

JAMES L. KINTER III

CONTACT INFORMATION:

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PROFESSIONAL PREPARATION:

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

APPOINTMENTS:

2022-present Director, Virginia Climate Center (VCC) – 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
2017-2021 Chair, Dept. of Atmos., Ocean. & Earth Sci. – George Mason Univ., Fairfax, VA
2005-2014 Director and Senior Research Scientist – COLA, IGES, Calverton, MD
1996-2011 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:

123 peer-reviewed articles; *Google Scholar* citations: 10435; *h-index*: 51

Recent products (by research topic):

1. *Global Change Impacts*: Coelho, et al., 2022: Multiscale and multi-event evaluation of short-range, real-time flood forecasting in large metropolitan areas. *J. Hydrology*, 128212. Coelho, et al., 2022: Potential Impacts of Future Extreme Precipitation Changes on Flood Engineering Design Across the Contiguous U.S. *Water Resources Res.*, 58, doi: 10.1029/2021WR031432.
2. *Monsoon*: Turner, A. G., et al., 2021: Overview of the Global Monsoons Model Intercomparison Project (GMMIP): Progress and Challenges. In *The Multiscale Global Monsoon System* (World Scientific, 420 pp), 355-365. Singh, B., et al., 2018: Indian Summer Monsoon Variability Forecasts in the NMME, *Climate Dyn.*, doi: 10.1007/s0038.
3. *Atmosphere - Land Surface Coupling*: Gaal, R. and J. L. Kinter 2021: Soil Moisture Influence on the Incidence of Summer Mesoscale Convective Systems in the U.S. Great Plains. *Mon. Wea. Rev.*, 149, 3981-3994; Halder, S., et al., 2018: Impact of land surface initialization and land-atmosphere coupling on the prediction of the Indian summer monsoon with the CFSv2. *Frontiers Env. Sci.*, 5, 92. doi: 10.3389/fenvs2017.00092; Bombardi, R., et al., 2016: The Heated Condensation Framework as a Convective Trigger in the NCEP Climate Forecast System version 2. *J. Adv. Mod. Earth Sys.*, doi: 10.1002/2016MS000668.
4. *Tropics*: Singh, B. and J. L. Kinter, 2020: Tracking Trop. Intraseasonal Convective Anomalies: Part 1: Seasonality of TISO. *J. Geophys. Res.* doi:10.1029/2019JD030873
5. *High Resolution Modeling*: Manganello, J. and J. L. Kinter, 2021: Modulation of Mid-Atlantic Tropical Cyclone Landfalls by the Madden-Julian Oscillation. *Wea. Climate Extremes*, 34, 100387; Manganello J. V., et al., 2019: Assessment of Climatology and Predictability of Mid-Atlantic Tropical Cyclone Landfalls in High-Atmospheric-Resolution Seasonal Prediction System. *Mon. Wea. Rev.*, 147, 2901-2917.

Other significant products:

1. Duan, Y., S. Kumar, & J. L. Kinter, 2021: Evaluation of long-term temperature trend and variability in CMIP6 multimodel ensemble. *Geophys. Res. Lett.*, 48, e2021GL093227. <https://doi.org/10.1029/2021GL093227>

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2. Bombardi R. J., et al., 2019: A Global Gridded Dataset of the Characteristics of the Rainy and Dry Seasons. *Bull. Amer. Meteor. Soc.*, 100, 1315-1328.
3. Kinter, J. L., et al., 2013: Revolutionizing Climate Modeling – Project Athena: A Multi-Institutional, International Collaboration, *Bull. Amer. Meteor. Soc.*, 94, 231-245.
4. Kirtman, B. P., et al., 2012: Impact of Ocean Model Resolution on CCSM Climate Simulations. *J. Climate*, 39, 303-328.
5. Navarra, A., et al., 2010: Crucial Experiments in Climate Science. *Bull. Amer. Meteor. Soc.*, 91, 343-352.

AWARDS:

1. Fellow, American Meteorological Society (2011)

SYNERGISTIC ACTIVITIES:

1. NOAA: Virginia Climate Center (2022-present); NOAA Priorities in Weather Research Task Force (2021); NOAA Community Modeling review Committee (2018-2020); MAPP Climate Model Development Task Force (member, 2014-2017); MAPP Climate Prediction Task Force (member, 2013-2015); MAPP CMIP5 Task Force (chair, 2011-2014); UCAR Community Advisory Committee for NCEP (2011-2018); Climate Test Bed Scientific Advisory Board (2005–2015)
2. UCAR: National Center for Atmospheric Research (NCAR) External Advisory Panel (chair, 2017-present); Community Earth System Model Advisory Board (member, 2007-2020); NCAR Computational and Information Systems Lab. High-Performance Computing Advisory Panel (member, 1990-2014); Community Adv. Comm. for NCEP (co-chair, 2011–2018)
3. American Meteorological Society Council (elected; 2015-2019)
4. Nat. Academy of Sciences, Nat. Research Council: Digital Twin Panel (2022-present); 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)
5. International CLIVAR Climate of the 20th Century Project (co-chair, 1998-present)

COLLABORATORS AND OTHER AFFILIATIONS IN PAST 48 MONTHS:

Collaborators and co-editors

J. Adams (NASA), A. Adcroft (NOAA), H. Annamalai (U Hawaii), V. Balaji (Princeton U), M. Balmaseda (ECMWF, UK), C. Bitz (U Washington), R. Bombardi (Texas A&M), C. Bretherton (Jupiter), P. Bubosh (GMU), F. Carr (U Oklahoma), B. Cash (COLA), G. Coelho (Furman U), T. DelSole (GMU), L. Di (GMU), P. Dirmeyer (GMU), I. Dollan (GMU), Y. Duan (Auburn U), T. Ezer (Old Dominion U), X. Feng (TAMU), C. Ferreira (GMU), R. Gaal (GMU), B. Huang (GMU), J. Johnston (GMU), B. Kirtman (U Miami), L. Krishnamurthy (NOAA), V. Krishnamurthy (GMU), S. Kumar (Auburn U), S.-J. Lin (NOAA), E. Maibach (GMU), V. Maggioni (GMU), J. Manganello (GMU), L. Marx (GMU), S. Mohan (U Hawaii), A. Navarra (CMCC, Italy), R. Neale (NCAR), L. Ortiz (GMU), Z. Pan (St. Louis U), T. Palmer (U Oxford, UK), K. Pegion (GMU), C.-S. Shin (GMU), J. Shukla (GMU), R. Shukla (NOAA), B. Singh (Columbia U), D. Straus (GMU), E. Swenson (GMU), V. Tallapragada (NOAA), A. Tawfik (Voith Digital), L. Trenary (GMU), A. Turner (U Reading, UK), J. Whitaker (NOAA), J. Whitehead (Old Dominion U), X. Yang (NOAA), T. Zhang (SYSU, China), T. Zhou (CAS-IAP, China), J. Zhu (NOAA)

Graduate advisors and postdoctoral sponsors

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

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

Ph.D. students – J. Nattala (GMU) 2013; B. Singh (GMU) 2017; R. Gaal (GMU) 2023; A. Reed (GMU; ongoing)

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); Coelho (GMU, 2022); Dollan (GMU; 2023); R. Sharif (GMU; ongoing)