

JOSH T. KOHUT

Associate Professor

Center of Ocean Observing Leadership, Department of Marine and Coastal Sciences
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EDUCATION

2002 Ph.D. Physical Oceanography, Rutgers University, New Brunswick, New Jersey, USA
1997 B.S. with honors in Physics, College of Charleston, Charleston, South Carolina, USA (Cum Laude)
1997 Minor in Mathematics, College of Charleston, Charleston, South Carolina, USA

OTHER PROFESSIONAL APPOINTMENTS

1997-2002: Graduate Assistant, Rutgers University, New Brunswick, New Jersey
2002-2007: Director: COOL Operations Center, Rutgers University, New Brunswick, New Jersey
2008-2014: Assistant Professor, Rutgers, The State University of New Jersey, New Brunswick, NJ
2014-Pres: Associate Professor, Rutgers, The State University of New Jersey, New Brunswick, NJ

AWARDS, HONORS AND CERTIFICATIONS

2006: Cook College Team Recognition Award - Coastal Ocean Observation Lab, Glenn, Schofield, Chant, Kohut & McDonnell.
2006: Rutgers' President's Recognition Program Bridge Award (Team Member)
2013: Rutgers University School of Environmental and Biological Sciences Outreach Excellence Award
2013: Rutgers University School of Environmental and Biological Sciences Merl V. Adams Award
2014: The Board of Trustees Fellowship for Scholarly Excellence (Rutgers University)
2014: The Presidential Fellowship for Teaching Excellence (Rutgers University)
2015: Chancellor Scholar (Rutgers University)

TEACHING EXPERIENCE

Major Advisor for Ph.D. and Masters

Laura Palamara, Rutgers, The State University of New Jersey (Masters, awarded 2010)
Ana Filipa Carvalho, Rutgers, The State University of New Jersey (Ph.D. ongoing)

Thesis Committee Member

Brian Dzwonkowski, College of Marine and Earth Studies, University of Delaware (Ph.D. awarded in 2008).
Scott Haag, Ecology, Evolution and Natural Resources, Rutgers University (Masters, awarded 2010).
Steven Gray, Ecology, Evolution, and Natural Resources, Rutgers University (Ph.D. awarded 2010)
Eric Geiger, College of Marine and Earth Studies, University of Delaware (Masters, awarded 2011)
Dove Guo, Marine and Coastal Sciences, Rutgers University (Masters, awarded 2012).
Maria Aristizabal, Marine and Coastal Sciences, Rutgers University (Ph.D., awarded 2013)
Travis Miles, Marine and Coastal Sciences, Rutgers University (Ph.D., awarded 2014)
Michael Muglia, Marine Sciences, UNC-Chapel Hill (Ph.D. Ongoing)
Nicole Couto, Marine and Coastal Sciences, Rutgers University (Ph.D., ongoing)
Greg Seroka, Marine and Coastal Sciences, Rutgers University (Ph.D., ongoing)

Undergraduate Advisor

2008-2009 Evan Randall-Goodwin, Independent Study, *Inter-comparison of two processing algorithms to generate total vector fields from HF radar derived radial data.*
2009 Taha Saeed, Work Study, *Near-shore wave and current observations from shore based HF radar*
2009 David Golon, Independent Research, *Summer Flounder distributions in the Mid-Atlantic Bight*
2009 Ana Filipa Carvalho, International Research Internship, *Nearshore response of the coastal ocean to the passing of successive Nor'easters along the New Jersey Coast*
2009 Alvaro Lopez, International Research Internship, *Glider flight characteristics for the trans-Atlantic mission of RU-27*

2009 Adrian Martin, International Research Internship, *The trans-Atlantic mission of RU27*.
 2010 David Golon, Independent Study, *Comparison of decadal climate signals like NAO and AMO with zooplankton abundance in the Mid-Atlantic Bight*.
 2010 Danielle Holden, *Comparison of ship and AUV hydrography in a Fjord in Svalbard, Norway*.
 2011 Danielle Holden, *Ship-board data analysis collected during a polar cruise to the Ross Sea, Antarctica*.
 2011 Kathryn Gardella, *Development of a fisherman's survey to gather data related to an ongoing Squid/Butterfish bycatch reduction study*.
 2012 Chris Filosa, G.H. Cook Honors Thesis, *Inter-Annual Variability of the Cold Pool in the Mid-Atlantic Bight*.
 2012 Joe Riscica, *Integrating near-inertial currents into a short term surface current prediction system*.
 2014 Leslie O'Hara, *Sediment resuspension events in the Mid-Atlantic Bight using glider AUVs*.
 2015 Brendan Campbell, *Global model comparisons with glider and mooring based in situ data*.
 2015 Anjali Suman, *Foraging habitat of Adelie Penguins in Palmer Deep Antarctica*.
 2015 Samuel Coakley, *Climatological analysis of Mid Atlantic Bight Glider data*.
 2015 Brendan Campbell, *Climatological analysis of Palmer Deep Antarctica Glider data*.

Undergraduate Summer Internships

2008 Evan Randall-Goodwin, Summer Internship at Puertos Del Estados and Qualitas Remos (Madrid Spain), *HF radar current observations along the Spanish coast and a wave analysis to determine a climatology for rogue waves along the NW coast of Spain*.
 2012 Ameia Snow, *Surface temperature as a trigger of butterfly migration: A study of fall phenology*.
 2012 Colin Dobson, *Combining ocean observing systems with statistical analysis to account for a dynamic habitat*.
 2012 Kristen Holenstein, *Comparison of CODAR and ADCP Surface Current Velocity Data*.
 2012 Robert Forney, *Bistatic systems: Preparing for multistatic*.
 2013 Jeff Mart: *Long Duration Glider Comparison with Ocean Models*.
 2013 Collin Dobson: *Long Duration Glider Comparison with Ocean Models*.
 2014 Katie Todoroff: *Long Duration Glider Comparison with Ocean Models*.
 2014 Rachael Sacatelli: *Long Duration Glider Comparison with Ocean Models*.
 2014 Toby Schofield: *Long Duration Glider Comparison with Ocean Models*.
 2015 Andrenette Morrison: *Long Duration Glider Comparison with Ocean Models*.
 2015 Liam Ramsey: *Glider compass calibration*.

Year: Courses Co-taught with Drs. Glenn and Schofield

Spring 2008: Topics in Marine Science, "Atlantic Crossing" (11:628:308)
 Fall 2008: Topics in Marine and Coastal Science (11:628:211)
 Spring 2009: Problems in Marine and Coastal Science (11:628:498)
 Fall 2009: Topics in Marine Science (11:628:211)
 Spring 2010: Topics in Marine Science (11:628:201)
 Spring 2010: Problems in Marine Science (11:628:498)
 Fall 2010: Topics in Marine Science (11:628:203)
 Fall 2010: Oceanography House (11:100:01)
 Spring 2011: Topics in Marine Science (11:628:202)
 Spring 2011: Oceanography House (11:628:201)
 Fall 2011: Topics in Marine Science (11:628:205)
 Fall 2011: Oceanography House (11:100:01)
 Spring 2012: Topics in Marine Science (11:628:206)
 Fall 2012: Topics in Marine Science (11:628:207)
 Fall 2012: Oceanography House (11:100:01)
 Spring 2013: Topics in Marine Science (11:628:208)
 Fall 2013: Oceanography House
 Fall 2013: Topics Marine Science
 Spring 2014: Topics Marine Science
 Fall 2014: Oceanography House
 Fall 2014: Topics Marine Science
 Spring 2015: Topics Marine Science
 Fall 2015: Oceanography House
 Fall 2015: Topics Marine Science

Guest Lectures

Spring 2001: (16:712:552/11:670:451), Remote Sensing of the Ocean and Atmosphere
Spring 2006: (16:712:592/11:628:307), Communicating Ocean Science
Fall 2008: (16:712:552/11:670:451), Remote Sensing of the Ocean and Atmosphere
Fall 2008: (11:090:101), Byrne Seminar: "Climate Change and Water Resources"
Spring 2010: (11:090:101), Byrne Seminar: "Freshmen Seminar: Sea Monsters, Robots, and Radars"
Spring 2015: (16:712:698), Special Topics in Marine Sciences: "The Antarctic: Ocean, Ice, Climate, and Biota"

Development of New Teaching Programs

2008: New Undergraduate Topics Course on Crossing the Atlantic based on student interest, with Scott Glenn.
2008: Invited by Lawrence Hall of Science to join NOAA team, with Janice McDonnell and Scott Glenn, to develop the GEM Ocean Science Sequence modules for grades 3-5.
2010: Invited by Lawrence Hall of Science to join NOAA team, with Janice McDonnell and Scott Glenn, to develop the GEM Ocean Science Sequence modules for grades 6-8.
2010: New Freshman Learning Community, 'Oceanography House', with Drs. Scott Glenn and Oscar Schofield

SERVICE

Professional Service:

2004-Pres, Radiowave Operators Working Group (Chair)
2006-2008, Integrated Ocean Observing System (IOOS) DMAC Education Caucus (Chair)
2007-2010, Planning Committee for National HF Radar Network [Jack Harlan (NOAA), Art Alan (Coast Guard), Scott Glenn & Josh Kohut (Rutgers) and Josie Quintrell (NFRA)]
2008, European Glider Organization (EGO) Annual Workshop Steering Team
2010-Pres, Member of the New Jersey Department of Environmental Protection Science Advisory Board, Water Quality and Quantity Standing Committee.
2010, Member of the New Jersey Department of Environmental Protection Gulf Spill Team.
2010-Pres: Member of the ICES Working Group on the Northwest Atlantic Regional Sea
2010: Fisheries Panel Member. MACOORA Annual Meeting.
2011: Fisheries Panel Member. MARACOOS Annual Meeting.
2011: Water Quality Panel Member. MARACOOS Annual Meeting.
2011-2012: Technical Committee Member National Federation of Regional Associations Build Out Plan Document.
2012: Fisheries Panel Member. MARACOOS Annual Meeting.
2012: Water Quality Panel Member. MARACOOS Annual Meeting.
2012: Member NOAA Northeast Regional Team, Ecosystems Subteam
2012: Convener of the Ecosystems Break Out Group, Integrated Ocean Observing System Summit Ecosystems
2013: Co-Organizer, MTS/IEEE HF radar tutorial.
2013: Data Collection Panel Member, World Ocean Council Smart Oceans / Smart Industries Conference
2013-Pres: Faculty Advisor to the Rutgers University Student Section of the Marine Technology Society
2013: Co-Chair, Session: Antarctic marginal seas and shelf/slope processes: physical and biological variability, controls, and links to larger scales. AGU/ASLO Ocean Sciences Meeting, February 2014
2013-Pres: Kavli Fellow, US National Academy of Sciences
2014: Steering team member: Development of 4 Dimensional Ocean planning tools

