

JAMES L. KINTER III

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EDUCATION:

- 1984 Ph.D. (Geophysical Fluid Dynamics) Princeton University.. Dissertation: *Barotropic Studies of Stationary, Extratropical Anomalies in the Troposphere*. (Advisor: K. Miyakoda)
1981 M.A. (Geophysical Fluid Dynamics) Princeton University.
1979 A.B. (Mathematics) Princeton University.

ACADEMIC AND PROFESSIONAL EXPERIENCE:

- 2005-present Director and Senior Research Scientist – COLA, IGES, Calverton, MD.
Directs all COLA research and administrative activities. Conducts original research on climate predictability.
2002-present Associate Professor of Climate Dynamics – George Mason Univ., Fairfax, VA
1993-2004 Executive Director and Associate Research Scientist – COLA, IGES, Calverton, MD.
1987-1993 Assistant Research Scientist and Assistant Director - COLA, Univ. of Maryland, College Park, MD.
1984-1987 Assistant Professor - Dept. of Meteorology, Univ. of Maryland, College Park, MD.
1983-1984 National Research Council Associate - NASA Goddard Space Flight Center (Advisor: J. Shukla).

ORGANIZATIONAL, PROFESSIONAL AND COMMUNITY SERVICE:

- NSF Advisory Committee and Working Group on Strategic Planning for the Geosciences (member, 2005-present)
NSF Advisory Committee on Computing for the Atmospheric Sciences (co-chair, 2007-present)
NSF Advisory Committee for Cyberinfrastructure and Data Task Group (member, 2006-present)
NSF Office of Cyberinfrastructure Track I review panel (member, 2007)
CLIVAR International Climate of the 20th Century project (co-chair; 2000–present)
NOAA Climate Test Bed Scientific Advisory Board (2005–present)
NOAA Applied Research Centers Directors Council (member, 2001-present; chair, 2006-present)
Catalan Center for Climate Sciences Scientific Advisory Committee (member, 2006-present)
NSF TeraGrid Scientific Advisory Committee (chair, 2007-present)
ESMF Scientific Advisory Board (member, 2007-present)
CCSP Climate Simulation Laboratory Advisory Panel (member, 1995 - present; chair, 1999 – 2005)
NCAR Scientific Computing Division Advisory Panel (member, 1990-present)
Ad Hoc Committee on a Petascale Collaboratory for the Geosciences (member; 2004 – 2005)
Ad Hoc Committee on Cyberinfrastructure for the Atmospheric Sciences (chair, 2002 – 2004)
USGCRP Study Group on the Water Cycle (member, 1999 – 2001)
Workshop co-organizer: GO-ESSP (Livermore, 2006); Correcting Tropical Biases (NCAR, 2006; COLA, 2005); Climate Diagnostics & Prediction (Fairfax, 2002); Dynamics & Statistics of Secular Climate (Trieste, 1995); 1988 U.S. Drought (College Park, 1990)
NSF Center for Multiscale Modeling of Atmospheric Processes Review Committee (chair, 2007)
NOAA Climate Observations and Analysis Review (member, 2007)
NOAA JISAO Cooperative Institute Review Committee (chair, 2005)
NSF Extensible Terascale Facility and Core Supercomputer Centers Review Panel (member, 2006)
NOAA Experimental Climate Prediction Center Review Committee (chair, 2005)
NSF, Atmospheric Sciences Committee of Visitors (member, 1998)
Reviewer for *JCAM*, *JMSJ*, *J. Clim.*, *Clim. Dynamics*, *IBM Journal of R&D*, *Swedish Res. Council*, EGU, NSF, NASA, NOAA, AID

GRADUATE COURSES TAUGHT:

Introduction to Dynamic Meteor., Dynamic Meteor. I, Atmosphere-Biosphere Interaction, Global Habitability

DOCTORAL AND MASTER'S COMMITTEES:

