity Measurements from Gliders (with ADCPs)’ workshop. Southampton, UK, 26–30 September 2016.
- CINAR Shelfbreak Ecosystem Workshop. Providence, RI, 7–8 January 2013.
- Oceanography of the Continental Shelf and Slope: Pioneer Array Science Workshop. New Bedford, MA, 4–5 June 2012.
- Velocity Measurements from Gliders Workshop, Ocean Sciences Meeting. Salt Lake City, UT, 21 February 2012.

SERVICE

Ongoing:

- Reviewer for *Geophys. Res. Lett.*, *J. Geophys. Res.: Oceans*, *J. Phys. Oceanogr.*, *J. Atmos. Oceanic Technol.*, *Prog. Oceanogr.*, *Deep-Sea Res. I*, *J. Mar. Res.*, *Oceanography*, *Nature Comm.*, *Biogeosciences*, *Ocean Eng.*, National Science Foundation, CONICYT (Chile), Alaska Coastal Marine Institute, Deep South National Science Challenge (New Zealand)
- Member, Joint Committee for Physical Oceanography, MIT-WHOI Joint Program, 2023–2025.
- Co-Chair, OceanGliders Boundary Ocean Observing Network (BOON) Task Team, 2022–present. Steering team member since 2019, Member since 2016.
- Steering Team, OceanGliders, 2022–present.
- Science Lead, MIT BeaverCube-2 CubeSat mission, 2020–present.
- Co-Chair, GOOS OOPC Boundary Systems Task Team. 2019–present, Member since 2017.

Past:

- Steering Committee, Underwater Glider User Group (UG2), 2020–2023.
- Member, WHOI Marine Operations Committee, 2015–2022.
- Member, Underwater Glider User Group (UG2) Workshop Committee, 2022.
- Member, WHOI Task Group on ‘Life During and After COVID-19’, 2020–2021.

- Member, WHOI Childcare Task Force, 2020.
- Steering Committee, ONR iSOAP DRI, 2018–2020.
- Session Chair, 2020 Ocean Sciences Meeting, Boundary Currents and Shelf-Deep Ocean Exchange.
- Member, WHOI Physical Oceanography Scientific Staff Recruitment Committee, 2014, 2015–2019.
- Organizing Committee, Middle Atlantic Bight Physical Oceanography and Meteorology (MABPOM) meeting, 2017–2018.
- Guest Editor, *Oceanography*, Vol. 30, No. 2, Autonomous and Lagrangian Platforms and Sensors (ALPS), 2017.
- Panelist, XBT Program Review, NOAA Ocean Observing and Monitoring Division, Miami, FL, 6–7 February 2017.
- Session Chair, 2016 Ocean Sciences Meeting, Coastal Seas and Deep Ocean Connections: Observing and Modeling for Process and Climate Studies.
- Member, WHOI Coastal Ocean Institute Advisory Committee, 2015–2016.
- Coordinator, WHOI Physical Oceanography Seminar series, 2013–2015.
- Member (Postdoctoral Representative), WHOI Educational Council, 2011–2012.
- WHOI Postdoctoral Association, Vice President and Physical Oceanography Representative, 2011–2012.
- Member (Student Representative), SIO Oceans and Atmospheres Faculty Search Committee, Spring 2010.
- Member (Student Representative), SIO Marine Operations Committee, 2009–2010.
- Member (Student Representative), SIO Physical Oceanography Curriculum Review, 2009.
- Organizing Committee, International Meeting of Students in Physical Oceanography, 2008.