Manuscript Reviewer for:

Journal of Geophysical Research
Journal of Geophysical Research Letters
Journal of Atmospheric and Oceanic Technology
IEEE Journal of Oceanic Engineering
Continental Shelf Research
Journal of Physical Oceanography
Oceanography
The MTS Journal
Progress in Oceanography

Grant Reviewer for:

National Science Foundation
National Oceanic and Atmospheric Administration

Review Panel Member for:

National Science Foundation, Office of Polar Programs

Service to the University:

2006-2008: Member of the Institute of Marine and Coastal Sciences Computing Committee
2010: SEBS Student Poster Judge
2010-2014: Teamwork Presentation as part of the RIOS Summer Internship Program Orientation
2011-pres: School of Environmental and Biological Sciences Water Working Group
2011-Pres: Faculty Advisor to the Rutgers Oceanography Club
2012: Session chair GH Cook Seminars
2013: Department of Marine and Coastal Sciences Admissions Committee

Society Memberships

American Geophysical Union
Marine Technology Society

GRANT AWARDS (* Grants in which I am the principle investigator)

2000

1. Glenn S., **J. Kohut**, D.E. Barrick and B.J. Lipa. 2000-2003. Development and demonstration of bistatic and long-range CODAR SeaSonde HF-Radar systems for coastal rapid environmental assessment applications, Office of Naval Research, \$1,248,000; NOAA/NURC, \$110,000.

2002

2. ***Kohut J.**, S.M. Glenn and O. Schofield. 2002. A Nested Bistatic HF Radar Array for the New York Bight, Office of Naval Research, \$155,600.

2005

3. Glenn, S. O. Schofield, R. Chant, **J. Kohut**, and J. McDonnell. 2005. A Teaching collaboratory for the Rutgers University Coastal Ocean Observation Lab. Rutgers, The State University of New Jersey, \$20,000.
4. ***Kohut, J.** 2005-2006. HF radar national data management development. National Oceanic and Atmospheric Administration. \$30,000.

2006

5. ***Kohut, J.** 2006. Rutgers University task plan for a regional HF radar product for the Mid-Atlantic Bight supporting the CIT coastal observation III project. National Oceanic and Atmospheric Administration, \$57,779.
6. Glenn, S., O. Schofield, and **J. Kohut**. 2006. Transitioning Slocum autonomous underwater gliders into naval oceanographic office operations. Office of Naval Research, \$97,447.
7. Glenn, S., **J. Kohut**, H. Roarty, D. Barrick, and B. Lipa. 2006-2007. Development and demonstration of a 13 MHz bistatic transmitter buoy coupled to standard and superdirective receivers. Department of Homeland Security, \$750,000.
8. Glenn, S., O. Schofield, **J. Kohut**, and C. Jones. 2006. Establishing an ONR autonomous underwater glider technology center for the Rutgers University – Webb Research Corp. Slocum glider partnership. Office of Naval Research, \$666,666.
9. ***Kohut, J.** 2006. 25 MHz HF radar test, install, and calibration in the Chesapeake Bay. Old Dominion University (Sub Contract from a NOAA Grant), \$17,064.
10. Glenn, S., **J. Kohut**, and O. Schofield. 2006-2007. Adaptive sampling in a research observatory during the shallow water 2006 experiment. Office of Naval Research, \$400,000.
11. Glenn, S. M., Schofield, O., Chant, R. J., **Kohut, J.**, McDonnell, J. 2006. Enhancing the Teaching Collaboratory for the Rutgers University (R.U.) Coastal Ocean Observation Lab (COOL). Cook College, Special Projects Funding \$20,000.
12. ***Kohut, J.**, and D. Barrick. 2006-2007. Development of an HF radar derived near-shore wave and current product: Application to rip current probability along the New Jersey coast. New Jersey SeaGrant (NOAA), \$160,000; Rutgers/CODAR match \$100,000.

13. ***Kohut, J.**, H. Roarty, and S. Glenn. 2006-2007. Wave and bistatic evaluation in the Sandy Hook testbed. National Oceanic and Atmospheric Administration, \$110,000.
14. Ullman, D., **J. Kohut**, D. Codiga, D. Hebert, C. Kincaid, and S. Moran. 2006-2009. Collaborative research: Observations of the structure and dynamics of mid-shelf fronts. National Science Foundation, \$702,542.

2007

15. ***Kohut, J.** 2007. Rutgers University task plan for a regional HF radar product for the Mid-Atlantic Bight supporting the CIT coastal observation IV project. National Oceanic and Atmospheric Administration, \$100,001.
16. ***Kohut, J.**, Glenn, S., Schofield, O. 2007. Atlantic Crossing: Long duration underwater glider missions. Directed Alumni Gift to the University (\$130,000)
17. Glenn, S., A. Allen, L. Atkinson, A. Blumberg, W. Boicourt, W. Brown, M. Bruno, B. Cole, J. Iainello, **J. Kohut**, B. Lipphardt, J. Moisan, J. O'Donnell, O. Schofield, H. Seim, J. Titlow, D. Ullman, A. Voros, J. Wilkin, Wittman, M. Yarosh. 2007-2011. Phased Deployment and Operation of the Mid-Atlantic Regional Coastal Ocean Observing System (MARCOOS). NOAA, \$8,700,000.

2008

18. Schofield, O., S. Glenn, **J. Kohut**, and M. Oliver. 2008. Characterizing continental shelves with satellites and gliders. Department of Defense-Office of Naval Research, DURIP (\$351,000).
19. Chant, R., S. Glenn, O. Schofield, **J. Kohut** and L. Kerkhof. 2008. Extending RUCOL into Estuarine Systems: Development of an Underway Multiplatform Profiling System. Infrastructure Proposal, School of Environmental Sciences, Rutgers University. \$28,550.
20. ***Kohut, J.** 2008. High resolution full water column velocity observations applied to transport process studies in the mid-Atlantic bight. Pre-Tenure faculty career development Award. School of Environmental and Biological Sciences. \$28,900.
21. Manderson, J., **J. Kohut**, M. Oliver. 2008-2010. Developing Ecological Indicators for Spatial Fisheries Management using Ocean Observatory Defined Habitat Characteristics in the Mid-Atlantic Bight, NOAA, \$128,014.
22. Glenn, S., D. Barrick, D. Metaxis, **J. Kohut**. 2008-2011. The National Center for Secure and Resilient Maritime Commerce and Coastal Environment. U.S. Department of Homeland Security. \$430,000
23. Oliver, M., **J. Kohut**, W. Fraser, A. Irwin, O. Schofield. Satellite Driven Studies of Climate Mediated Changes in Antarctic Food-Webs. NASA Biodiversity Program. 2008-2011. \$741,000.

2009

24. ***Kohut, J.** 2009-2011. Distributed Data Server Services. New Jersey Department of Environmental Protection. \$60,331.
25. ***Kohut, J.** 2009. Pilot: Glider Dissolved Oxygen Monitoring along the New Jersey Coast. New Jersey Department of Environmental Protection. \$30,933.
26. ***Kohut, J.** Integration of Coastal Ocean Dynamics Applications Radar (CODAR) and Short Term Prediction System (STPS) into the Search And Rescue Optimal Planning System (SAROPS). United States Coast Guard Research and Development Center, \$22,301 (Rutgers Portion).
27. Hiscock, M., C. Measures, P. Lam, A. Kustka, and **J. Kohut**. 2009-2013. Collaborative Research: Modified Circumpolar Deep Water intrusions as an iron source to the summer Ross Sea ecosystem. National Science Foundation. \$1,915,004.

2010

28. Chant, R. and **J. Kohut**. 2010-2011. Meteorological modulation of the exchange between Raritan bay and the coastal ocean. New Jersey Sea Grant. \$197,791.
29. Glenn, S., **J. Kohut**, R. Dunk. An Advanced Atmospheric/Ocean Assessment Program Designed to Reduce the Risks Associated with Offshore Wind Energy Development Defined by the New Jersey Energy Master Plan, New Jersey Board of Public Utilities. 2010-2013, \$1,870,253
30. ***Kohut, J.** 2010. Glider Based Dissolved Oxygen Monitoring along the New Jersey Coast. New Jersey Department of Environmental Protection. \$129,525
31. ***Kohut, J.** and A. Blumberg. 2010-2011. Development of an assimilative model prediction tool in response to the Gulf of Mexico oil spill. New Jersey Department of Environmental Protection. \$108,621.
32. DiDomenico, G., **J. Kohut**, and O. Jensen. 2010-2012. Experimental Approach to Butterfish Bycatch in the North Atlantic Loligo Fishery. NOAA Northeast Cooperative Research Program. \$438,140.

2011

33. Glenn, S., C. Thoroughgood, W. Boicourt, W. Brown, L. Atkinson, A. Allen, J. Billet, A. Blumberg, M. Bruno, H. Clark, A. Cope, B. Colle, M. Crowley, R. Dunk, C. Flagg, A. Gangopadhyay, T. Herrington, E. Howlett, J. Kerfoot, D. King, **J. Kohut**, J. Krauthamer, B. Lipphardt, A. MacDonald, J. Manderson, J. McDonnell, J. O'Donnell, M. Oliver, H. Roarty, O. Schofield, H. Seim, T. Siebers, C. Strong, B. Thompson, J. Titlow, J. Tongue, D. Ullman, E. Vowinkel, N. Vorona, J. Wilkin, R. Wilson, J. Yapalater Towards a Comprehensive Mid-Atlantic Regional Association Coastal Ocean Observing System (MARACOOS), 2011-2016, \$12,000,000.
34. ***Kohut, J.** 2011-2013. Spatial and Temporal Monitoring of Dissolved Oxygen (DO) in New Jersey Coastal Waters Using AUVs. Environmental Protection Agency. \$109,140.
35. ***Kohut, J.**, J. Manderson, O. Jensen, G. DiDomenico, and S. Gray. 2011-2012. Evaluation of broad and fine scale models of butterfish biomass applied to by-catch reduction in the longfin inshore squid fishery in the Mid-Atlantic Bight. NOAA Northeast Cooperative Research Program. \$163,891.

