

Dr. Mohan K. Ramamurthy

Position: Director, Unidata

Unidata is a national facility, funded primarily by the National Science Foundation, with a mission to provide the data services, tools, and cyberinfrastructure leadership that advance Earth system science, enhance educational opportunities, and broaden participation. Unidata serves users in thousands of institutions worldwide, and it has 25 staff members and an annual budget of approximately \$4.6M.

Contact Information

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Education

B.S., Physics	University of Poona, India
M.S., Physics	University of Poona, India
Ph.D., Meteorology	University of Oklahoma, Norman, OK

Honors: Fellow, American Meteorological Society

Professional Experience

Director, Unidata, UCAR Office of Programs, UCAR, 2003-present
Associate Professor, Department of Atmospheric Sciences, University of Illinois, 1994 – 2003
Assistant Professor, Department of Atmospheric Sciences, University of Illinois, 1989 - 1994
Visiting Assistant Professor, Department of Atmospheric Sciences, University of Illinois, 1987 - 1989
Post-doctoral Research Assistant, Florida State University, Tallahassee, 1986 – 1987

Relevant Professional Activities

Member, UNIDATA Users Committee, 1989-1991
Chairperson, UNIDATA Users Committee, 1991-1998
Member, AMS Committee on Weather Analysis and Forecasting, 1992-1995
Member, AMS Committee on Intelligent Transportation Systems, 1994-1998
Member, PAGE Executive Board Member, 1997-2000
Member, Unidata Policy Committee, 1999-2002
Member, AMS Board of Higher Education, 2000-2004
Chairperson, DLESE Services Committee, 2000-2003
Associate Editor, Monthly Weather Review, 2001-2002
Member, UCAR University Relations Committee, 2001-2003
Chairperson, AMS Board of Higher Education, 2002-2003
Member, JESSE Editorial Board, 2001-2003
Member, NSF ATM Steering Committee for Cyberinfrastructure for Research and Education, 2002-2004
Vice-chair, ESIP Federation Products and Services Committee, 2004-2007
Member, THORPEX Data Policy and Management Working Group, 2005-2009
Member, NACP Data System Task Force, 2005-present
Member, NRC Committee on Archiving Environmental and Geospatial Data at NOAA, 2006-2008
Chair, AMS Ad-hoc Committee on Data Stewardship, 2008-present
Member, AGU ESSI Executive Committee, 2008-present

Most relevant publications

Ramamurthy, M. K., 2005: Unidata's Blueprint for 2008. Bulletin of the American Meteorological Society: Vol. 86, No. 2, 179–180

Droegemeier, K. K. and 20 authors, 2005: Service-oriented environments for dynamically interacting with mesoscale weather. *Computing in Science and Engineering*, 7, No. 6, 12-29.

Kelleher, K., plus 14 authors, 2005: Project CRAFT: Technical Aspects of a Real-time delivery system for NEXRAD Level II data via the Internet. *Bull. Amer. Meteor. Soc.*, **88**, 1045-1057, 2007.

Ramamurthy, M. K., 2006: A new generation of cyberinfrastructure and data services for Earth system science education and research. *Advances in Geosciences*.

Plale, B., D. Gannon, J. Brotzge, K. Droegemeier, J. Kurose, D. McLaughlin, R. Wilhelmson, S. Graves, M. Ramamurthy, R.D. Clark, S. Yalda, D.A. Reed, E. Joseph, V. Chandrasekar, 2006: CASA and LEAD: Adaptive Cyberinfrastructure for Real-Time Multiscale Weather Forecasting, *Computer special issue on System-Level Science, IEEE Computer*, **39**, No. 11, pp. 56-63.

Five other publications

Rauber, R. M., M. Yang, M. K. Ramamurthy, and B. F. Jewett, 2000: Origin, evolution, and fine scale structure of the St. Valentine's Day gravity wave observed during STORM-FEST. Part I: Origin and maintenance. *Mon. Wea. Rev.*, **129**, 198-217.

Jewett, B. J., R. M. Ramamurthy, and R. M. Rauber, 2003: Origin, maintenance and fine scale structure of the St. Valentine's Day gravity wave observed during STORM-FEST. Part III: MM5 modeling study of gravity wave genesis and evolution. *Mon. Wea. Rev.*, **131**, 617-633.

Yang, M., R. M. Rauber and M. K. Ramamurthy 2000: Origin, evolution, and fine scale structure of the St. Valentine's Day gravity wave observed during STORM-FEST. Part II: Fine scale structure. *Mon. Wea. Rev.* **129**, 218-236.

Grim, J. A., R. M. Rauber, M. K. Ramamurthy, B. J. Jewett and M. Han, 2005: High-resolution observations of the trowal and warm frontal regions of two continental winter cyclones. *Mon. Wea. Rev.*, 135, 1647-1670.

Han, M., R. M. Rauber, M. K. Ramamurthy, B. J. Jewett, and J. Grim, 2005: Mesoscale dynamics of the trowal and warm frontal regions of two continental winter cyclones. *Mon. Wea. Rev.*, 135, 1629-1646.

Ph. D. advisor: Prof. Fred Carr, University of Oklahoma, Norman, OK

Post-doctoral supervisor: Prof. Peter S. Ray, Florida State University, Tallahassee, FL

Graduate students supervised or co-supervised:

<u>Name</u>	<u>Degree</u>	<u>Status</u>
Michael Shields	M Sc.	National Weather Service
Brian Collins	M. Sc.	Private Industry
Meng Li	M. Sc.	Private Industry
David Christensen	M. Sc.	Private Industry
Naresh Malhotra	M.Sc.	Private Industry
Liho Chen	M. Sc.	National Taiwan University
Qizhou Guo	M. Sc.	Private Industry
Taiyi Xu	Ph. D (ABD)	Climate Diagnostics Center, NOAA
Guangming Zhou	Ph.D	Private Industry
Geoffrey Manikin	M. Sc.	National Centers for Environmental Prediction/EMC
Tom Grzelak	M.Sc.	Rutgers University
Steve Hall	M.Sc.	Private Industry
Muqun Yang	Ph.D., Post Doc	NCSA, Univ. of Illinois
Jingjun Shu	M. Sc.	Private Industry
Daniel Bramer	M. Sc.	University of Illinois
Scott Olthoff	M.Sc.	Private Industry
Noah Nigg	M. Sc.	Private Industry
Mei Han	Ph. D.	University of Maryland, Baltimore County
Bo Cui	Ph. D.	National Centers for Environmental Prediction