

Name: Debra Lee Hernandez
Title: Executive Director
Southeast Coastal Ocean Observing Regional Association (SECOORA)

Professional Preparation:

<u>Institution</u>	<u>Location</u>	<u>Major</u>	<u>Degree</u>
Undergraduate: Clemson University	Clemson, SC	Civil Engineering	Bachelor of Science
Graduate: Clemson University	Clemson, SC	Civil Engineering	Master of Science

Work Experience:

Ms. Hernandez currently serves as Executive Director of the Southeast Coastal Ocean Observing Regional Association (SECOORA). SECOORA is one of eleven regional partners in the U.S. Integrated Ocean Observing System and is a nonprofit operating in the states of NC, SC, GA and FL to coalesce the efforts of multiple observing interests and deliver user defined products that save lives, conserve the coastal and marine environment and support the economic vitality of our coastal regions. Since joining SECOORA she has been lead PI on several multi-year regional observing projects, as well as related marine policy and science programs. Her experience includes coastal and ocean engineering, management and policy. Prior to joining SECOORA, Ms. Hernandez led her own consulting firm and worked in state coastal management as an environmental engineer and coastal policy expert. Her professional interests include improving the linkages between scientists and decision-makers, and facilitating discussions of public policy issues related to the coast and environment. She was also a licensed professional engineer for many years, and is a life-long resident of Charleston, SC.

Appointments:

2008 – Present Executive Director, SECOORA, Charleston, S.C.
2006 – 2011 President, Hernandez and Company, LLC, Isle of Palms, S.C.
2000 – 2006 Director of Program and Policy Development, S.C. Department of Health and Environmental Control (DHEC), Office of Ocean and Coastal Resource Management (OCRM), Charleston, S.C.
1998 – 2000 Assistant Director of Planning, S.C. DHEC OCRM, Charleston, S.C.
1988 – 1998 Environmental Engineer / Manager of Non-point Source and Special Projects, S.C. DHEC OCRM, Charleston, S.C.

Publications:

1. Acidification in the U.S. Southeast: Causes, Potential Consequences and the Role of the Southeast Ocean and Coastal Acidification Network. Hall ER, Wickes L, Burnett LE, Scott GI, Hernandez D, Yates KK, Barbero L, Reimer JJ, Baalousha M, Mintz J, Cai W-J, Craig JK, DeVoe MR, Fisher WS, Hathaway TK, Jewett EB, Johnson Z, Keener P, Mordecai RS, Noakes S, Phillips C, Sandifer PA, Schnetzer A and Styron J (2020). *Front. Mar. Sci.* 7:548. doi: 10.3389/fmars.2020.00548
2. The U.S. Integrated Ocean Observing System: Governance Successes and Lessons from Two Decades of Growth. Jessica Snowden, Debra Hernandez, Josie Quintrell, Alexandra Harper, Ru Morrison, Julio Morell, Lynne Leonard. *Frontiers in Marine Science.* 6:242. DOI: 10.3389/fmars.2019.00242
3. From the Oceans to the Cloud: Opportunities and Challenges for Data, Models, Computation and Workflows. Tiffany C. Vance, Micah Wengren, Eugene Burger, Debra Hernandez, Timothy Kearns, Nazila Merati, Kevin O'Brien, Jon O'Neil, Jim Potemra, Richard P. Signell, Kyle Wilcox. *Frontiers in Marine Science.* DOI: 10.3389/fmars.2019.00211
4. WebCAT: Piloting the development of a web camera coastal observing network for diverse applications. Gregory Dusek, Debra Hernandez, Mark Willis, Jenna A. Brown, Joseph W. Long, Dwayne E. Porter, Tiffany C. Vance. *Frontiers in Marine Science.* 6:353. DOI: 10.3389/fmars.2019.00353.
5. Integrating Environmental Monitoring and Observing Systems in Support of Science to Inform Decision-making: Case Studies for the Southeast. Chapter 22 in *Coastal Ocean Observing Systems: Advances and Syntheses.* Porter, D.E., J. Dorton, L. Leonard, H. Kelsey, D. Ramage, J. Cothran, A. Jones, C. Galvarino, V. Subramanian and D. Hernandez. Y. Liu, H. Kerkering and R. Weisberg (eds.). Elsevier Press. DOI:10.1016/B978-0-12-802022-7.00022-5