2012

36. Manderson, J., D. Richardson, N. Georgas, J. Hare, J. Quinlan, **J. Kohut**. 2012-2013. Accounting for habitat- dependent observation error in bottom trawl survey indices for pelagic stocks using butterfish (*Peprilus triacanthus*) as a model. NOAA Habitat Assessment Improvement Plan. \$95,000.
37. ***Kohut, J.** Development of a New Jersey Beaches Data System. New Jersey Department of Environmental Protection, 2012-2014. \$163,981

2013

38. Manderson, J. H. Townsend, **J. Kohut**, E. Curchitser. 2013-2014. Thermal habitat dynamics in the Northwest Atlantic and the role of the winter habitat squeeze in density dependent regulation of the forage species populations. NOAA Fisheries and The Environment Program. \$74,220.
39. ***Kohut, J.** 2013. Deployment of NJDEP's Slocum glider by Rutgers University. New Jersey Department of Environmental Protection. \$57,991.
40. ***Kohut, J.**, K. Bernard, W. Fraser, M. Oliver, P. Winsor. 2013-2016. Collaborative Research: Impacts of Local Oceanographic Processes on Adélie Penguin Foraging Ecology Over Palmer Deep. National Science Foundation. \$1,862,782.
41. ***Kohut, J.**, O. Jensen. 2013-2014. Analysis linking study fleet data to habitat and statistical models in the Mid-Atlantic Bight. NOAA Northeast Cooperative Research Program. \$103,293.
42. Glenn, S., Dunk, R., **Kohut, J.**, Bowers, L. 2013-2014. Atmospheric/Oceanic analyses and predictions to support the wind energy development application process defined in NJBPU's offshore wind (OSW) renewable energy rules (N.J.A.C. 14:8-6). New Jersey Board of Public Utilities. \$445,946.

2014

43. ***Kohut, J.** 2014. Deployment of NJDEP's Slocum glider by Rutgers University. New Jersey Department of Environmental Protection. \$59,936.

2015

44. ***Kohut, J.** 2015. Deployment of NJDEP's Slocum glider by Rutgers University. New Jersey Department of Environmental Protection. \$60,497.
45. Saba, V., Manderson, J., Hare, J., Richardson, D., Saba, G., **Kohut, J.**, Curchitser, E., Siebel, B. 2015. Indicators of habitat change affecting three key commercial species of the U.S. Northeast Shelf: A design to facilitate proactive management in the face of climate change. NOAA COCA Program. \$1,311,171.

PUBLICATIONS (**Papers by students and post-doctoral researchers)

Published Peer Reviewed Articles:

1999

1. **Kohut, J.T.**, S.M. Glenn and D.E. Barrick, 1999. SeaSonde is integral to coastal flow model development. Hydro International, 3, 32-35.

2002

2. Schofield, O., T. Bergmann, W.P. Bissett, F. Grassle, D. Haidvogel, **J. Kohut**, M. Moline and S. Glenn, 2002. The Long-term Ecosystem Observatory: An integrated coastal observatory, Journal of Oceanic Engineering, 27(2). 146-154.

2003

3. **Kohut, J.T.** and S. M. Glenn, 2003. Improving HF radar surface current measurements with measured antenna beam patterns. J. Atmos. Ocean. Tech., 1303-1316.

2004

4. Chant, R. J.; Glenn, S.; **Kohut, J.** 2004, Flow reversals during upwelling conditions on the New Jersey inner shelf *J. Geophys. Res.*, Vol. 109, No. C12, C12S03. 10.1029/2003JC001941
5. Glenn, S., R. Arnone, T. Bergmann, W. P. Bissett, M. Crowley, J. Cullen, J. Gryzmski, D. Haidvogel, **J. Kohut**, M. Moline, M. Oliver, C. Orrico, R. Sherrell, T. Song, A. Weidemann, R. Chant, and O. Schofield . 2004. Biogeochemical impact of summertime coastal upwelling on the New Jersey Shelf. *JGR* , Vol. 109, C12S02, doi:10.1029/2003JC002265.
6. Glenn, S., O. Schofield, T. Dickey, R. Chant, **J. Kohut**, J. Bosch, L. Bowers, L. Creed, C. Haldemann, E., Hunter, J. Kerfoot, C. Mudgal, M. Oliver, H. Roarty, E. Romana, M. Crowley, D. Barrick, and C. Jones, 2004. The Expanding Role of Ocean Color & Optics in the Changing Field of Operational Oceanography. *Oceanography*. 107:86-95.
7. **Kohut, J.T.**, Glenn, S. M., Chant, R. J. 2004. Seasonal current variability on the New Jersey inner shelf. *Journal of Geophysical Research*. 109, C07S07, doi: 10.1029/2003JC001963.
8. Oliver, M., **Kohut, J.**, Irwin, A., Schofield. O., Glenn, S.M., Moline, M. A. and Bissett, W.P. 2004. Bioinformatic Approaches for Objective detection of water masses. *Journal Geophysical Research – NEOS Special Section*. Vol 109 C07S04 doi: 10.1029/2003JC002072.

2006

9. **Kohut, J.T.**, S. M. Glenn, and J. D. Paduan. 2006, Inner shelf response to Tropical Storm Floyd, *J. Geophys. Res.*, 111, C09S91, doi:10.1029/2003JC002173
10. Ullman, D. S., J. O'Donnell, **J. Kohut**, T. Fake, and A. Allen 2006, Trajectory prediction using HF radar surface currents: Monte Carlo simulations of prediction uncertainties, *J. Geophys. Res.*, 111, C12005, doi:10.1029/2006JC003715
11. **Kohut, J.**, H. Roarty, and S. Glenn. 2006. Characterizing observed environmental variability with HF Doppler radar surface current mappers and acoustic Doppler current profilers. *IEEE Journal of Oceanic Engineering*. 31(4), doi: 10.1109/JOE.2006.886095.

2007

12. Glenn, S. M., Schofield, O., Chant, R., **Kohut, J.**, Roarty, H., Bosch, J., Bowers, L., Gong, D., Kerfoot, J. 2007. Wind-driven response of the Hudson river plume and its effect on dissolved oxygen concentrations. *Environmental Research, Engineering and Management* 1(39): 14-19.
13. Hunter, E., R. Chant, L. Bowers, S. Glenn, and **J. Kohut**. 2007. Spatial and temporal variability of diurnal wind forcing in the coastal ocean, *Geophysical Research Letters*, 34, L03607, doi:10.1029/2006GL028945.
14. Schofield, O., **Kohut, J.**, Aragon, D., Creed, L., Graver, J., Haldeman, C., Kerfoot, J., Roarty, H., Jones, C., Webb, D., Glenn, S. M. 2007. Slocum Gliders: Robust and ready. *Journal of Field Robotics*. 24(6): 1-14. DOI: 10.1009/rob.20200

2008

15. Chant, R. J., S. M. Glenn, E. Hunter, **J. Kohut**, R. F. Chen, R. W. Houghton, J. Bosch, and O. Schofield 2008. Bulge Formation of a Buoyant River Outflow. *Journal Geophysical Research* 113, C01017, doi:10.1029/2007JC004100.
16. Castelao, R., Glenn, S., Schofield, O., Chant, R., Wilkin, J., **Kohut, J.** 2008. Seasonal evolution of hydrographic fields in the central Middle Atlantic Bight from glider observations . *Geophysical Research Letters*. doi:10.1029/2007GL032335
17. Castelao, R., O. Schofield, S. Glenn, R. Chant, and **J. Kohut**. 2008. Cross-shelf transport of freshwater on the New Jersey shelf, *J. Geophys. Res.*, 113, C07017, doi:10.1029/2007JC004241.
18. Glenn, S. M., Jones, C., Twardowski, M., Bowers, L., Kerfoot, J., **Kohut, J.**, Webb, D., Schofield , O. 2008. Glider observations of sediment resuspension in a Middle Atlantic Bight Fall Transition Storm. *Limnology and Oceanography* 53(5, Part 2): 2180-2196.
19. Chubb, S.R., R.P Meid, C.Y. Shen, W. Chen, T.E. Evans, and **J. Kohut**. 2008. Ocean Surface Currents From AVHRR Imagery: Comparison With Land-Based HF Radar Measurements. *IEEE Trans. On GeoSci. And Remote Sens.* 46(11). p. 3647-3660.
20. Schofield, O., Chant, R., Cahill, B., Castelao, R., Gong, D., Kahl, A., **Kohut, J.**, Montes-Hugo, M., Ramadurai, R., Ramey, P., Xu, Y., Glenn, S. M. 2008. Seasonal forcing of primary productivity on broad continental shelves. *Oceanography* 21(4): 104-117.
21. Chant, R. C., Wilkin J., Zhang W., Choi B. J., Hunter E., Castelao R., Glenn S., Jurisa J., Schofield O., Houghton R., **Kohut J.**, Frazer T., Moline M. A. 2008. Dispersal of the Hudson River Plume on the New York Bight: Integrating observational and numerical studies during LaTTE. *Oceanography* 21(4): 90-103.