MEMBERSHIPS AND CERTIFICATIONS

- European Geophysical Union, Member
- American Geophysical Union, Member
- Phi Beta Kappa Honor Society, Member
- Phi Kappa Phi Honor Society, Member
- Scuba Diving: AAUS Scientific Diver (100ft, expired), IANTD Nitrox, DAN O₂ Administration, Medic First Aid/CPR/AED/O₂, PADI Rescue Diver

LECTURES

- November 2022 (Invited), Department of Estuarine and Ocean Sciences Seminar, University of Massachusetts Dartmouth, New Bedford, MA. *Shelf-deep ocean exchange near Cape Hatteras from two years of underwater glider observations.*
- April 2021, MEAS Seminar, North Carolina State University, Raleigh, NC. *Gliders in the Gulf Stream: New insights from sustained observing.* Virtual.
- January 2021, CASPO Seminar, Scripps Institution of Oceanography, La Jolla, CA. *Gliders in the Gulf Stream: New insights from sustained observing.* Virtual.
- November 2020, Physical Oceanography Division Seminar, NOAA Atlantic Oceanographic and Meteorological Laboratory, Miami, FL. *Gliders in the Gulf Stream: New insights from sustained observing.* Virtual.
- September 2020, Physical Oceanography Seminar, Woods Hole Oceanographic Institution, Woods Hole, MA. *Gliders in the Gulf Stream: New insights from sustained observing.* Virtual.
- September 2020 (Invited), Topics in Atmospheric and Oceanic Sciences Seminar, Stony Brook University, Stony Brook, NY. *Gliders in the Gulf Stream: New insights from sustained observing.* Virtual.
- October 2019, Physical Oceanography Seminar, Woods Hole Oceanographic Institution, Woods Hole,

- MA. *Evolution of western Indian Ocean equatorial circulation during onset of the summer monsoon.*
- October 2017, Lecture of Opportunity, US Naval War College, Newport, RI. *Woods Hole Scientists on Ocean Undersea Vehicles for Scientific and Military Applications* (with L.C. St. Laurent, M. Purcell, G.G. Gawarkiewicz).
 - May 2017, Physical Oceanography Seminar, Woods Hole Oceanographic Institution, Woods Hole, MA. *New views of the Gulf Stream* (with J. Heiderich).
 - April 2017 (Invited), Department of Estuarine and Ocean Sciences Seminar, University of Massachusetts Dartmouth, New Bedford, MA. *New views of the Gulf Stream* (with J. Heiderich, W.B. Owens, and D.L. Rudnick).
 - February 2017 (Invited plenary), Autonomous and Lagrangian Platforms and Sensors (ALPS II) workshop, La Jolla, CA. *Autonomous and Lagrangian studies of coastal and boundary current systems.*
 - September 2016 (Invited), Physical Oceanography and Climate Seminar, National Oceanography Centre, Southampton, UK. *Potential vorticity structure in the North Atlantic western boundary current from underwater glider observations* (with W.B. Owens and D.L. Rudnick).
 - November 2015, Physical Oceanography Seminar, Woods Hole Oceanographic Institution, Woods Hole, MA. *Potential vorticity structure in the North Atlantic western boundary current from underwater glider observations* (with W.B. Owens and D.L. Rudnick).
 - May 2015 (Invited), School of Oceanography, University of Washington, Seattle, WA. *Potential vorticity structure in the North Atlantic western boundary current from underwater glider observations* (with W.B. Owens and D.L. Rudnick).
 - March 2015 (Invited), Graduate School of Oceanography, University of Rhode Island, Narragansett, RI. *Potential vorticity structure in the North Atlantic western boundary current from underwater glider observations* (with W.B. Owens and D.L. Rudnick).
 - June 2013 (Invited), Dept. of Ocean, Earth, and Atmospheric Sciences, Old Dominion University, Norfolk, VA. *Cross-shelfbreak exchange in the Middle Atlantic Bight.*
 - May 2013 (Invited), Physical Oceanography Seminar, Woods Hole Oceanographic Institution, Woods Hole, MA. *Cross-shelfbreak exchange in the Middle Atlantic Bight.*
 - May 2013 (Invited), CASPO Seminar, Scripps Institution of Oceanography, La Jolla, CA. *Western boundary current influences on the coastal ocean.*
 - March 2013 (Invited), Sack Lunch Seminar, Dept. of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology, Cambridge, MA. *Cross-shelfbreak exchange in the Middle Atlantic Bight.*
 - February 2013 (Invited), Physics Colloquium, California Polytechnic State University, San Luis Obispo, CA. *Cross-shelfbreak exchange in the Middle Atlantic Bight.*
 - January 2013 (Invited), CASPO Seminar, Scripps Institution of Oceanography, La Jolla, CA. *Cross-shelfbreak exchange in the Middle Atlantic Bight.*
 - October 2011, Physical Oceanography seminar, Graduate School of Oceanography, University of Rhode Island, Narragansett, RI. *Thermohaline structure in coastal systems.*
 - September 2011, Physical Oceanography seminar, Woods Hole Oceanographic Institution, Woods Hole, MA. *Thermohaline structure in coastal systems.*
 - November 2010, Coastal Ocean Fluid Dynamics Laboratory seminar, Woods Hole Oceanographic Institution, Woods Hole, MA. *Mesoscale and submesoscale processes observed by underwater gliders in the California Current System.*