V. M. Thompson, MS 1987; P. A. Dirmeyer, MS 1988; M. Ji, PhD 1989; P. Frederickson, MS 1989; Y. Hou, PhD 1990; B. P. Kirtman, PhD 1992; O. Reale, PhD 1995; A. Bamzai, PhD 1997; L. Feudale, PhD 2006; J. Nattala, PhD (in progress)

SELECTED PUBLICATIONS:

- Rodó, X., A. Dobson, M. Pascual, F. Doblas-Reyes, A. Gershunov, D. Stone, F. Giorgi, P. Hudson, J. Kinter III, M. Rodriguez-Arias, & N. Stenseth, 2007: Climate change and infectious disease: Meeting needs for better prediction. *Nature* (submitted).
Cash, B. A., J. L. Kinter III & X. Rodó, 2007c: Links between tropical Pacific SST and the cholera incidence in Bangladesh: role of the western and central extratropical Pacific. *J. Climate* (submitted).
Cash, B. A., J. L. Kinter III & X. Rodó, 2007b: Links between tropical Pacific SST and the cholera incidence in Bangladesh: role of the eastern and central tropical Pacific. *J. Climate* (submitted).

- Jin, E. K., J. L. Kinter III & B. Wang, 2007b: Current status of ENSO prediction skill in coupled ocean-atmosphere models. *J. Climate* (submitted).
- Jin, E. K., J. L. Kinter III & J. Shukla, 2007a: Characteristics of tropical Pacific SST predictability in coupled GCM forecasts using the NCEP CFS. *J. Climate* (submitted).
- Cash, B., X. Rodo, J. L. Kinter III, & M. J. Fennessy, 2007a: Differing estimates of observed Bangladesh summer rainfall. *J. Hydrometeor.* (submitted).
- Misra, V., L. Marx, J. L. Kinter III, B. P. Kirtman, Z. Guo, D. Min, M. J. Fennessy, P. A. Dirmeyer, R. A. Kallummal, & D. M. Straus, 2007: Validating and understanding the ENSO simulation in two coupled climate models. *Tellus*, **59A**, 292-308.
- Shukla, J., T. DelSole, M. Fennessy, J. L. Kinter III, & D. Paolino, 2006: Climate model fidelity and projections of climate change. *Geophys. Res. Lett.*, **33**, doi:10.1029/2005GL025579.
- Shukla, J. & J. L. Kinter III, 2005: Predictability of seasonal climate variations: A pedagogical review. In *Predictability of Weather and Climate*, T. Palmer and R. Hagedorn, eds. (Cambridge University Press, Cambridge, UK, 702 pp), 306-341.
- Wu, R., J. L. Kinter III & B. P. Kirtman, 2005: Discrepancy of interdecadal changes in the Asian region between the NCEP-NCAR reanalysis and observations. *J. Climate*, **18**, 3048-3067.
- Hu, Z.-Z., R. Wu, J. L. Kinter III, & S. Yang, 2005: Connection of summer rainfall variations in south and east Asia: role of El Niño Southern Oscillation. *Int. J. Climatology*, **25**, 1279-1289.
- Yang, S., K.-M. Lau, S.-H. Yoo, J. L. Kinter III, K. Miyakoda & C.-H. Ho, 2004: Upstream subtropical signals preceding the Asian summer monsoon circulation. *J. Climate*, **17**, 4213-4229.
- Kinter III, J. L., M. J. Fennessy, V. Krishnamurthy & L. Marx, 2004: An evaluation of the apparent interdecadal shift in the tropical divergent circulation in the NCEP-NCAR reanalysis. *J. Climate*, **17**, 349-361.
- Miyakoda, K., J. L. Kinter III & S. Yang, 2003: The role of ENSO in the south Asian monsoon and pre-monsoon signals over the Tibetan Plateau. *J. Meteor. Soc. Japan*, **81**, 1015-1039.
- Huang, B. & J. L. Kinter III, 2002: Interannual variability in the tropical Indian Ocean. *J. Geophys. Res.*, **107**, doi:10.1029/2001JC001278.