22. Lipa, B., Nyden, B., Barrick, D. and **J. Kohut**. 2008. HF Radar Sea-echo from Shallow Water . *Sensors* 2008, 8, 4611-4635 DOI: 10.3390/s8084611

2009

23. **Dzwonkowski, B., **J.T. Kohut**, and X. Yan. 2009. Seasonal differences in wind-driven across-shelf forcing and response relationships in the shelf surface layer of the central Mid-Atlantic Bight, *J. Geophys. Res.*, 114, C08018, doi:10.1029/2008JC004888.
24. **Dzwonkowski B., **Kohut, J.T.**, and Yan, X.H. 2009. Sub-inertial surface flow field over the shelf of the central Mid-Atlantic Bight, *Continental Shelf Research*, DOI: 10.1016/j.csr.2009.07.005

2010

25. Roarty, H.J., D. E. Barrick, **J.T. Kohut**, S. M. Glenn. 2010. Dual-use of compact HF radars for the detection of mid and large-size vessels - *Turk J Elec Eng & Comp Sci*, Vol.18, No.3, 2010, doi:10.3906/elk-0912-15
26. **Gong, D., **J.T. Kohut**, and S. M. Glenn. 2010. Seasonal Climatology of Wind-Driven Circulation on the New Jersey Shelf, *J. Geophys. Res.*, doi:10.1029/2009JC005520
27. Hunter, E.J., R. Chant, J. Wilkin, and **J. Kohut**. 2010. High Frequency Forcing and Sub-tidal Response of the Hudson River Plume. *J. Geophys. Res.* doi:10.1029/2009JC005620
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EXTENSION ACTIVITIES

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2009

3. **Kohut, J.** 2009. Monitoring our Ocean Planet. Science Saturdays Long Beach Island Foundation of Arts and Sciences. Loveladies, NJ.
4. **Kohut, J.** 2009. Monitoring our Ocean Planet. US Coast Guard Auxiliary Flotilla 04-09. Paoli, PA.
5. **Kohut, J.** 2009. Monitoring our Ocean Planet. Johnson and Johnson Clinical Research Team. New Brunswick, NJ.
6. **Kohut, J.** 2009. Water quality applications enabled by the Mid-Atlantic Regional Coastal Ocean Observing System. New Jersey Water Quality Panel. Trenton, NJ.
7. Manderson, J., L. Palamara, **J. Kohut**, M. Oliver, J. Goff, and S. Gray. 2009. Developing ecological indicators for fisheries management using IOOS defined habitat characteristics in the Mid-Atlantic Bight. Mid-Atlantic Fisheries Management Council Meeting, New York, NY.

2010

8. **Kohut, J.** 2010. The Zen of Ocean Observing. Rutgers University Alumni Weekend.
9. **Kohut, J.** 2010. Monitoring our Ocean Planet: Scarlet Knight's Trans-Atlantic Journey. Rutgers Geology Museum Open House. New Brunswick, NJ. (200 people)
10. **Kohut, J.** 2010. Monitoring our Ocean Planet: Scarlet Knight's Trans-Atlantic Journey. Metuchen/Edison Exchange Club, Metuchen, NJ (15 people)
11. **Kohut, J.** 2010. Monitoring our Ocean Planet: Scarlet Knight's Trans-Atlantic Journey. Morristown High School, Morristown, NJ (25 students)
12. **Kohut, J.**, J. McDonnell, H. Clark, C. Parsons, and C. Linder. 2010. Ross Sea Connections. Presentation as part of the COSEEnow Broaden Your Impact Series.
13. **Kohut, J.** and A. Blumburg. 2010. Ocean Connections: Mapping potential pathways between the spill in the Gulf of Mexico and the Jersey Shore. New Jersey Cabinet Briefing: Gulf Spill Team Response. Trenton, NJ (25 People)
14. **Kohut, J.** and A. Blumburg. 2010. Ocean Connections: Mapping potential pathways between the spill in the Gulf of Mexico and the Jersey Shore. Environmental Summit hosted by State Senator Sean Kean. Long Branch, NJ.
15. **Kohut, J.** 2010. Monitoring our Ocean Planet. Science in the Residence Halls. Perry Hall. New Brunswick, NJ.

2011

16. **Kohut, J.** 2011. Monitoring our Ocean Planet. New Jersey Environmental Health Association. Atlantic City, NJ.
17. **Kohut, J.** 2011. Underwater Gliders: A New Paradigm in Ocean Observation. Monmouth Junior Science Symposium. Long Branch, NJ.
18. **Kohut, J.** 2011. Underwater Gliders: A new paradigm for Ocean Observation. Lincroft Scout Troop 110. Lincroft NJ.
19. **Kohut, J.** 2011. Underwater Gliders: A new paradigm for Ocean Observation Cranbury School 1st Grade. Cranbury, NJ.
20. **Kohut, J.** 2011. Underwater Gliders: A new paradigm for Ocean Observation Summer Camp – Port Norris and Lakeside Middle School. Bridgeton, NJ – 40 students.

2012

21. **Kohut, J.** 2012. Underwater Gliders: A new paradigm for Ocean Observation. Rutgers at the Shore: Event at Bay Head Yacht Club. Rutgers University Foundation.
22. **Kohut, J.** 2012. Underwater Gliders: A new paradigm for Ocean Observation. Invited Speaker: Princeton Agricultural Society Monthly Meeting. - 25 People
23. **Kohut, J.** 2012. Introduction to the Physical Oceanography of the Mid-Atlantic Bight. Co-Convener with Dr. Jon Hare (NOAA) and Dr. John Manderson (NOAA). Marine Resource Education Program - 20 Fisherman

2013

24. **Kohut, J.** 2013. A Robot's View of Our Ocean Planet. Princeton Plasma Physics Lab Science on Saturday Series. 410 people.
25. **Kohut, J.** 2013. A Robot's View of Our Ocean Planet. Invited Speaker: Princeton University Physics Department Support Staff Meeting - 30 people.

2014

26. **Kohut, J.**, 2014. Connecting our changing ocean to you. Community College Professors. New Brunswick, NJ.
27. **Kohut, J.** 2014. Connecting our changing ocean to marine Ecosystems. Climate Change Teacher Workshop. New Brunswick, NJ.

2015

28. **Kohut, J.** 2015. A Robot's view of our Ocean Planet. Long Beach Island Foundation of Arts and Sciences.
29. **Kohut, J.** 2015: A Robot's view of our Ocean Planet. Mercer Agriculture Board Dinner, Invited Speaker

Education and Outreach

2003-2008: MARE Professional Development Workshops, JCNEER, Tuckerton, NJ.
2005-2006: "On The Hudson", Professional Development Workshops, Liberty Science Center, Jersey City, NJ.
2007: Liberty Science Center Re-opening, Liberty Science Center, Jersey City, NJ.
2008: Lecture for the Teachers as Scholars Program. New Brunswick, NJ. (29 Teachers attended)
2009: IOOS/MACOORA Booth, Annual Weekend and Lobster Trade Show, Massachusetts Lobstermen Association
2009. Invited Panelist National Water Quality Monitoring Council Meeting. Salt Lake City, UT.
2009: Rutgers Day – Trenton, NJ. May 14.
2009: Future Scholars Program Facility Tour – June 5.
2009: Perry Residence Hall Presentation – November 19
2009: Presentation and facility tour for the Salem County Mentoring Alliance, an alliance between Big Brother and Big Sister and Salem County schools– November 21
2010: Presentation and Demonstration Activities for the Climate and Environmental Change Teen Summit at Rutgers University – March 3
2010: Presentation and Demonstration Activities for Rutgers Science Saturdays (4-H) – March 13
2011: Ross Sea Broader Impacts
2011: Atlantic Crossing Q&A with NJN
2011: Presentation: Ross Sea Connection, Cranbury School (May 20)
2011: Presentation: Ross Sea Connection with the Potter Thomas School. Philadelphia PA.
2011: Presentation: Summer Science Urban Youth (4H Janice)
2011: Presentation: Cousteau Summer Program (July 22) -
2011-ongoing: PLOCAN Glider School
2012: Presentation: Atlantic Crossing, Highland Park School
2012: Presentation: Teen Environment and Climate Summit
2013: Presentation: Cranbury School Career Day
2013: Presentation: Point Pleasant Boro High School Presentation on Ocean Observing
2014: Cape May Seafood Festival
2015: Science Symposium, CONVERGE Project, Liberty Science Center

Interviews

Including CNN, BBC, The Guardian (UK), NBC4NY, CBS-Philadelphia, NJN, WHYY, WCTC-AM, TVE (Spain), The Philadelphia Enquirer, The Asbury Park Press, NJ105.5, Daily Targum, Press of Atlantic City, Marketwatch, and the Associated Press.

March 2009 – Interview with Wired Magazine about the Atlantic Crossing Glider Mission
June 2012 - Todd Bates, Asbury Park Press - Floatable washups on the beach
June 2012 - Pat Loeb KYW Newsradio, Philadelphia - Warm water temperatures
November 2012 - Associated Press article on Superstorm Sandy's impact
November 2012 - Science Magazine
February 2013 - New York Times - Challenger Project
July 2013 - Star Ledger, WHYY, CBS - Philadelphia - Upwelling conditions along New Jersey coast.
June 2014: WHYY 'The Pulse' - Upwelling conditions along the New Jersey Coast.

Incident Response (data analysis and interpretation)

2006-2008: Monmouth County Health Department.
2007-2008: New Jersey Department of Environmental Protection
2008: Long Beach Township Police Department
2009: Bunker distributions on the shelf, impacts of upwelling on the shelf, Monmouth County Health Department
2009: USCG Search and Rescue Case, 65 Miles SE of Cape May
2009: Clam worms and mussel beach washups, Atlantic County Health Department
2010: Gulf Spill Response Team
2010: Rainfall/Beach Closure Event, Monmouth County Health Department.
2012: USCG search for submerged vessel
2012: Hurricane Sandy with NJDEP
2013: Work with Fisherman Bill Bright to instrument his vessel with a current meter.

FIELD EXPERIENCE

Research Cruises

1997-2001: R/V Caleta, Coastal Predictive Skill Experiments, New Jersey Inner Shelf.
2001: R/V Endeavor, Bistatic CODAR tests, buoy deployment in the Mid Atlantic Bight.
2003: R/V Connecticut, Bistatic CODAR buoy deployment in the Mid Atlantic Bight.
2005: R/V Prince Madog, Liverpool Coastal Ocean Observatory, Liverpool Bay.
2009: R/V Hugh R. Sharp, Mooring deployments in the Mid Atlantic Bight.
2011: RVIB Nathaniel B. Palmer, Ross Sea, Antarctica – Chief Scientist
2014: RVIB Laurence M. Gould and Palmer Station Antarctica
2015: RVIB Laurence M. Gould and Palmer Station Antarctica

CODAR Installations and Site Surveys

1998-2006: New Jersey
2001: Fedje, Norway
2003: North Carolina
2003-2006: Massachusetts
2003: Alaska
2004-2006: Rhode Island
2004-2006: Florida
2005: South Carolina
2005: Georgia
2014: Palmer Deep Antarctica

Glider deployments

Over 400 missions flown in seas and oceans around the world, including the Pacific and Atlantic Oceans, Antarctic coastal Seas and the Mediterranean, Baltic, and Irish Seas.