SELECTED CONFERENCE PRESENTATIONS (PRESENTING AUTHOR ONLY WHILE AT WHOI)

- **Todd, R.E.** Shelf-deep ocean exchange near Cape Hatteras from two years of underwater glider observations. International Workshop on Western Boundary Current-Subtropical Continental Shelf In-

teractions. Savannah, GA. 22 May 2023.

- **Todd, R.E.**, A.S. Ren[†]. Spray glider observations near Atlantis II seamount. ONR Task Force Ocean virtual program review. 17 February 2023.
- **Todd, R.E.** Eddy fluxes and shelf-deep ocean exchange near Cape Hatteras. Middle Atlantic Bight Physical Oceanography and Meteorology meeting. Newark, DE. 14 October 2022.
- **Todd, R.E.** Eddy fluxes and shelf-deep ocean exchange near Cape Hatteras. Underwater Glider User Group (UG2) meeting. Seattle, WA. 20 September 2022.
- **Todd, R.E.** Gliders in the Gulf Stream. CLIVAR Whither the Gulf Stream Workshop. Woods Hole, MA. 15–17 June 2022. Poster.
- **Todd, R.E.** Gliders in the Gulf Stream. US AMOC Science Team Meeting. Woods Hole, MA. 25 April 2022. Poster.
- **Todd, R.E.** Eddy kinetic energy and fluxes from sustained glider observations along the US East Coast. Climate Process Team: Ocean Transport and Eddy Energy Annual Meeting. 12 April 2022. Virtual presentation.
- **Todd, R.E.** Autonomous observations to constrain variability near Atlantis II seamount. ONR Task Force Ocean virtual program review. 9 March 2022.
- **Todd, R.E.** Mean and eddy kinetic energy of the Gulf Stream from multiyear underwater glider surveys. EGU General Assembly. 4 May 2020. Virtual presentation.
- **Todd, R.E.** Shelf-deep ocean exchange at Cape Hatteras from two years of underwater glider observations. Ocean Sciences meeting. San Diego, CA. 19–20 February 2020. Poster and oral.
- **Todd, R.E.** Equatorial circulation in the western Indian Ocean during onset of the 2018 summer monsoon and links to the Bay of Bengal. International Workshop on Ocean Monsoon Mixing. Ahmedabad, India. 27–28 January 2020.
- **Todd, R.E.** Shelf-deep ocean exchange at Cape Hatteras from two years of underwater glider observations. Middle Atlantic Bight Physical Oceanography and Meteorology meeting. Raleigh, NC. 8 October 2019.
- **Todd, R.E.**, J. Heiderich*. Gliders in the Gulf Stream: A model for sustained observing of western boundary currents. OceanObs'19. Honolulu, HI. 17–19 September 2019. Poster.
- **Todd, R.E.** Observing oceanic boundaries and shelf-deep ocean exchange. OceanObs'19. Honolulu, HI. 17 September 2019.
- **Todd, R.E.** Observations of shelf-deep ocean exchange at Cape Hatteras. 27th IUGG General Assembly. Montreal, QC, Canada. 13 July 2019.
- **Todd, R.E.** Observations of shelf-deep ocean exchange at Cape Hatteras. 8th EGO Meeting and International Glider Workshop. New Brunswick, NJ. 21 May 2019.
- **Todd, R.E.** Observing systems for oceanic boundaries. OceanPredict'19. Halifax, NS, Canada. 7 May 2019.
- **Todd, R.E.**, L. Rainville, C.M. Lee. Evolution of equatorial flows in the western Indian Ocean during onset of the summer monsoon. AGU Fall Meeting. Washington, DC. 11 December 2018. Poster.
- **Todd, R.E.**, D. Gaynes*, M. Andres. Early results from sustained glider observations near Cape Hatteras. Middle Atlantic Bight Physical Oceanography and Meteorology meeting. Woods Hole, MA. 11–12 October 2018. Poster.
- **Todd, R.E.**, L. Rainville, C.M. Lee. Monsoon impacts on the western equatorial Indian Ocean: Science from NASCar. WHOI Summer Lecture Series. Woods Hole, MA, 8 August 2018.
- **Todd, R.E.**, L. Rainville, C.M. Lee. Evolution of equatorial flows during onset of the summer monsoon. India-ONR Arabian Sea Science Workshop. Dona Paula, Goa, India. 2 August 2018.
- **Todd, R.E.**, T.G. Asher, J. Heiderich*, J.M. Bane, R.A. Luettich. Transient response of the Gulf Stream to multiple hurricanes in 2017. Ocean Sciences meeting. Portland, OR. 15 February 2018. Poster and lightning talk.