- Krishnamurthy, V. & J. L. Kinter III, 2003: The Indian monsoon and its relationship to global climate variability. In *Global Climate: Current Research and Uncertainties in the Climate System*, X. Rodó and F. Comín, eds. (Springer-Verlag, Berlin, 286 pp), 186-236.
- Huang, B., J. L. Kinter III, & P. Schopf, 2002: An ocean data assimilation system with intermittent analyses and continuous model error correction. *Advances in Atmos. Sci.*, **19**, 965-992.
- Kinter III, J. L., K. Miyakoda & S. Yang, 2002: Recent changes in the connection from the Asian monsoon to ENSO. *J. Climate*, **15**, 1203-1215.
- Shukla, J., D. A. Paolino, D. M. Straus, D. G. DeWitt, M. J. Fennessy, J. L. Kinter III, L. Marx & R. Mo, 2000: Dynamical seasonal predictions with the COLA atmospheric model. *Quart. J. Roy. Meteor. Soc.*, **126**, 2265-2292.
- Shukla, J., J. L. Kinter III, E. K. Schneider, & D. M. Straus, 1999: Analysis and Modeling of the Climate System: Modeling. *Climate Change: An Integrated Perspective*. Open Univ. (414 pp).
- Schneider, E. K., B. Huang, Z. Zhu, D. G. DeWitt, J. L. Kinter III, B. Kirtman, & J. Shukla, 1999: Ocean data assimilation, initialization, and predictions of ENSO with a coupled GCM. *Mon. Wea. Rev.*, **127**, 1187-1207.
- Doty, B. E. & J. L. Kinter III, 1995: Geophysical data analysis and visualization using GrADS. *Visualization Techniques in Space and Atmospheric Sciences*, eds. E. P. Szuszczewicz and J. H. Bredekamp (NASA, Washington, DC), 209-219.
- Schneider, E. K. & J. L. Kinter III, 1994: An examination of internally generated variability in long climate simulations. *Clim. Dyn.*, **10**, 181-204
- Paolino, D. A., Q. Yang, B. Doty, J. L. Kinter III, J. Shukla, & D. Straus, 1994: A pilot reanalysis project at COLA. *Bull. Amer. Meteor. Soc.*, **76**, 697-710.
- Fennessy, M. J., J. L. Kinter III, B. Kirtman, L. Marx, S. Nigam, E. Schneider, J. Shukla, D. Straus, A. Vernekar, Y. Xue & J. Zhou, 1994: The simulated Indian monsoon: A GCM sensitivity study. *J. Climate*, **7**, 33-43.
- Xue, Y., P. J. Sellers, J. L. Kinter III & J. Shukla, 1991: A simplified biosphere model for global climate studies. *J. Climate*, **4**, 345-364.
- Kinter III, J.L. & J. Shukla, 1990: The global hydrologic and energy cycles: suggestions for studies in the Pre-GEWEX period. *Bull. Amer. Meteor. Soc.*, **71**, 181-189.
- Kinter III, J. L., J. Shukla, L. Marx & E. K. Schneider, 1988: A simulation of the winter and summer circulations with the NMC global spectral model. *J. Atmos. Sci.*, **45**, 2486-2522.

COLLABORATORS (other than COLA scientists; last 48 months)

L. Bengtsson (U Reading, UK), M. Bouma (London Sch Medi UK), F. Doblas-Reyes (ECMWF, UK), A. Dobson (Princeton U), L. Feudale (ICTP, Italy), C. Folland (Hadley Centre, UK), A. Gershunov (Scripps Inst. Oceanogr.), F. Giorgi (ICTP, Italy), C.-H. Ho (Seoul Nat U, South Korea), P. Hudson (Penn State U), K. Jin (George Mason U), M. Kafatos (George Mason U), K.-M. Lau (NASA GSFC), K. Miyakoda (Princeton U), M. Pascual (U Michigan), X. Rodo (U Barcelona, Spain), M.-A. Rodriguez-Arias (U Barcelona, Spain), N. Stenseth (U Oslo, Norway), D. Stone (U Oxford, UK), S. Yang (NOAA NCEP), S.-H. Yoo (Seoul Nat U)