PRESENTATIONS

Invited Seminars

2001

1. **Kohut, J.,** and S. M. Glenn, 2001. Invited. Development of an HF-Radar system for the New Jersey Shelf Observing System (NJSOS). First Annual International Radiowave Oceanography Workshop, Timberline, Oregon.

2002

2. **Kohut, J.,** S. Glenn., O. Schofield. 2002. Invited: Evolution of the New Jersey Shelf Observing System. Nansen Center, Bergen, Norway.

2004

3. **Kohut, J.** S. Glenn, and O. Schofield. 2004. NJSOS: The evolution of a coastal observatory. University of South Carolina Department of Geological Sciences, Columbia, SC

2005

4. **Kohut, J.** 2005. Application of a nested HF radar network in the New York Bight. University of Delaware. Newark, DE.
5. **Kohut, J.** S. Glenn, O. Schofield, R. Chant, and J. McDonnell. 2005. The coastal ocean observation lab operations center. Boston University, Woods Hole, MA.

2006

6. **Kohut, J.** 2006. Implementing an new paradigm in ocean observing: a view from the COOLRoom. College of Charleston. Charleston SC.
7. **Kohut, J.,** S. Glenn, O. Schofield, R. Chant, and J. McDonnell. 2006. Implementing an new paradigm in ocean observing: a view from the COOLRoom. Coastal Ocean Observing and Modeling. Liverpool, UNITED KINGDOM.

2007

8. **Kohut, J.,** S. Glenn, O. Schofield, R. Chant, and J. McDonnell. 2007. Transition to operational oceanography in the COOLRoom. US Embassy to Spain Talk Series. Madrid, SPAIN.
9. **Kohut, J.,** S. Glenn, O. Schofield, R. Chant, and J. McDonnell. 2007. Transition to operational oceanography in the COOLRoom. ESEEO Final Meeting. Santiago Del Compostela, SPAIN.
10. **Kohut, J.,** S. Glenn, O. Schofield, R. Chant, and J. McDonnell. 2007. Transport pathways of the New York Bight. Oregon State University Seminar. Corvallis, OR.

2008

11. **Kohut, J.** 2008. Application of an ocean observatory to coastal water quality. Rutgers University Department of Environmental Sciences Seminar. New Brunswick, NJ.

2010

12. **Kohut, J.,** and B. Connell. 2010. IOOS Application to Harmful Algal Blooms and Ecosystem Health Monitoring. IOOS Water Quality Workshop. Baltimore, MD.
13. **Kohut, J.** 2010. Monitoring our ocean planet: Ecological Impacts. Ecology and Evolution Seminar, Rutgers University, New Brunswick, NJ.

2011

14. **Kohut, J.,** O. Schofield, S.M. Glenn, C. Jones, and M. Oliver. 2011. Application of underwater gliders in the ecosystem based research of our remote polar seas. Lamont Doherty Earth Observatory, Pallasades, NY.

2012

15. **Kohut, J.** O. Schofield, S. Glenn, C. Jones, M. Oliver. 2012. Small-scale variability of the cross-shelf flow over the coastal shelves of Antarctica as measured by a fleet of underwater gliding robots. Center for Coastal Physical Oceanography, Old Dominion University.
16. **Kohut, J.** 2012. Coastal Water Quality Monitoring. Interstate Seafood Seminar. Cape May, NJ.
17. **Kohut, J.,** Schofield, O., Glenn, S., Jones, C., Oliver, M. 2012. Small-scale variability of the cross-shelf flow over the coastal shelves of Antarctica as measured by a fleet of underwater gliding robots. University of Delaware Seminar. Lewes, DE.
18. **Kohut, J.** 2012. Coastal Water Quality Monitoring. NJDEP Water Quality Summit Plenary Speaker. Rutgers University Eco Complex. Bordentown, NJ.

2013

19. **Kohut, J.,** S. Glenn, O. Schofield, G. Seroka, T. Miles, Y. Xu. 2013. U.S. IOOS Responds to Hurricanes Irene and Sandy. Meeting of the Ocean Studies Board. National Academy of Sciences. Long Branch, NJ.
20. **Kohut, J.,** and Roarty, H. 2013. Introduction and application of HF radar technology. Bangkok Thailand.
21. **Kohut, J.,** and Roarty, H. 2013. Introduction and application of HF radar technology. Asian Conference of Remote Sensing. Bali, Indonesia.
22. **Kohut, J.,** Oliver, M, Benoit-Bird, K. 2013. Ocean Observatories Session. Kavli Frontiers in Science Symposium. National Academy of Sciences. Irvine, CA.

2014

23. **Kohut, J.**, Manderon, J., Oliver, M., Breece, M., Fox, D., Morrison, R. 2014. Across the land-sea boundary: Bringing the dynamics of the fluid into a more informed seascape ecology. Plenary Speaker. RARGOM Annual Meeting. Boston, MA.

2015

24. **Kohut, J.** 2015. A Robot's view of our Ocean Planet. Departmental Seminar. Environmental and Occupational Health Sciences Institute, Rutgers University.

Contributed Presentations (**presentation by student or post-doctoral researcher)

1999

1. **Kohut, J.**, R. Chant, S.M. Glenn and D.E. Barrick, 1999. Use of a SeaSonde HF Radar for Adaptive Sampling at the Long-term Ecosystem Observatory. American Society of Limnology and Oceanography, Santa Fe.
2. Chant, R.J., M.F. Crowley, **J. Kohut** and S.M. Glenn, 1999. Structure of Near-Inertial and Subinertial Motion across an Upwelling Frontal System. American Society of Limnology and Oceanography, Santa Fe.

2000

3. **Kohut, J.** 2000. Contribution of a Validated CODAR-Type HF-Radar System to the Long-term Ecosystem Observatory. Fourth Radar Ocean Sensing (ROSE) Workshop. Nansen Environmental and Remote Sensing (NERSC), Bergen, Norway.
4. **Kohut, J.**, S.M. Glenn, J. Fracassi and R. Chant, 2000. Tidal and Spectral Analysis of Coastal Surface Velocity Fields as Measured by a Validated CODAR System. AGU/ASLO Ocean Sciences, San Antonio.
5. M. Crowley, S.M. Glenn, J. Fracassi and **J. Kohut**, 2000. LEO-15 Records Remote Sensing, Meteorological and In Situ Data from the Eye of Hurricane Floyd. AGU/ASLO Ocean Sciences, San Antonio.

2001

6. **Kohut, J.**, S.M. Glenn and D.E. Barrick, 2001. Multiple HF-Radar System Development for a Regional Long-term Ecosystem Observatory in the New York Bight. American Meteorological Society, *Fifth Symposium on Integrated Observing Systems*, Albuquerque, New Mexico.
7. **Kohut, J.** and S.M. Glenn, 2001. Development of an HF Radar system for the New Jersey Shelf Observing System (NJSOS), Oceanology International Americas, Miami, FL.

2002

8. **Kohut, J.** 2002. Influence of wind and bottom topography on surface dynamics off the coast of New Jersey. American Geophysical Union - Ocean Sciences. Honolulu, Hawaii
9. **Kohut, J.**, and S. Glenn. 2002. A Nested Multi-Static HF Radar Array for the New Jersey Shelf Observing System (NJSOS). 2nd Radiowave Oceanography Workshop (ROW-II). Brest, France
10. Crowley, M., O. Schofield, S. Glenn, and **J. Kohut**. 2002. Development of Coastal Ocean Observatories for Synoptic Oceanography. PICES North Pacific Marine Science Organization. Eleventh Annual Meeting Qingdao, CHINA.

2003

11. **Kohut, J.**, S. Glenn, and H. Roarty. 2003. Recent Results from a Nested Multi-Static HF Radar Network for the NorthEast Observing System (NEOS). Oceans 2003 Marine Technology and Ocean Science Conference. San Diego, CA.
12. Bowers, L., R. Dunk, **J. Kohut**, H. Roarty, and S. Glenn. 2003. Sea Breeze Forecasting and Applications Along the New Jersey Coast. AMS Fifth Conference on Coastal Atmospheric and Oceanic Prediction and Processes. Seattle, WA.
13. **Kohut, J.**, S. Glenn, H. Roarty, R. Chant, D. Haidvogel, and J. Paduan. 2003. Spatial Current Structure Observed with a Validated HF Radar System: The Influence of Local Forcing, Stratification, and Topography on the Inner Shelf. Radiowave Oceanography Workshop. Venice, Italy
14. Roarty, H., **J. Kohut**, and S. Glenn. 2003. Intercomparison of an ADCP, ADP, Standard and Long-range HF RADAR: Influence of Horizontal and Vertical Shear. Radiowave Oceanography Workshop. Venice, ITALY

2004

15. **Kohut, J.**, J. Bosch, S. Glenn, O. Schofield, and M. Oliver. 2004. Evolution of fronts, the Mid-Atlantic Bight: what exit on the ocean highway off New Jersey? AGU Fall Meeting, San Francisco, CA

16. **Kohut, J.** 2004. NJSOS: A Resource for Public Outreach. SEACOOS Outreach Workshop, Raleigh, NC.
17. **Kohut, J.,** H. Roarty, S. Glenn, O. Schofield, R. Chant, et al. 2004. Currents in NJSOS and NEOS. 4th Annual Radio Oceanography Workshop (ROW4). Townsville, AUSTRALIA.
18. Roarty, H., S. Glenn, **J. Kohut,** D. Barrick, and W. Browning. The Use of HF Radar in NJSOS for Ship Detection and Tracking. 4th Annual Radio Oceanography Workshop (ROW4). Townsville, AUSTRALIA.
19. **Kohut, J.,** H. Roarty, S. Glenn, and R. Chant. 2004. Research Sponsorship Meeting on the Mapping of Surface Currents from High Frequency Radar in the Cook Inlet and Beaufort Sea. Minerals Management Service (MMS) - Alaska OCS, Alaska Region. Anchorage, AK.
20. **Kohut, J.,** H. Roarty, S. Glenn, and O. Schofield. 2004. Recent Results from the HF Radar Network from NJSOS & NEOS. USF/ACT Surface Current Radars Workshop. St. Petersburg, FL.
21. **Kohut, J.,** H. Roarty, and S. Glenn. 2004. Recent Results from the HF Radar Network of the New Jersey Shelf Observing System (NJSOS) and the Regional North East Observing System (NEOS). Ocean Research Conference, Honolulu, HI.

