

## JAMES L. KINTER III

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### CONTACT INFORMATION:

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### EDUCATION AND TRAINING:

Princeton University	Princeton, NJ	Mathematics	A.B.	1979
Princeton University	Princeton, NJ	Geophysical Fluid Dynamics	M.A.	1981
Princeton University	Princeton, NJ	Geophysical Fluid Dynamics	Ph.D.	1984
NASA Goddard	Greenbelt, MD	Climate Dynamics	NRC post-doc	1983-1984

### RESEARCH AND PROFESSIONAL EXPERIENCE

2017-present Chair, Dept. of Atmos., Oceanic & Earth Sci. – George Mason Univ., Fairfax, VA  
2011-present Director, Center for Ocean-Land-Atmosphere Studies (COLA) – Fairfax, VA  
2011-present Professor of Climate Dynamics – George Mason Univ., Fairfax, VA  
2005-2014 Director and Senior Research Scientist – COLA, IGES, Calverton, MD  
2002-2011 Assoc. Professor of Climate Dynamics – George Mason Univ., Fairfax, VA  
1993-2004 Executive Director & Assoc. Research Scientist – COLA, IGES, Calverton, MD  
1987-1993 Asst. Research Scientist, Asst. Director – COLA, Univ. MD, College Park, MD  
1984-1987 Asst. Professor – Dept. of Meteorology, Univ. of Maryland, College Park, MD

### PRODUCTS:

107 peer-reviewed articles; WoS citations: 4551 (*Google Scholar*: 7144); *h*-index: 37 (GS: 44)

#### Recent products:

1. Monsoon: Singh, B., et al., 2018: Indian Summer Monsoon Variability Forecasts in the NMME. *Climate Dyn.*, doi: 10.1007/s0038; Zhou, T., et al., 2016: GMMIP contribution to CMIP6: Global Monsoons MIP. *Geosci. Model Dev.*, 9, doi: 10.5194/gmd-9-3589-2016.
2. Seasonal: Bombardi, R., et al., 2018: Seasonal predictability of summer rainfall over South America. *J. Climate*, doi:10.1175/JCLI-D-18-0191.1; Zhu, J., et al., 2015: The Role of Off-Equatorial Surface Temperature Anomalies in the 2014 El Nino Prediction. *Nature Scientific Reports*, 6, doi:10.1038/srep19677.
3. Project Athena: Kinter III, J. L., et al., 2013: Revolutionizing Climate Modeling – Project Athena: A Multi-Institutional, International Collaboration. *Bull. Amer. Meteor. Soc.*, 94, 231-245. See also Dirmeyer, P. et al. 2012 (*Climate Dyn.*, 39, 399-418); Jung et al. 2011 (*J. Climate*, 25, 3155-3172); Manganello et al. 2012 (*J. Climate*, 25, 3867-3893); Palipane et al. 2013 (*Geophys. Res. Lett.* 40, 4893–4899); Satoh et al. (*Climate Dyn.*, 39, 2185-2206).
4. Climate Change: Kumar, S., and Co-authors, 2016: 20<sup>th</sup> C temp. trends in CMIP3, CMIP5 and CESM-LE: Uncertainties, Differences and Potential Sources. *J. Geophys. Res.*, 121, 9561-9575.
5. Tropics: Shukla, R. P., et al., 2018: Sub-seasonal Prediction of Significant Wave Heights over the Western Pacific and Indian Oceans, Part II: The impact of ENSO and MJO. *Ocean Modeling*, 123, 1-15. Manganello, J.V., et al., 2017: Seasonal Forecasts of North Atlantic Tropical Cyclone Activity in the NMME. *Climate Dyn.*, doi: 10.1007/s00382-017-3670-5.

#### Other significant products:

1. Bombardi R. J., et al., 2017: Sub-seasonal Predictability of the Onset and Demise of the Rainy Season over Monsoonal Regions. *Front. Earth Sci.* 5:14. doi: 10.3389/feart.2017.00014
2. Kumar, S., et al., 2016: 20<sup>th</sup> century temperature trends in CMIP3, CMIP5 and CESM-LE: Spatial-temporal Uncertainties, Differences and Their Potential Sources. *J. Geophys. Res.*, 121, 9561-9575.

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3. Kirtman, B. P., et al., 2012: Impact of Ocean Model Resolution on CCSM Climate Simulations. *J. Climate*, 39, 303-328.
4. Navarra, A., et al., 2010: Crucial Experiments in Climate Science. *Bull. Amer. Meteor. Soc.*, 91, 343-352.
5. Shukla, J., et al., 2006: Climate model fidelity and projections of climate change. *Geophys. Res. Lett.*, 33, doi:10.1029/2005GL025579.

