

Victoria J. Coles

March, 2006

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Education

University of California, at San Diego	Physics -. Earth Science	BS	1991
University of Miami, Miami FL	Physical Oceanography	PhD.	1998
Rosenstiel School of Marine and Atmospheric Sciences, adv. Dr. D. B. Olson			
NASA Goddard Space Flight Center (Post-doc)			1998-2000
NASA Seasonal to Interannual Prediction Project, adv. Dr. M. M. Rienecker			

Appointments

2001- Assistant Research Professor, University of Maryland Center for Environmental Science, Horn Point Laboratory, Cambridge Maryland.

1999-01 Visiting Scientist, University of Maryland Center for Environmental Science, Horn Point Laboratory, Cambridge Maryland.

2000-01 Research Associate, University of Maryland, Baltimore County, Goddard Earth Science and Technology Center.

Research Interests

Observation and modeling of seasonal to climate scale variability in ocean circulation, biogeochemical tracer and ecosystem cycling and transport, and watermass ventilation.

Relevant Publications

Refereed Publications:

Coles, V. J. and R. R. Hood (2006) Modeling the impact of iron and phosphorus limitations on nitrogen fixation in the Atlantic Ocean. *Biogeosciences* (submitted).

Wilson, C., **V. J. Coles** (2005) Global climatological relationships between satellite biological and physical observations and upper ocean properties. *Journal of Geophysical Research*, doi:10.1029/2004JC002724.

Coles, V.J. , R. R. Hood, M. Pascual and D. G. Capone (2004) Modeling the Impact of *Trichodesmium* and Nitrogen Fixation in the Atlantic Ocean. *Journal of Geophysical Research*, **109**, C06006, doi:10.1029/2002JC001753.

Hood, R.R., **V. J. Coles**, and D. G. Capone (2004) Modeling the Distribution of *Trichodesmium* and Nitrogen Fixation in the Atlantic Ocean. *Journal of Geophysical Research*, **109**, C06007, doi:10.1029/2002JC001754.

Coles, V.J. , C. Wilson, R. R. Hood (2004) Remote Sensing of New Production Fuelled by Nitrogen Fixation. *Geophys. Res. Lett.*, **31**, L06301, doi: 10.1029/2003GL019018.

- Coles, V.J.** and M. M. Rienecker (2001) North Pacific subtropical-tropical gyre exchanges in the thermocline: Simulations with two isopycnal OGCM's. *Journal of Physical Oceanography*, **31**: 2590-2611.
- Coles, V. J.**, M. S. McCartney, D. B. Olson, and W. M. Smethie, Jr. (1996) Changes in Antarctic Bottom Water properties in the western South Atlantic in the late 1980's. *Journal of Geophysical Research*, **101**: 8957—8970.
- Griffa, A., E. P. Chassignet, **V. J. Coles**, and D. B. Olson (1996) Inertial gyre solutions from a primitive equation ocean model. *Journal of Marine Research*, **54**: 653—677.

Collaborators and Other Affiliations

Collaborators in Last 48 Months

N. Bates (BBSR)	R. Bleck (LANL)	C. Brown (NOAA)
D. G. Capone (USC)	E. Carpenter (Tiburón)	R. Fine (RSMAS)
M. Friedrichs (ODU)	R. Foster (UCSC)	J. Fuhrman (USC)
J. McCleave (U. Maine)	N. Mahowald (NCAR)	M. J. Miller (Japan Fisheries)
J. Montoya (Ga Tech)	R. Murtugudde (UMCP)	M. Pascual (U. Mich)
J. Ritchie (U Wash)	S. Sanudo-Wilhelmy (SUNY/MSRC)	
S. Seitzinger (Rutgers)	Y. Serra (U Ariz.)	D. Steinberg (VIMS)
A. Subramaniam (LDEO)	F. E. Werner (UNC)	J. Wiggert (ODU)
C. Wilson (NOAA/PFEL)	P. Yager (UGA)	

Graduate and Postdoctoral Advisors

Graduate Advisor: D. B. Olson

Post-graduate Advisor: M. Rienecker

Synergistic Activities

Student Committees: Sarah Cooley (UGA)

Courses

Physics of Marine and Estuarine Environments

Climate Impacts on Estuaries and Ecosystems

Outreach / Service

MPOWIR (Committee for Mentoring Physical Oceanography Women to Increase Retention)

Mid-Atlantic COSEE – invited speaker on Ocean-Atmosphere climate interactions

Participation in development of NASA supported High School ESE curriculum and video.