

CURRICULUM VITA

JAMES ROYER MILLER
DEPARTMENT OF MARINE AND COASTAL SCIENCES
COOK COLLEGE, RUTGERS UNIVERSITY
71 DUDLEY ROAD
NEW BRUNSWICK, NJ 08901

EDUCATION:

B.S. 1966 Massachusetts Institute of Technology (Mathematics)
M.A. 1968 University of Maryland (Applied Mathematics/Fluid Dynamics)
Ph.D. 1972 University of Maryland (Applied Mathematics/Fluid Dynamics)

PROFESSIONAL SOCIETIES:

American Geophysical Union	The Oceanography Society
American Littoral Society	Society of the Sigma Xi
American Meteorological Society	New Jersey Academy of Science

PROFESSIONAL EMPLOYMENT:

2005-Present Chair, Department of Marine and Coastal Sciences, Rutgers University
1992-Present Professor of Oceanography, Rutgers University, New Brunswick, NJ
1981-1992 Assoc. Professor of Oceanography, Rutgers University, New Brunswick, NJ
1975-1981 Asst. Professor of Oceanography, Rutgers University, New Brunswick, NJ
1973-1975 National Academy of Sciences--National Research Council, Postdoctoral Research
Associate, Goddard Institute for Space Studies, National Aeronautics and Space
Administration, New York, NY
1972-1973 Presidential Intern, National Center for Atmospheric Research, Boulder, CO

FELLOWSHIPS:

1977-78 (summers) NASA/ASEE Summer Faculty Fellowship
Goddard Space Flight Center, Greenbelt, MD
1993 (spring) Teaching Excellence Center Faculty Fellowship, Rutgers Univ.
1995 Visiting Fellow, Atmospheric and Oceanic Sciences Program, Princeton

RELATED PUBLICATIONS:

Ferrari, M.R., J.R. Miller, and G.L. Russell, 2007, Modeling changes in summer temperature of the Fraser River during the next century, *J. Hydrology*, 342, 336-346.

Russell, G.L., J.R. Miller, D. Rind, R.A. Ruedy, G.A. Schmidt, and S. Sheth, 2000, Comparison of model and observed regional temperature changes during the past 40 years, *J. Geophys. Res.*, 105, 14,891-14,898.

Ferrari, M.R., J.R. Miller, and G.L. Russell, 1999, Modeling the effect of wetlands, flooding, and irrigation on river flow: Application to the Aral Sea, *Water Resources Res.*, 35, 1869-1876.

Russell, G. L., J. R. Miller, and D. Rind, 1995, A coupled atmosphere-ocean model for transient climate change studies, *Atmosphere-Ocean*, 33, 683-730.

Miller, J. R., G. L. Russell, and G. Caliri, 1994, Continental scale river flow in climate models, *J. Climate*, 7, 914-928.

OTHER SIGNIFICANT PUBLICATIONS:

Miller, J. R., and G. L. Russell, 1997, Investigating the interactions among river flow, salinity, and sea ice using a global coupled atmosphere-ocean-ice model, *Annals of Glaciology*, 25, 121-126.

Van Blaricum, S., J. R. Miller, and G. L. Russell, 1995, High latitude river runoff in a doubled CO₂ climate, *Climatic Change*, 30, 7-26.

Kuhl, S. C., and J. R. Miller, 1992, Seasonal river runoff calculated from a global atmospheric model, *Water Resources Res.*, 28, 2029-2039.

Miller, J. R., and G. L. Russell, 1992, The impact of global warming on river runoff. *J. Geophys. Res.*, 97, 2757-2764.

Collaborators last 48 months and Other Affiliations:

- (i) Collaborators: At Rutgers (Yonghua Chen, Paul Falkowski, Michael Ferrari, Jennifer Francis, Susan Ford, Imtiaz Rangwala). Others: Felipe Aires, Vivian Gornitz, David Rind, Reto Ruedy, Gary Russell.
- (ii) Graduate and Post Doctoral Advisors:
Graduate: Ken Gage, NOAA, Boulder, CO
Post Doctoral: Peter Stone (MIT) and
Richard Somerville (Scripps Institution of Oceanography)
- (iii) Ph. D. Thesis advisor for:
Anthony J. Broccoli, 1997, Yonghua Chen, 2005, Michael Ferrari, 2008, Imtiaz Rangwala, 2008. Rutgers Univ., New Brunswick, NJ. Total number of graduate students advised: M.S. (12), Ph.D. (5)