2005

22. **Kohut, J.** 2005. Integration of Coastal Ocean Dynamics Application Radar (CODAR) surface current data and Short term Predictive System (STPS) into the Search and Rescue Optimal Planning System (SAROPS). ROW-5 Meeting, Pedscadero, CA.
23. Quinlan J., J. Manderson, P. Shaheen, G. Law, J. Bosch, **J. Kohut,** L. Creed (2004). Understanding the landscape: Fisheries surveys within an integrated ocean observation system in the New York Bight. ASLO 2005: Aquatic Sciences Meeting. Salt Lake City, UT.
24. **Kohut, J.,** Chant, R., Glenn, S., Schofield, O., Oliver, M. J. 2005. Observed response of the Hudson river plume to wind forcing. The International Ocean Research Conference, UNESCO Headquarters, Paris, France.
25. Glenn, S., Schofield, O., Chant R., Kohut J. 2005. Linking IOOS & NWQMN: Applications of New Estuarine & Coastal Observing Technologies. Linking Elements of the Integrated Ocean Observing System (IOOS) Workshop, Rutgers University, New Jersey.
26. Glenn, S., Schofield, O., **Kohut, J.,** Chant, R., McDonnell, J. 2005. Educational needs in the changing field of operational oceanography. Oceans 2005 IEEE, Washington DC.
27. Schofield, O., Glenn, S. M., **Kohut, J.** 2005. The ocean view from the COOLRoom. Oceans 2005 IEEE, Washington DC.
28. **Kohut, J.,** Chant, R. C., Houghton, R., Gardner, B., Wilkin, J., Reinfelder, J., Chen, R., Bissett, P. Moline, M. A., Schofield, O., Zhou, M. 2005. Lagrangian Transport & Transformation Experiment - An Interdisciplinary Process Study of the Hudson River Plume in an Operational Research Observatory. Oceans 2005 IEEE, Washington DC.
29. Frazer, T. F., **Kohut, J.,** Chant, R. C., Houghton, R., Reinfelder, J., Chen, R., Bissett, P. Moline, M. A., Schofield, O., Zhou, M. 2005. Lagrangian Transport & Transformation Experiment: An Interdisciplinary Process Study of the Hudson River Plume in an Operational Research Observatory - Phytoplankton, Zooplankton and Metals. The International Ocean Research Conference, UNESCO Headquarters, Paris, France.
30. Glenn, S. M., **Kohut, J.,** Schofield, O. 2005. Coastal Observatory of the Future: R.U. Cool. The International Ocean Research Conference, UNESCO Headquarters, Paris, France.
31. **Kohut, J.** 2005. Lagrangian Transport & Transformation Experiment: An Interdisciplinary Process Study of the Hudson River Plume in an Operational Research Observatory - Physical Response. TOS 2005 - International Ocean Research Conference, Paris FRANCE
32. Chant, R. C., Glenn, S. M., **Kohut, J.,** Schofield, O. 2005. 7 Years & 11,000 km later: Slocum coastal electric gliders are central to ANY operational ocean observatory. The International Ocean Research Conference, UNESCO Headquarters, Paris, France.
33. Schofield O., R. Chant, S. Glenn, and **J. Kohut.** 2005. Space and Subsurface Remote Sensing of Carbon Cycling for the Mid-Atlantic. North Atlantic Carbon Meeting, Boulder, CO.
34. O. Schofield, **J. Kohut,** S. Glenn, M. Twardowski, C. Moore, T. Stefanic, T. Giddings. 2005. Nephaloid layers and gliders. ONR Site Review. New Brunswick NJ.
35. Kohut J., S. Glenn, and O. Schofield. 2005. Application of a nested HF radar network in the Mid-Atlantic Bight. ONR Site Review. New Brunswick NJ.
36. Schofield, O., **Kohut, J.** 2005. Cook's COOL room: Opening a window to the sea. New Jersey Agricultural Experiment Station Board of Managers. New Brunswick, NJ.

37. Glenn S., O. Schofield, **J. Kohut**, H. Roarty, J. Kerfoot, C. Haldeman, D. Aragon, C. Jones, T. Cambell, E. Creed, and T. Bergmann. 2006. Rutgers University - Webb Research Corporation Partnership for Glider Technologies. Glider Consortium Meeting - Washington, DC
38. Dickey, T., O. Schofield, S. Glenn, J. Cullen, G. Chang, **J. Kohut**, J. Delaney, U. Send, R. Wells, M. Lewis, C. Moore. 2006. Eulerian Observatories. Eulerian Observatory Workshop. MONACO.
39. **Kohut, J.**, W. Brown, D. Ullman, D. Halloway, A. Allen, M. Lewandowski, J. O'Donnell, A. Blumberg, M. Bruno, S. Glenn, M. Baidey, B. Lipphardt, D. Kirwan, W. Boicourt, J. Moisen, L. Atkinson, M. Bushnell, J. Harlan, and H. Seim. A Regional HF Radar Pilot Product: Serving IOOS needs in the Mid-Atlantic Bight. Ocean Sciences Meeting. Honolulu, HI.
40. **Kohut, J.**, J. McDonnell, S. Glenn and R. Chant.. 2006. On the Hudson River: New and innovative programs linking scientists to educators, their students, and the general public. Ocean Sciences Meeting. Honolulu, HI.
41. Hunter, E., R. Chant, **J. Kohut**, L. Bowers, and S. Glenn, 2006. Sea breeze forcing on the New Jersey Shelf. Ocean Sciences Meeting. Honolulu, HI.
42. Glenn, S., O. Schofield, R. Chant, and **J. Kohut**. 2006. Educational needs in the changing fields of operational oceanography. Ocean Sciences Meeting. Honolulu, HI.
43. **Dzwonkowski, B., X. Yan, and **J. Kohut**. 2006. Analysis of inertial and sub-inertial surface currents from high frequency radar in the central Mid-Atlantic Bight. Ocean Sciences Meeting. Honolulu, HI.
44. Roarty, H., A. Yan, **J. Kohut**, and S. Glenn. 2006. The use of HF radar to measure wave parameters. Ocean Sciences Meeting. Honolulu, HI.
45. Chant, R., S. Glenn, E. Hunter, **J. Kohut**, R. Chen, and J. Wilkin. 2006. Bulge formation and cross-shelf transport of the Hudson estuarine discharge. Ocean Sciences Meeting. Honolulu, HI.
46. McDonnell, J., **J. Kohut**, E. Simms, and S. Glenn. 2006. The value of coastal ocean observations: A perspective from the coastal ocean observation laboratory (COOL). Ocean Sciences Meeting. Honolulu, HI.
47. **Gong, D., S. Glenn, R. Chant, J. Wilkin, and **J. Kohut**. 2006. NJ turnpike – Dynamics of the Hudson shelf valley. Ocean Sciences Meeting. Honolulu, HI.
48. Ullman, D., J. O'Donnell, **J. Kohut**, T. Fake, and A. Allen. 2006. Trajectory prediction using HF radar surface currents: Monte Carlo simulations of prediction uncertainties. Ocean Sciences Meeting. Honolulu, HI.
49. Schofield, O., J. Kerfoot, **J. Kohut**, H. Roarty, C. Jones, and S. Glenn. 2006. Studying particle dynamics on continental shelves using Slocum Webb gliders. Ocean Sciences Meeting. Honolulu, HI.
50. Kerfoot, J., S. Glenn, **J. Kohut**, O. Schofield, H. Roarty. 2006. Correction for thermal lag effects in non-pumped temperature conductivity sensors on the Slocum coastal electric glider. Ocean Sciences Meeting. Honolulu, HI.
51. Quinlan, J., J. Manderson, P. Shaheen, C. Law, J. Pessutti, **J. Kohut**, J. Bosch, and E. Creed. 2006. Two years of observation: The occurrence and possible ecological role of layered structure in the New York Bight. Ocean Sciences Meeting. Honolulu, HI.
52. Glenn, S., O. Schofield, R. Chant, and **J. Kohut**. 2006. Observed response of the Hudson plume to wind forcing in an operational research observatory. Ocean Sciences Meeting. Honolulu, HI.
53. Frazer, T., O. Schofield, M. Moline, S. Glenn, **J. Kohut**, R. Chant, S. Keller, M. Oliver, J. Reinfelder, M. Zhou, and R. Chen. 2006. LaTTE 2005: Super size me. Ocean Sciences Meeting. Honolulu, HI.
54. Bosch, J., O. Schofield, **J. Kohut**, and S. Glenn. 2006. East coast plumes and blooms: Monitoring on-ramp traffic to the ocean highway off New Jersey. Ocean Sciences Meeting. Honolulu, HI.
55. **Kohut, J.** S. Lichtenwalner, S. Glenn, and H. Roarty. 2006. HF Radar QA/QC challenges. SEACOOS QA/QC Workshop. Raleigh, NC.
56. Schofield, O., **J. Kohut**, J. Wilkin, S. Glenn, and K. Fennel. 2006. GOES-MAB 2007: Hot Summer in the City. GOES, Monterey, CA.
57. Schofield, O., S. Glenn, **J. Kohut**, H. Roarty, J. Kerfoot, C. Haldeman, D. Aragon, M. Moline, and I. Roberts. 2006. Rutgers University - Gliders and GOES risk reduction. GOES, Monterey, CA
58. Glenn S., O. Schofield, R. Chant, **J. Kohut**, H. Roarty, J. Graver, J. Wilkin, H. Arango, J. Levin, J. Zavala-Garay, G. Zhang, and J. McDonnell. 2006. Coastal Ocean Modeling, Observation, and Prediction. ONR Northeast Review Meeting, Woods Hole, MA.
59. Glenn, S. and **J. Kohut**. 2006. Coastal ocean modeling, observation, and prediction. American Shore & Beach Preservation Association Conference. Long Branch, NJ.