### SYNERGISTIC ACTIVITIES:

1. American Meteorological Society Council (elected; 2015-2019)
2. International CLIVAR Climate of the 20<sup>th</sup> Century Project (co-chair, 1998-present)
3. National Academy of Sciences, National Research Council: Review Comm. on USGCRP Climate Science Special Report (2016-2017); Review Comm. on National Science Foundation Atmospheric and Geospace Sciences Draft Goals and Objectives (2013-2014); Study Comm. *A National Strategy for Advancing Climate Modeling* (2010–2012)
4. UCAR: National Center for Atmospheric Research (NCAR) External Advisory Panel (chair, 2017-present) and Blue Ribbon Panel (member, 2014); NCAR Computational and Information Systems Lab. High-Performance Computing Advisory Panel (member, 1990-2014); Community Adv. Comm. for NCEP (co-chair, 2011–2018); Community Earth System Model Advisory Board (member, 2007-present)
5. NOAA: NOAA Community Modeling advisory Committee (2018-present); Modeling, Analysis, Prediction and Projections (MAPP) Climate Model Development Task Force (member, 2014-present); MAPP Climate Prediction Task Force (member, 2013-2015); MAPP CMIP5 Task Force (chair, 2011-2014); Climate Test Bed Scientific Advisory Board (2005–2015)

### COLLABORATORS AND OTHER AFFILIATIONS IN PAST 48 MONTHS:

#### Collaborators and co-editors

R. Bombardi (Texas A&M), F. Carr (U Oklahoma), B. Cash (COLA), W. Collins (UC Berkeley, LBNL), T. DelSole (GMU), L. Di (GMU), P. Dirmeyer (GMU), F. Doblas-Reyes (ECMWF, UK), A. Dobson (Princeton U), B. Doty (COLA), X. Feng (TAMU), C. Folland (Hadley Centre, UK), C. Frederiksen (BOM, Australia), A. Gershunov (Scripps Inst. Oceanography), S. Grainger (BOM, Australia), B. Gross (NOAA), C.-H. Ho (Seoul National U, South Korea), Z.-Z. Hu (NCEP), B. Huang (GMU), K. Jin (KIAPS, South Korea), I.-S. Kang (Seoul National U, South Korea), B. Kirtman (U Miami), S. Klein (LLNL), V. Krishnamurthy (COLA), A. Kumar (NOAA NCEP), S. Kumar (NOAA), S.-J. Lin (NOAA), R. Loft (NCAR), M. Martin (ECMWF, UK), V. Misra (FSU), K. Miyakoda (Princeton U), J. Nattala (GMU), A. Navarra (CMCC, Italy), T. O'Brien (LBNL), T. Palmer (U. Oxford, UK), M. Pascual (U Michigan), S. Penny (NOAA), W. Putman (NASA Goddard), K. Raeder (NCAR), D. Randall (Colorado State U), X. Rodo (U Barcelona, Spain), M.-A. Rodriguez-Arias (U Barcelona, Spain), M. Satoh (U. Tokyo, Japan), E. Schneider (GMU), R. Shukla (GMU), B. Singh (Texas A&M U), J. Slingo (Met Office, UK), D. Stone (LLBL), D. Straus (GMU), H. Tomita (JAMSTEC, Japan), J. Tribbia (NCAR), R. Wu (Hong Kong U, China), Z. Wu (FSU), S. Yang (Sun-Yat Sen U, China), X. Yang (NOAA), K. Yelick (UC Berkeley), S.-H. Yoo (SNU, South Korea)

#### Graduate advisors and postdoctoral sponsors

K. Miyakoda (Princeton U; deceased), J. Shukla (George Mason U)

#### Thesis advisor and post-graduate-scholar sponsor (total 13):

*Ph.D. students* – J. Nattala (George Mason U) 2013; B. Singh (George Mason U) 2017  
*Ph.D. committees* – M. Ji (U. Maryland College Park) 1989; Y.-T. Hou (UMCP) 1990; B. Kirtman (UMCP) 1992; O. Reale (UMCP) 1995; A. Bamzai (GMU) 1997; L. Feudale (GMU) 2006; L. Krishnamurthy (GMU) 2012; E. Stofferahn (GMU; 2015); O. Garuba (GMU; 2015); Z. Wang (GMU; 2018); Gaal (GMU; ongoing)