- **Todd, R.E.**, J. Heiderich*. The potential for sustained Gulf Stream monitoring with autonomous underwater gliders. Ocean Sciences meeting. Portland, OR. 14 February 2018. Invited poster.
- **Todd, R.E.**, C.M. Lee, L. Rainville. Upper ocean response to monsoon forcing in the equatorial Indian ocean from glider observations. Ocean Sciences meeting. Portland, OR. 13 February 2018. Poster.
- **Todd, R.E.** Analysis of Pioneer Array glider observations. Ocean Observatories Initiative Facilities Board Town Hall, Ocean Sciences meeting. Portland, OR. 13 February 2018. Lightning talk.
- **Todd, R.E.** Shelf-deep ocean exchange near Cape Hatteras: Glider observations along the shelf edge. Middle Atlantic Bight Physical Oceanography and Meteorology meeting. Wanchese, NC. 28 September 2017.
- **Todd, R.E.** High-frequency internal waves and thick bottom mixed layers observed by gliders in the Gulf Stream. ONR Physical Oceanography Program Review. Herndon, VA. 30 March 2017.
- **Todd, R.E.** Hydrographic and velocity structure in the Equatorial Indian Ocean from underwater glider observations. ONR Physical Oceanography Program Review. Herndon, VA. 29 March 2017.
- **Todd, R.E.** Gliders in the Gulf Stream: Lee waves and bottom mixed layers. Autonomous and Lagrangian Platforms and Sensors (ALPS II) workshop. La Jolla, CA. 21–24 February 2017. Poster.
- **Todd, R.E.** Gliders in the Gulf Stream: Lee waves and bottom mixed layers. U.S. Underwater Glider Workshop. Pearlington, MS. 18-19 January 2017. Poster.
- **Todd, R.E.** Arthur and Hermine: Glider-based observations of two tropical systems in the MAB. Mid-Atlantic Bight Physical Oceanography and Meteorology Meeting. Fall River, MA. 27 October 2016.
- **Todd, R.E.** New views of the Gulf Stream. 7th EGO Conference on Autonomous Ocean Gliders and their Applications. Southampton, UK. 27 September 2016.
- **Todd, R.E.** New views of the Gulf Stream. Ocean Sciences meeting. New Orleans, LA. 26 February 2016.
- **Todd, R.E.**, J. Heiderich*, G.G. Gawarkiewicz. Storms and stratification on the Middle Atlantic Bight shelf. Mid-Atlantic Bight Physical Oceanography and Meteorology Meeting. Gloucester Point, VA. 30 October 2014.
- **Todd, R.E.**, W.B. Owens, D.L. Rudnick. Potential vorticity in the Loop Current and Gulf Stream. Ocean Sciences Meeting. Honolulu, HI. 27 February 2014. Poster.
- **Todd, R.E.**, W.B. Owens, D.L. Rudnick. Potential vorticity in the Gulf Stream and Loop Current. Mid-Atlantic Bight Physical Oceanography and Meteorology Meeting. Narragansett, RI. 17 October 2013.
- **Todd, R.E.**, Doppler current measurements from Spray gliders. 2013 Nortek Technical Symposium. San Diego, CA. 20 September 2013.
- **Todd, R.E.**, G.G. Gawarkiewicz, W.B. Owens. Horizontal scales of variability over the Middle Atlantic Bight shelfbreak and continental rise from finescale observations. Gordon Research Conference and Seminar, Coastal Ocean Circulation. Biddeford, ME. 8–14 June 2013. Poster.
- **Todd, R.E.**, G.G. Gawarkiewicz, W.B. Owens. Horizontal scales of variability over the Middle Atlantic Bight shelfbreak and continental rise from finescale observations. WHOI Postdoctoral Symposium. Woods Hole, MA. 17 October 2012. Poster.
- **Todd, R.E.**, G.G. Gawarkiewicz, W.B. Owens. Horizontal scales of variability over the Middle Atlantic Bight shelfbreak and continental rise from finescale observations. CINAR 5 Year Review. Woods Hole, MA. 6 September 2012. Poster.
- **Todd, R.E.**, Processing Methods for Doppler Current Measurements from Gliders. Velocity Measurements from Gliders workshop, Ocean Sciences Meeting. Salt Lake City, UT. 21 February 2012.
- **Todd, R.E.**, G.G. Gawarkiewicz, W.B. Owens. Finescale Observations of the Middle Atlantic Bight Shelfbreak and Slope. Ocean Sciences Meeting. Salt Lake City, UT. 21 February 2012.
- **Todd, R.E.**, G.G. Gawarkiewicz, W.B. Owens. Glider observations of the MAB shelfbreak and slope.