60. **Kohut, J. S.** Glenn, O. Schofield, R. Chant, and J. McDonnell. 2006. Transition to operational oceanography in the COOLRoom. EESEO Project meeting. Madrid, SPAIN.
61. Glenn, S., J. Wilkin, **J. Kohut**, O. Schofield, R. Chant, and J. McDonnell. 2006. Data Assimilation activities associated with COOL. Coastal Ocean Observing and Modeling. Liverpool, UNITED KINGDOM.
62. Glenn, S. O. Schofield, R. Chant, **J. Kohut**, J. Wilkin, H. Arango, J. Levin, J. Zavala-Garay, G. Zhang, and J. McDonnell. 2006. Coastal ocean modeling, observation, and prediction, program: Exploring the limits of predictability on the coastal interface. Workshop on Coastal Manager Needs for Coastal & Ocean Observations for Inundation. Baltimore, MD.

2007

63. **Kohut, J.**, W. Brown, D. Ullman, D. Halloway, A. Allen, M. Lewandowski, J. O'Donnell, A. Blumberg, M. Bruno, S. Glenn, M. Baidey, B. Lipphardt, D. Kirwan, W. Boicourt, J. Moisen, L. Atkinson, M. Bushnell, J. Harlan, and H. Seim. 2007. A Regional HF Radar Testbed. ROW-7 Meeting. Cancun, MEXICO
64. Glenn, S., **J. Kohut**, O. Schofield, R. Chant, and J. McDonnell. 2007. Innovating ocean science for a healthy planet. ROW-7 Meeting. Cancun, MEXICO
65. McDonnell, J., S. Lichtenwalner, **J. Kohut**. 2007. Observing the ocean from inside the COOLroom. Professional Development Institute, Virginia Institute of Marine Science.
66. Chant, R., E. Hunter, S. Glenn, G. Zhang, J. Wilkin, **J. Kohut**. 2007. Bulge formation of the Hudson River outflow: the roles of tides and Diurnal winds. Mid-Atlantic Bight Physical Oceanography and Meteorology Meeting.
67. Schofield, O., S. Glenn, J. Corredor, D. Iglesias-Rodriguez, L. Kerkhof, G. Kirkpatrick, **J. Kohut**, J., Morell, M. Moline, M. Oliver, M. Twardowski. 2007. Robotic networks and unveiling the forcing of biological complexity in the oceans. BERMUDA.
68. **Kohut, J.** 2007. Unveiling transport pathways in the New York Bight and its importance for shelf biogeochemistry, human economy, and health and safety. Rutgers Seminar. New Brunswick, NJ.

2008

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171. Adams, D., **Kohut, J.**, Schuster, R. 2012. Spatial and temporal monitoring of dissolved oxygen in NJ coastal waters using AUVs. QARTOD Dissolved Workshop on Dissolved Oxygen. Stennis MS.
172. **Kohut, J.** J.P. Manderson, Gray, S., DiDomenico, G., Oliver, J. , Palamara, L. 2012. Collaborative development of regional scale, dynamic habitat models in the context of Squid/Butterfish by catch. Workshop for development of a Quantitative Seascape Ecology Supporting Ecosystem Assessment and Management. New Brunswick, NJ.
173. Manderson J.P. **Kohut, J.** Hoey, J., DiDomenico, G. 2012. The butterfish smackdown: Steps towards the development of an operational seascape ecology in support of ecosystem co-management. World Fisheries Congress. Edinburgh SCOTLAND.
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175. Glenn, S., Schofield, O., **Kohut, J.**, Roarty, H., Kerfoot, J., Oliver, M., Seim, H., Seroka, G., Palamara, L., Bowers, L., Dunk, R., Crowley, M., Boicourt, W., Brown, W., Atkinson, L. 2012. Impact of ocean observations on Hurricane Irene intensity forecasts. *Marine Technology Society/IEEE Oceans*. Hampton Roads, VA.
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177. **Kohut, J.**, and Manderson, J. 2012. Can we improve stock assessments by using dynamic habitat models and fishery-dependent surveys as a supplement to current fishery-independent surveys? ICES Annual Science Meeting. Bergen, NORWAY.

2013

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181. Roarty, H., Glenn, S., **Kohut, J.**, Rivera, E., Palamara, L., Handel, E., Smith, M. 2013. Results from the Mid-Atlantic high frequency radar network. N2ARC Amateur Radio Facilities, NJ.
182. Glenn, S., **Kohut, J.**, Roarty, H., Kerfoot, J., Handel, E., Smith, M., Evans, C. 2013. Update from the Mid-Atlantic HF radar network: Multi-use current mapping and vessel tracking applications. Norwegian Defense Research Establishment. Kjeller NORWAY.
183. **Kohut, J.**, 2013. HF radar applications: Search and rescue, floatables, and fisheries. HF Radar Tutorial. IEEE/MTS Oceans Meeting. Bergen, NORWAY.
184. Roarty, H., Whelan, C., **Kohut, J.**, Glenn, S., Hubbard, M. 2013. Improving the measurements of high frequency radar: Reduced averaging times and bistatics. IEEE/MTS Oceans Meeting. Bergen, NORWAY.
185. **Kohut, J.**, Manderson, J., DiDomenico, G., Oliver, M., Palamara, L., Curchitser, E. 2013. Toward dynamic marine spatial planning tools: an example with butterflyfish assessment in the Mid-Atlantic Bight. IEEE/MTS Oceans Meeting. Bergen, NORWAY.
186. Glenn, S., Seroka, G., Miles, T., Xu, Y., Bowers, L., Kerfoot, J., Palamara, L., Dunk, R., Roarty, H., **Kohut, J.**, Georgas, N., Schofield, O., Blumberg, A. 2013. Process-driven improvements to hurricane intensity forecasts in the Mid-Atlantic Bight. IEEE/MTS Oceans Meeting. Bergen, NORWAY.
187. Oliver, M. J., M. A. Cimino, A. Irwin, W. Fraser, **J. Kohut**, O. Schofield, M. Moline. 2013. Satellite Driven Studies of Climate-Mediated Changes in Antarctic Food Webs. NASA Biodiversity and Ecological Forecasting Team Meeting, April 23-25, 2013, Arlington, VA.
188. Manderson, J., **Kohut, J.**, OpenOcean Study Group. 2013. A simple approach to packing space into time and a thermal habitat indicator for ecosystem assessment. NART Data visualization workshop. Portsmouth, NH.
189. Manderson, J., **Kohut, J.**, OpenOcean Study Group. 2013. A simple approach to packing space into time and a thermal habitat indicator for ecosystem assessment. ICES Working Group Meeting on the Northwest Atlantic Regional Sea. Halifax, Nova Scotia, CANADA.
190. Manderson, J., **Kohut, J.**, Jensen, O., OpenOcean Study Group. 2013. Climate change, thermal habitat dynamics, habitat coverage bias & foodweb dynamics with special reference to butterflyfish. NEFSC Seminar Series Woods Hole Laboratory. Woods Hole, MA.
191. Manderson, J., **Kohut, J.**, OpenOcean Study Group. 2013. Climate change, thermal habitat dynamics, habitat coverage bias & population dynamics in offshore forage species (butterfish & longfin squid) central to the MAB food web. MAFMC Squid Summit, Riverhead, NY.
192. Manderson, J., **Kohut, J.**, OpenOcean Study Group. 2013. Insights into shelf break front dynamics, winter habitat, & keystone forage populations gained from collaborations with fishermen. CINAR Shelfbreak Workshop. Providence, RI.
193. **Kohut, J.**, Manderson, J., OpenOcean Study Group. 2013. The power of partnership between science and the fishing industry in applied ecosystem science. CINAR Shelfbreak Workshop. Providence, RI.
194. **Kohut, J.**, Manderson, J., Palamara, L., DiDomenico, G., OpenOcean Study Group. 2013. Climate change, thermal habitat dynamics, habitat coverage bias and food web dynamics with special reference to keystone forage species in the mid Atlantic Bight. Managing our Nation Fisheries 3 Conference. Washington DC.

2014

195. Glenn, S., Schofield, O., **Kohut, J.** 2014. Leveraging Ocean Observatories and Web-based Educational Tools for Sustained Undergraduate Research in Ocean Science. Ocean Sciences Meeting. Honolulu, HI.
196. **Kohut, J. T.**, Lichtenwalner, C. S., Florio, K., Gardner, K., Linder, C. 2014. Research and Education in the Antarctic: Scientists Share Their Research Experience in Real-time with Middle School Teachers and Students. Ocean Sciences Meeting. Honolulu, HI.
197. Palamara, L., Manderson, J., **Kohut, J.**, Curchitser, E., Kang, D. 2014. Variability in thermal habitat dynamics for a pelagic forage fish estimated by coupling a thermal niche model to a hydrodynamic ocean model. Ocean Sciences Meeting. Honolulu, HI.

198. Schmidt, A., Georgas, N., Manderson, J., **Kohut, J.**, Gangopadhyay, A. 2014. A Simple Bias Correction To Improve Bottom Temperature Estimation. Ocean Sciences Meeting. Honolulu, HI.
199. Miles, T. N., Glenn, S., Schofield, O., **Kohut, J.**, Seroka, G. 2014. Sediment Transport In Hurricane Sandy. Ocean Sciences Meeting. Honolulu, HI.
200. Brown, W., Schofield, O., Glenn, S., **Kohut, J.**, Boicourt, W. 2014. The Evolution Of The 2007 Mid-Atlantic Cold Pool. Ocean Sciences Meeting. Honolulu, HI.
201. **Kohut, J. T.**, Kustka, A., Lam, P., Measures, C., Milligan, A. 2014. Deep Water Intrusions As An Iron Source To The Summer Ross Sea Ecosystem: The Slocum Enhanced Adaptive Fe Algal Research In The Ross Sea (Seafarers) Project. Ocean Sciences Meeting. Honolulu, HI.
202. Carvalho, A. F., Schofield, O., Saba, G., **Kohut, J.**, Ducklow, H. 2014. The Role Of Light Availability And Nutrient Delivery In Controlling The Spring Phytoplankton Bloom In Palmer Deep Canyon In The West Antarctic Peninsula. Ocean Sciences Meeting. Honolulu, HI.
203. Lam, P. J., Ohnemus, D. C., Auro, M. E., **Kohut, J.**, Hatta, M. 2014. Sediments As A Source Of Iron In The Ross Sea: Sediment Characteristics And Particulate Iron. Ocean Sciences Meeting. Honolulu, HI.
204. Haldeman III, C., Aragon, D., Roarty, H., Glenn, S., **Kohut, J.** 2014. Enabling Shallow Water Flight On Slocum Gliders. Ocean Sciences Meeting. Honolulu, HI.
205. Manderson, J. P., **Kohut, J. T.** 2014. Habitat Models Can Be Used In Coastal Ocean Observing Systems To Guide Process Based Studies Informing Ecosystem Assessments. Ocean Sciences Meeting. Honolulu, HI.
206. Kohut, J., Manderson, J., Oliver, M., Breece, M., 2014. Can we improve fisheries stock assessments by using dynamic habitat models informed by the Integrated Ocean Observing System (IOOS)? Oceanology International Meeting. London, UK.
207. Kohut, J., Bernard, K., Fraser, W., Oliver, M., Statschewich, H., Winsor, P. 2014. Collaborative research: Impacts of local oceanographic processes on Adélie penguin foraging ecology over Palmer Deep. Radiowave Oceanography Workshop. Savannah GA.
208. Kohut, J., Bernard, K., Fraser, W., Oliver, M., Statschewich, H., Winsor, P. 2014. Collaborative research: Impacts of local oceanographic processes on Adélie penguin foraging ecology over Palmer Deep. PAL-LTER Annual Meeting. Williamsburg, VA.