6. A Case History of the Science and Management Collaboration in Understanding Hypoxia Events in Long Bay, South Carolina, USA. D. Sanger, D. Hernandez, S. Libes, G. Voulgaris, B. Davis, E. Smith, R. Shuford, D. Porter, E. Koepfler and J. Bennett, *Environmental Management*, Volume 46, Number 3, 340-350, DOI: 10.1007/s00267-010-9529-8
7. Establishing A Minimum Standard for Collaborative Research in Federal Environmental Agencies, K. Matso, M. Dix, B. Chicoski, D. Hernandez, and J. Schubel, *Integrated Environmental Assessment and Management*, Manuscript Number: IEAM_2007-070

Synergistic Activities:

2022 – present: The Citadel Near Center for Climate Studies Advisory Board
 2020, January 7-10 Delegate and Cross-Cutting Theme Champion, UN Decade on Ocean Science for Sustainable Development, North Atlantic Regional Workshop

2016 – present: Southeast and Caribbean Disaster Resilience Partnership, Advisory Board
 2016 – 2021: Integrated Ocean Observing System Association, Chair
 2015 – present: Southeast Ocean and Coastal Acidification Network, Executive Committee
 2014 – present: NOAA Southeast and Caribbean Regional Team
 2012 – 2014: National Academy of Sciences Panel to Review the National Climate Assessment
 2008 – present: Integrated Ocean Observing System Association Board
 2006 – 2011: National Academy of Sciences Ocean Studies Board
 2005 – 2008: Ocean Research and Resources Advisory Panel (ORRAP), Vice-Chair
 2002 – 2004: Coastal States Organization, Washington, D.C., Chair
 2005 – 2010: Coastal States Stewardship Foundation, Vice-Chair
 2005 – present: South Carolina Sea Grant Consortium Program Advisory Board
 1995 – 1999 Isle of Palms City Council

Collaborators and Other Affiliations:

Drs. L. Leonard and J. Long–UNC-W, Drs. B. Blanton, R. Luetlich, M. Piehler and H. Seim–UNC-CH, Dr. D. Johnston–Duke, Dr. M. Muglia–East Carolina U, Drs. R. He and N. Nelson–NCSU, J. Warrillow–Fathom Science LLC, Dr. N. Elko–ASBPA and SCBA, Dr. P. Gayes–CCU, Drs. D. Porter and G. Voulgaris–USC, Dr. E. Montie–USC Beaufort, Dr. D. Sanger and T. Smart–SCDNR, Drs. C. Edwards, D. Savidge and W. Savidge–UGA SkIO, Drs. K. Cobb, E. DiLorenzo and F. Zhang–GaTech, C. Kalinowsky–GADNR, Dr. Q. White–JU, Dr. S. Lazurus–FIT, J. Murley–Miami Dade County, Drs. N. Hammerschlag and L. Shay–UM, Dr. T. Troxler–FIU, Drs. L. McEachron and J. Young–FL FWCC FWRI, Drs. C. Hu, C. Lembke, C. Merz, G. Mitchum, R. Weisberg–USF, Drs. M. Crosby, E. Hall, and J. Locascio–Mote Marine Lab, R. Cole–RDSea International, Dr. A. Pang–UCSC, Drs. G. Dusek, C. Taylor, J. Snowden and T. Vance–NOAA, Dr. Julio Morrell–CariCOOS and UPR, Dr. B. Kirkpatrick–GCOOS and TAMU, J. Quintrell–IOOS Association, J. Dorton–SECOORA, K. Wilcox–Axiom Data Science, Dr. C. Lautenbacher, Jr.–GeoOptics, P. Barrineau–Coastal Science and Engineering, E. VanderKloet–Ocean Tracking Network, Dr. S. Lovelace–SCSGC.

Graduate Advisor: Dr. Earl Hayter, Clemson University, US Environmental Protection Agency

Member: The Oceanography Society, Marine Technology Society, IOOS Association, GCOOS