

## SUSAN NORMA WHITE

NC State University  
Box 8605  
Raleigh, NC 27695

Tel: 919-515-2455  
Email: snwhite3@ncsu.edu

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### PROFESSIONAL CAREER

- 2012 – Executive Director  
North Carolina Sea Grant College (NCSG) Program & Water Resources Research  
Institute (WRI) of the University of North Carolina System
- 2010-2012 Director/Supervisory Ecologist  
Hollings Marine Laboratory and Center of Excellence in Oceans and Human  
Health National Oceanic and Atmospheric Administration/National Ocean  
Service/National Centers for Coastal Ocean Science. Charleston, SC.
- 2007 – 2010 Deputy Director (Acting)/ Ecologist. Hollings Marine Laboratory and Center of  
Excellence in Oceans and Human Health. NOAA/National Ocean Service/National  
Centers for Coastal Ocean Science. Charleston, SC.
- 2005 – 2007 National Research Coordinator/Ecologist. NOAA/National Ocean Service, Estuarine  
Reserves Division and National Estuarine Research Reserve System. Silver Spring, MD.
- 2004 – 2005 Federal Program Officer. NOAA National Ocean Service, Estuarine Reserves Division.  
Silver Spring, MD.

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### EDUCATION AND ACADEMIC SERVICE

- 2014- Current NC State University, Adjunct Professor
- 2008 – 2012 College of Charleston, Adjunct Professor
- 2008 – 2012 University of South Carolina, Adjunct Professor
- 1999 – 2004 University of Georgia. PhD: *Spartina* species zonation along an estuarine gradient in  
Georgia: Exploring mechanisms controlling distribution. Advisor: Meryll Alber.  
Athens, GA.
- 1997 – 1999 Professional Teaching Assistant. Zoology/Biology Departments, Duke  
University, Durham, NC.
- 1997 – 1999 Education Assessment Consultant (in Science, Technology, Engineering and  
Math programs). Duke Center for Teaching, Learning & Writing Office and the  
Office of Medical Education, Duke University. Durham, NC.
- 1997 – 1998 Research Technician. Duke University Wetland Center, Nicholas School of the  
Environment. Durham, NC
- 1993 – 1997 Duke University. Bachelor of Science, Diploma in Biology, Minor in French. Durham,  
NC.

## RESEARCH INTERESTS

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Estuarine community ecology, marine ecology, impacts of freshwater withdrawal on coastal ecosystems, responses of coastal ecosystems to climate change, human impacts in the coastal zone, the development and application of rapid detection tools and technologies, genomic/molecular approaches for coastal health early warning systems, watershed approaches (mountain to sea) to environmental management issues, and the integration of science into the development and practice of ocean, coastal and freshwater policy and management.

## SELECTED PUBLICATIONS

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- Blair, A., D. Sanger, D. White, A.F. Holland, L. Vandiver, C. Bowker, **S. White**. 2014. Quantifying and Simulating Stormwater Runoff in Watersheds. *Hydrological Processes*, 28(3): 559-569. DOI: 10.1002/hyp.9616.
- Blair, A., D. Sanger, D. White, A.F. Holland, L. Vandiver, C. Bowker, **S. White**. 2013. Exploring impacts of development and climate change on stormwater runoff. *Hydrological Processes*, 28(3): 559-569. DOI: 10.1002/hyp.9840.
- Schwacke, L.H., F.M. Gulland, **S. White**. 2012. Sentinel Species in Oceans and Human Health, In: Encyclopedia of Sustainability Science and Technology, Oceans and Human Health, Section Editor, J. Grimes. Springer, Heidelberg, Germany.
- Richards, C.L., **S.N. White**, M.A. McGuire, S.J. Franks, L.A. Donovan, and R. Mauricio. 2010. Plasticity, not adaptation to salt level, explains variation along a salinity gradient in a salt marsh perennial. *Estuaries and Coasts: Special Feature on Genetic Structure and Adaptation in Coastal Ecosystems*. DOI 10.1007/s12237-009-9186-4.
- White, S.N.** and M. Alber. 2009. Shifts in distribution of *Spartina alterniflora* and *S. cynosuroides* resulting from drought in the Altamaha River Estuary. *Wetlands* 29(1): 215-224.
- Sanger, D., A. Blair, G. DiDonato, T. Washburn, S. Jones, R. Chapman, D. Bergquist, G. Riekerk, E. Wirth, J. Stewart, D. White, L. Vandiver, **S. N. White**, D. Whitall. 2008. Integrative Ecological Assessments of NOAA's National Estuarine Research Reserves System (NERRS), Volume I: The Impacts of Coastal Development on the Ecology and Human Well-being of Tidal Creek Ecosystems. NOAA Technical Memorandum NOS NCCOS 82. NOAA Hollings Marine Laboratory, Charleston, SC.
- Cooksey, C., J. Hyland, E. Wirth, W.L. Balthis, M. Fulton, D. Whitall and **S. N. White**. 2008. Integrative Ecological Assessments of NOAA's National Estuarine Research Reserves System (NERRS), Volume II: Assessment of Ecological Condition and Stressor Impacts in Subtidal Waters of the North Carolina NERRS. NOAA Technical Memorandum NOS NCCOS 83. NOAA Center for Coastal Environmental Health and Biomolecular Research, Charleston, SC.
- Labal, M., R. Downs, S. Smith, S. Welsh, C. Neider, **S. N. White**, M. Richmond, and P. Baveye. 2008. Mapping invasive wetland plants in the Hudson River National Estuarine Research Reserve using Quickbird satellite imagery. *Remote Sensing of Environment* 112: 286-300.
- White, S.N.** 2007. Vital Ecosystems: Estuaries. In Hidden Depths: Atlas of the Oceans. Published in collaboration with The Smithsonian Institution and the National Oceanic and Atmospheric Administration. Harper Collins Publishing, New York.
- White, S.N.** 2007. National Estuarine Research Reserve System Highlight. In The National Coastal Condition Report III. U.S. Environmental Protection Agency, Office of Research and Development/Office of Water, Washington, D.C.
- White, S.N.**, (ed.) 2006. National Estuarine Research Reserve System Research and Monitoring Plan (2006-2011), Estuarine Reserves Division, Office of Ocean and Coastal Resource Management, NOAA. Silver Spring, MD.
- Owens, B. and **S.N. White**. 2005. NERRS 10th Anniversary Report on the System-wide Monitoring Program (SWMP) Data Applications: 1995-2005. Estuarine Reserves Division,

Office of Ocean and Coastal Resource Management, NOAA. Silver Spring, MD.  
McDougall, C., A. Ibanez, and **S.N. White**. Winter 2005/2006. Achieving Environmental Literacy with  
NOAA's Observing Systems Data. *Marine Technology Society*, Vol. 39(4).

### **SYNERGISTIC ACTIVITIES**

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NC Sediment Control Commission (appointed), Carolinas Integrated Sciences and Assessments (CISA) Advisory Board, UNC-TV Science Now Advisory Board, NOAA Southeastern and Caribbean Regional Team Resiliency Workgroup, National Integrated Drought Information System -CISA Drought Early Warning Pilot Workgroup, USGS-National Institutes of Water Resources Partnership Committee, Sea Grant Association Board Member, NC Space Grant Consortium Advisory Council.

### **PROFESSIONAL AFFILIATIONS**

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American Association for the Advancement of Science  
The Coastal Society, Board of Directors (2006-2012)  
Coastal and Estuarine Research Federation  
Southeastern Estuarine Research Society  
NC Water Resources Association  
University Council on Water Resources