2015

209. Kohut, J., Bernard, K., Fraser, W., Oliver, M., Statschewich, H., Winsor, P. 2015. Collaborative Research: Impacts of local oceanographic processes on Adélie Penguin foraging ecology over Palmer Deep. Palmer Station, ANTARCTICA.
210. Kohut, J., Kincaid, C. 2015. The United States Integrated Ocean Observing System (IOOS). Hudson River Symposium. New Paltz, NY.
211. Glenn, S., Kohut, J., Roarty, H. 2015. Globalizing Frontier Technologies for Integrated Ocean-Atmosphere Observing and Forecasting. BMKG. Jakarta, INDONESIA.
212. Glenn, S., Kohut, J., Roarty, H. 2015. Globalizing Frontier Technologies for Integrated Ocean-Atmosphere Observing and Forecasting. Department of Marine and Fisheries Affairs. Jakarta, INDONESIA.
213. Glenn, S., Kohut, J., Roarty, H. 2015. Globalizing Frontier Technologies for Integrated Ocean-Atmosphere Observing and Forecasting. BIG. Jakarta, INDONESIA.

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Grace Kathleen Saba, PhD
Position: Assistant Research Professor
Office Address: Institute of Marine and Coastal Sciences
Rutgers University
71 Dudley Rd.
New Brunswick, NJ 08901
Office phone: (848) 932-3466; Email: saba@marine.rutgers.edu

EDUCATION

Aug 2003 – Jan 2010 *PhD* in Marine Science
College of William & Mary
Virginia Institute of Marine Science, Department of Biological Sciences

Sept 2000 – June 2002 *B.S.* in Aquatic Biology
University of California, Santa Barbara

RESEARCH/PROFESSIONAL EXPERIENCE

Feb 2010 – present Plankton ecology, physiology, biogeochemistry, ocean acidification, and impacts of climate change in the West Antarctic Peninsula. (*RV Laurence M. Gould* cruises and laboratory research as part of the Palmer Long Term Ecological Research program)
Rutgers University

Aug 2003 – Jan 2010 The Role of Copepods and Heterotrophic Dinoflagellates in the Production of Dissolved Organic Matter and Inorganic Nutrients
Ph.D. Dissertation Research
College of William & Mary, Virginia Institute of Marine Science

June 2001 – Dec 2002 1) Dissolved organic carbon composition in marine snow particles (*RV Point Sur* cruise sample collection and post-cruise processing)
2) Transparent Exopolymer Particle (TEP) excretion by *Calanus pacificus*
3) Physiology and metabolism of hydrothermal vent clams, mussels, and worms (*RV New Horizon* cruises with data collection and processing)
4) Bacterial degradation of TEP
Undergraduate Research
University of California, Santa Barbara with Drs. Alice Alldredge and Jim Childress

PUBLICATIONS (Current and in press)

Saba, G.K., Schofield, O., Torres, J.J., Ombres, E.H., and D.K. Steinberg. Increased feeding and nutrient excretion of adult Antarctic krill, *Euphausia superba*, exposed to enhanced carbon dioxide (CO₂). PLoS ONE: doi:10.1371/journal.pone.0052224.

Schofield, O., Kohut, J., **Saba, G.**, Yi, X., Wilkin, J., and S. Glenn. Ocean observing and prediction. In: Y.Q. Wang, ed., Encyclopedia of Natural Resources. Taylor Francis, New York City (in press).

Saba, G.K., and D.K. Steinberg. 2012. Abundance, composition, and sinking rates of fish fecal pellets in the Santa Barbara Channel. Scientific Reports 2: doi:10.1038/srep00716.

- Saba, G.K.**, Steinberg, D.K., and D.A. Bronk. 2011. The relative importance of sloppy feeding, excretion, and fecal pellet leaching in the release of dissolved carbon and nitrogen by *Acartia tonsa* copepods. *Journal of Experimental Marine Biology and Ecology* 404: 47-56.
- Saba, G.K.**, Steinberg, D.K., Bronk, D.A., and A.R. Place. 2011. The effects of harmful algal species and food concentration on zooplankton grazer production of dissolved organic matter and inorganic nutrients. *Harmful Algae* 10: 291-303.
- Saba, G.K.**, Steinberg, D.K., and D.A. Bronk. 2009. Effects of diet on release of dissolved organic and inorganic nutrients by the copepod *Acartia tonsa*. *Marine Ecology Progress Series* 386: 147-161.
- Steinberg, D.K. and **G.K. Saba**. 2008. Nitrogen consumption and metabolism in marine zooplankton. In: Capone, D.G., Bronk, D.A., Mulholland, M.R., and E.J. Carpenter, eds., *Nitrogen in the Marine Environment*, 2nd Edition. Academic Press, Boston. p 1135-1196.
- Goldthwait, S.A., Carlson, C.A., **Henderson, G.K.**, and A.L. Alldredge. 2005. Effects of physical fragmentation on remineralization of marine snow. *Marine Ecology Progress Series* 305: 59-65.

TEACHING/MENTORING EXPERIENCE

- | | |
|-----------------------|--|
| May 2012 – present | Mentor for undergraduate student research (Amanda Williams, Rutgers University)
“Functional genomic analysis of the Antarctic cryptophyte, <i>Geminigera cryophila</i> , under variable salinity, light, and nutrient regimes”
Institution: Rutgers University |
| Oct 2010 – April 2012 | Mentor for undergraduate student research (Emily Pirl, Rutgers University)
“The Effects of Increased CO ₂ on the Optical Properties of <i>Emiliania huxleyi</i> ”
Institution: Rutgers University |
| Oct 2010 – April 2012 | Mentor for undergraduate student research (Amelia Snow, Rutgers University)
“The Effects of Ocean Acidification on the Physiology of Dominant Antarctic Algal Species”
Institution: Rutgers University |
| Feb 2010 – May 2010 | Guest Lecturer in undergraduate/graduate course “Biological Oceanography”
Institution: Rutgers University, Instructor: Dr. Oscar Schofield |
| Aug 2009 – Dec 2009 | Teaching assistant and guest lecturer in graduate course “Biological Oceanography”
Institution: Virginia Institute of Marine Science, Instructor: Dr. Deborah Steinberg |
| Jan 2008 – July 2008 | Co-mentor for undergraduate student research (Miram Gleiber, currently a graduate student in marine science)
“Time series of vertical flux of zooplankton fecal pellets on the continental shelf of the Western Antarctic Peninsula”
Institution: Virginia Institute of Marine Science |
| June 2007 – Aug 2007 | Mentor for undergraduate student research (Lori Price, received a Masters degree in marine science August 2012 from College of William & Mary, VIMS)
“Zooplankton grazing on two ecologically important harmful algal species in the Chesapeake Bay”
Institution: Virginia Institute of Marine Science |

GRANTS RECEIVED

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|------|---|
| 2012 | Functional genomic analysis of the Antarctic cryptophyte, <i>Geminigera cryophila</i> , under variable salinity, light, and nutrient regimes. NJAES Competitive Intramural Research Awards Program. Amount awarded: \$8000. |
| 2006 | EPA STAR Graduate Fellowship
\$1000 Student Research Grant |

	\$500 VIMS Travel Grant
2005	\$1000 VIMS Equipment Grant
	\$100 VIMS GSA Conference Fund
2003	Virginia Institute of Marine Science/School of Marine Science Funded Fellowship

EDUCATION AND OUTREACH

2012	Invited speaker for Princeton Harmony Schools science fair, Toddler-Kindergarten
2012	Invited speaker for Stony Brook University outreach program entitled “Polar Climate Change Research: A Workshop for Educators”
2012	Participant in COSEE NOW outreach program “Gear Professional Development Series”
2012	Participant in COSEE NOW outreach program “Science Stories 2012”
2003-2010	Marine Science Day, Virginia Institute of Marine Science (VIMS)

SYNERGISTIC ACTIVITIES

July 2012-present	Editorial Board Member of <i>Scientific Reports</i> journal
2012	Keynote speaker at the XXXII Scientific Committee on Antarctic Research (SCAR) meeting (Portland, OR)
2012	Invited talk at Ocean Acidification Town Hall Meeting at the XXXII SCAR meeting (Portland, OR)
2011	Invited speaker: Graduate School of Oceanography, University of Rhode Island
2011	Invited speaker: Atmospheric and Ocean Sciences, Princeton University
2010-present	Review proposals for the National Science Foundation
2010-present	Review manuscripts for Geophysical Research Letters, Marine Biology, Limnology & Oceanography, Polar Biology, Functional Ecology, Biogeosciences, Aquatic Microbial Ecology, Biogeochemistry
2010	Co-Chair of “Biological Oceanography General Contributions” session at Ocean Sciences Meeting (Portland, OR)
2005	Invited speaker: Dissolved Organic Matter IN the Ocean (DOMINO) workshop, Virginia Institute of Marine Science

HONORS AND AWARDS

2005	“Top 50” student presenters from the Estuarine Research Federation (Norfolk)
2004	Craig L. Smith Memorial Educational Scholarship Award
2003, 2005	NSF Graduate Fellowship Honorable Mention
2002	Beatrice M. Sweeney Award
2002	Highest Honors
2002	Distinction in the major
2002	Department of Biological Sciences Senior Honors Research Program, UCSB
2001, 2002	Dean’s Honors