

John M. Bane

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(a) Professional Preparation

B.S.	Western Michigan University	1970	Physics and Mathematics
M.E.	Florida Atlantic University	1971	Ocean Engineering
Ph.D.	Florida State University	1975	Physical Oceanography

(b) Appointments

1987-present: Professor (Dept. Chair, 1995-2000; Dir. of Graduate Studies, 2004-2015)
1982-1986: Associate Professor
1976-1981: Assistant Professor
Department of Marine Sciences
University of North Carolina at Chapel Hill
(Jointly appointed in Depts. of Geology, Physics, and Environmental Sci. & Eng.)
1986, 1991 and 1997: Visiting Scholar
Scripps Institution of Oceanography
University of California at San Diego
1973-1974: Research Associate
Coastal Studies Institute
Louisiana State University, Baton Rouge
1971-1975: Ph.D. Candidate and Research Assistant
Department of Oceanography
Florida State University, Tallahassee

(c) Publications (10 of 100+)

- Bane, J. M., Y. H. Spitz, R. M. Letelier and W. T. Peterson (2007) Jet stream intraseasonal oscillations drive dominant ecosystem variations in Oregon's summertime coastal upwelling system. *Proc. Nat. Acad. Sci.*, 104(33), 13262–13267, doi:10.1073/pnas.070092610.
- Bane, J. M., M. D. Levine, R. M. Samelson, S. M. Haines, M. F. Meaux, N. Perlin, P. M. Kosro, and T. Boyd (2005) Atmospheric Forcing of the Oregon Coastal Ocean During the 2001 Upwelling Season, *J. Geophys. Res.*, 110, C10S02, doi:10.1029/2004JC-002653.
- Bane, J. M., L. P. Atkinson and D. A. Brooks (2001) Gulf Stream Physical Oceanography at the Charleston Bump: Deflection, Bimodality, Meanders and Upwelling. In: *Island in the Stream: Oceanography and Fisheries of the Charleston Bump*, edited by G. R. Sedberry, American Fisheries Soc., pp. 25-36.
- Bane, J. M., and K. E. Osgood (1989) Wintertime Air-Sea Interaction Processes across the Gulf Stream. *J. Geophys. Res.*, 94(C8), pp. 10,755-10,772.
- Chen, K., G. G. Gawarkiewicz, S. J. Lentz and J. M. Bane (2014) Diagnosing the Warming of the Northeastern U.S. Coastal Ocean in 2012: A linkage between the atmospheric jet

stream variability and ocean response. *J. Geophys. Res. Oceans*, 119, doi:10.1002/2013JC009393.

Nelson, J., R. He, J. C. Warner, J. Bane (2014), Air-sea interaction during strong winter extratropical storm, *Ocean Dynamics*, doi:10.1007/s10236-014-0745-2.

Aretxabaleta, A., J. Nelson, J. Blanton, H. Seim, F. Werner, J. Bane and R. Weisberg (2005) Cold Event in the South Atlantic Bight During Summer of 2003: Anomalous Hydrographic and Atmospheric Conditions. *J. Geophys. Res.*, 111, C06007, doi:10.1029/2005JC003105.

Li, Y., H. Xue and J. M. Bane (2002) Air-Sea Interactions During the Passage of a Winter Storm over the Gulf Stream: A 3D Coupled Atmosphere-Ocean Model Study. *J. Geophys. Res.*, 107(C11), 3200, doi:10.1029/2001JC001161.

Savidge, D. K., and J. M. Bane (2001) Wind and Gulf Stream Influences on Along-shelf Transport and Off-shelf Export at Cape Hatteras, North Carolina. *J. Geophys. Res.*, 106(C6), pp. 11,505-11,527.

Savidge, D. K., and J. M. Bane (1999a,b) Cyclogenesis in the Deep Ocean Beneath the Gulf Stream: 1. A Description. *J. Geophys. Res.*, 104(C8), pp. 18,111-18,126. Cyclogenesis in the Deep Ocean Beneath the Gulf Stream: 2. Dynamics. *J. Geophys. Res.*, 104(C8), pp. 18,127-18,140.

(d) Synergistic Activities

Principal Investigator, “Comprehensive Gulf Stream Ocean Energy Resource Assessment Using an Integrated Observing and Modeling Approach” Sponsored by North Carolina Renewable Ocean Energy Program (2013-2016)

Principal Scientific Advisor, Apex Offshore Wind LLC (2008-2014)

Director of Graduate Studies, Dept. of Marine Sciences, UNC (2004-2015)

SRG Member, BOEM Gulf of Mexico Physical Oceanography Programs (2007-present)

Charter Member and First Chairman, SECOM (Southeast Coastal Oceanography and Meteorology) (2007-2011)

(e) Collaborators and Other Affiliations

Collaborators Last Four Years (20): M. Andres (WHOI), L. Atkinson (ODU), K. Chen (WHOI), A. Davies (Bangor U), G. Duineveld (Royal Netherlands ISR), C. Edwards (SkIO), G. Gawarkiewicz (WHOI), R. He (NCSU), S. Lentz (WHOI), C. Lowcher (SIO), F. Mienis (Royal Netherlands ISR), M. Muglia (UNC-CSI), N. Putman (OSU), A. Quattrini (UNC-Wilmington), S. Ross (UNC-Wilmington), D. Savidge (SkIO), H. Seim (UNC), R. Todd (WHOI), J. Warner (USGS), T. van Weering (Free U of Amsterdam).

Graduate Advisors (2): Y. Hsueh (FSU – emeritus), R. McAllister (FAU – now deceased)

Major Professor for Graduate Students (17); Advisor for Post-Doctoral Scholars (4):

Chen-San Du (unk), Karen Tracey (URI), Mark E. Luther (USF), Carroll A. Hood (unk), Cynthia Bricker (NRL), Leonidas Cordova (Duke U.), Kenric Osgood (NOAA), John Schultz (unk), Lauren Wilson (RTI), Sankey Blanton (UNC), Melanie Meaux (NOAA), Elaine Monbureau (UNC), Wei Wang (unk), Dana K. Savidge (SkIO), May-Ling Becker (State of North Carolina), Raj Saha (unk)