

JAMES R. NELSON
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Professional Preparation:

University of California, Santa Cruz	Biology and History	B.A.	1979
University of California, San Diego, Scripps Institution of Oceanography	Oceanography	Ph.D.	1986
Skidaway Institute of Oceanography		Postdoc	1987-1988

Appointments:

Jun 2015–present	Retired, Emeritus, University of Georgia, Skidaway Institute
Jun 2013–Jun 2015	Associate Professor, University of Georgia, Dept. of Marine Sciences
Aug 1995-Jun 2013	Associate Professor, Skidaway Institute of Oceanography
1988-Aug 1995	Assistant Professor, Skidaway Institute of Oceanography
1987-Aug 1988	Post-doctoral Assistant, Skidaway Institute of Oceanography
1980-1986	Graduate Research Assistant, Scripps Institution of Oceanography, La Jolla, California, in the laboratory of Dr. Richard W. Eppley

Five Publications relating to SE regional observing and shelf processes:

Jahnke, R.A., J.R. Nelson, M.E. Richards, C.Y. Robertson, A.M.F. Rao, D.B. Jahnke. Benthic primary productivity on the mid-continental shelf off Georgia estimated from benthic flux measurements and high-resolution, continuous in situ PAR records (2008). *Journal of Geophysical Research, Oceans*, 113, C08027, doi:10.1029/2008JC004745.

Nelson, J.R. and R.H. Weisberg (2008). *In situ* observations and satellite remote sensing in SEACOOS: Program development and lessons learned. *Marine Technology Society Journal*, 42(3): 41-54.

Nelson, J.R. and C. Simoniello (2008). Building on the SEACOOS experience: Recommendations from the final SEACOOS workshop. *Marine Technology Society Journal*, 42(3): 81-85.

Aretxabaleta, A., J.R. Nelson, J.O. Blanton, H.E. Seim, F.E. Werner, J.M. Bane, R.H. Weisberg (2006). Cold event in the South Atlantic Bight during summer of 2003: Anomalous hydrographic and atmospheric conditions. *Journal of Geophysical Research, Oceans*, 111, C06007, doi: 10.1029/2005JC003105.

Nelson, J.R., J.E. Eckman, C.Y. Robertson, R.L. Marinelli and R.A. Jahnke, 1999. Benthic microalgal biomass and irradiance at the sea floor on the continental shelf of the South Atlantic Bight: Spatial and temporal variability and storm effects. *Continental Shelf Research* 19: 477-505.

Other Professional Activities:

Member: American Society of Limnology and Oceanography; American Geophysical Union; The Oceanography Society

Review Panels: NASA Ocean Biology and Biogeochemistry; NASA Interdisciplinary Science; NSF Biological Oceanography; NSF Office of Polar Programs, Antarctic Biology and Medicine; NASA North American Carbon Program; National Oceanographic Partnership Program; NSF Science and Technology Centers

Education – Teaching: University of Georgia, Summer short semester, 2015 & 2016 MARS 4500/4510, "Marine Field Methods" (undergraduate); Georgia Tech-Savannah campus, spring semester, 2010, "Sensors, Signals and Coastal Applications – co-instructor of graduate course GT-Sav/SkIO Joint Program in Coastal Geosciences and Engineering. Kennesaw State University "Biological Oceanography" (May, 2007, June, 2008) – one of four SkIO instructors of 10-day and 2-week components on SkIO campus (undergraduate).

Education -- Member, Advisory Board: Center for Ocean Science Education Excellence, Southeast (COSEE SE). Participation in COSEE SE activities: sponsored educator participation in research cruises (2003, 2004); research/educator workshops (June, 2004; Feb., 2005; June, 2006), Advisory Board Meetings (Mar. 2003 – Jan. 2014).

Coastal Ocean Observing Systems: South Atlantic Bight Synoptic Offshore Observational Network. Co-P.I. for real-time observing system at offshore Navy towers (1998-2008); Member SEACOOS Executive Committee (2001-2008); member SECOORA Board of Advisors (Sept. 2009 – May 2013; July 2014 – June 2017); SECOORA Executive Committee (Secretary) July 2014 – June 2106.

Regional and national COOS workshops: SEACOOS regional workshops (10 total between Mar. 2002 and Nov. 2007; *organization and WS reports*); SECOORA regional workshops (6 between 2004-2007); COTS/IOOS (*invited*, Nov., 2004); IOOS/Education workshop (*invited*, Mar., 2004); NSF ORION D&I (Mar., 2006); South Atlantic Fisheries Management Council "Ecosystem Tools & Model Development" (*invited*, 2006, 2008); CoML/IOOS "Biological Ocean Observing" (*invited*, Jan., 2008)

Graduate committees.

Timothy J. Pfeiffer. Louisiana State University, "An integrated algal production-seed clam nursery system using recirculating, computer controlled technology." Ph.D. 1998. (K. Rusch, advisor)

Merrilee Thorensen, University of Georgia. "Temporal and spatial variation in seston available to oysters and the contribution of benthic diatoms to their diet in the Duplin River, Georgia." Ph.D., 2004. (M. Alber, advisor).

Alfredo Aretxabaleta, University of North Carolina, Chapel Hill., "Baroclinic processes in coastal oceans: observations and modeling on Georges Bank and the South Atlantic Bight continental shelf". Ph.D. 2005, (F.E. Werner, advisor).

Liqing Jiang, University of Georgia, "Carbon dioxide in estuaries and the continental shelf of the Southeastern United States – Air-water fluxes and the underlying biogeochemical cycling." Ph.D. 2009 (W-J. Cai, advisor).

Recent Collaborators and Affiliations:

C. R. Edwards (SkIO), A. Gargett (Old Dominion U., retired), D.K. Savidge (SkIO), W.B. Savidge (SkIO), H.E. Seim (Univ. N. Carolina), G. Voulgaris (U. So. Carolina), F. Zhang (Georgia Inst. Tech.)