Oral Presentation. WHOI Postdoctoral Symposium. Woods Hole, MA. 20 October 2011.

- **Todd, R.E.**, G.G. Gawarkiewicz, W.B. Owens. Glider observations of the MAB shelfbreak and slope. Mid-Atlantic Bight Physical Oceanography and Meteorology Meeting. Cambridge, MD. 11 October 2011.

MEDIA AND OUTREACH

I regularly conduct lab tours and give briefings on my work for audiences including high school students, federal agency officials, US Navy flag officers, and international visitors. See <http://rtodd.who.edu> for links to the following articles and videos featuring my work:

- WHOI research news about hurricanes (2021)
- NOAA Global Ocean Monitoring and Observing article about hurricanes (2020)
- WHOI research highlight about hurricanes (2019)
- Physics Today article on submesoscale coherent vortices in the Gulf Stream (2019)
- AGU Editor's Highlight about submesoscale coherent vortices in the Gulf Stream (2019)
- WHOI Oceanus article about hurricane effects on the Gulf Stream, J. Heiderich (2018)
- WHOI Oceanus article about ROGER, J. Jakoboski (2018)
- WHOI Oceanus article about Hurricane Florence (2018)
- Weather Underground blog post about East Coast sea level and storms (2018)
- EOS article about hurricane effects on the Gulf Stream (2018), EOS, Vol. 99, Num. 4, p. 6, April 2018
- Video overview of PEACH (2018)
- Coastal Review Online article on PEACH study at Cape Hatteras (2017)
- PEACH deployment cruise blog (2017)
- 'The Gulf Stream: Big River in the Sea (Part 1)', documentary film that aired in Europe (2017)
- CBS Boston piece on Hurricane Hermine (2016)
- Falmouth Enterprise article on Hurricane Hermine (2016)
- Weather Channel piece on Hurricane Hermine (2016)
- CBS Evening News piece about Hurricane Hermine (2016)
- AP article on Hurricane Hermine (2016)
- WHOI press release on Hurricane Hermine (2016)