

JAMES LUCAS KINTER III

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Dr. Kinter is Director of the Center for Ocean-Land-Atmosphere Studies (COLA) where he directs all aspects of basic and applied climate research conducted by the Center. Dr. Kinter's research includes studies of climate dynamics and predictability on intra-seasonal and longer time scales, particularly the prediction of El Niño and other aspects of Earth's climate using general circulation models of the coupled ocean-atmosphere-land system. Dr. Kinter is a tenured Professor of Climate Dynamics in the Department of Atmospheric, Oceanic and Earth Sciences of the College of Science at George Mason University, where he has responsibilities for curriculum development, teaching graduate and undergraduate courses in global climate change, and advising Ph.D. students. After earning his doctorate in geophysical fluid dynamics at Princeton University, Dr. Kinter served as a National Research Council Associate at NASA Goddard Space Flight Center and as a faculty member of the University of Maryland prior to joining COLA and GMU.

PROFESSIONAL PREPARATION:

- 1983-1984 Post-doctoral: National Research Council Associate – NASA Goddard, Greenbelt, MD. Mentor: J. Shukla.
- 1984 Ph.D. (Geophysical Fluid Dynamics) Princeton University, Princeton, NJ. Dissertation: *Barotropic Studies of Stationary, Extratropical Anomalies in the Troposphere*. Advisor: K. Miyakoda, Geophysical Fluid Dynamics Laboratory.
- 1981 M.A. (Geophysical Fluid Dynamics) Princeton University, Princeton, NJ.
- 1979 A.B. (Mathematics) Princeton University, Princeton, NJ. Thesis: *Exchange Economy Analysis: A Comparison of Measure-Theoretic and Non-Standard Techniques*. Advisor: R. Anderson (Depts. of Mathematics and Economics).
- 1975-1979 Princeton University Scholarship, National Merit Scholarship.
- 1975 High school diploma, Penn Manor High School, Millersville, PA.

APPOINTMENTS:

- Jan2005-present Director - Center for Ocean-Land-Atmosphere Studies
Directs all aspects of COLA including basic research on the predictability and prediction of Earth's climate, grants and contracts, personnel, purchasing, local and remote supercomputing and data storage resources. Supervises scientific, technical and administrative staff of 32.
- Aug2011-present Professor of Climate Dynamics – Department of Atmospheric, Oceanic and Earth Sciences, College of Science, George Mason University
Teaches/advises graduate courses/students in climate dynamics.
- Aug2005-Jul2011 Associate Professor of Climate Dynamics – Department of Atmospheric, Oceanic and Earth Sciences, College of Science, George Mason University
Taught/advised graduate courses/students in climate dynamics.
- Aug1993-Jul2005 Executive Director and Associate Research Scientist - Center for Ocean-Land-Atmosphere Studies, Institute of Global Environment and Society
Managed COLA administration and conducted original research on climate dynamics, variability and predictability.

Aug1987-Jul1993 Assistant Research Scientist and Assistant Director - Center for Ocean-Land-Atmosphere Interactions, Department of Meteorology, University of Maryland at College Park
Managed COLA global spectral model projects and day-to-day COLA operations.

Aug1984-Jul1987 Assistant Professor - Department of Meteorology, University of Maryland at College Park
Conducted variability and predictability experiments with steady, linear and general circulation models of the atmosphere. Helped develop various parameterization schemes and post processing analysis codes.

Aug1983-Jul1984 National Research Council Associate - Goddard Laboratory for Atmospheric Sciences, NASA Goddard Space Flight Center
Examined variability of the troposphere in observations and simple models.

Sep1979-Jul1983 Graduate Student/Research Assistant - Geophysical Fluid Dynamics Program, Princeton University
Developed and extensively experimented with linear and nonlinear models of barotropic flow to gain understanding of large amplitude, quasi-stationary wintertime anomalies in the extratropical troposphere.

PROFESSIONAL AND COMMUNITY SERVICE:

Scientific Study and Advisory Committees:

NOAA MAPP CMIP5 Task Force (Chair, 2012-present; member 2011-present)
NAS/NRC Study Comm. on *A National Strategy for Advancing Climate Modeling* (2010–2012)
UCAR Community Advisory Committee for NCEP (Co-Chair, 2011-present)
USGCRP Strategic Planning Workshop (Chair, 2010)
National Science Foundation Advisory Committee for the Geosciences (2005 – 2009)
NSF Working Group on Geosciences Strategic Planning (2007-2009)
Community Climate System Model Advisory Board (2007-present)
NOAA Climate Test Bed Scientific Advisory Board (2005 – present)
Advisory Board, Journal of Advances in Modeling of Earth Systems (Chair, 2008-2011)
NOAA Applied Research Centers Directors Council (Chair, 2007-2008, member 2005-2010)
Earth System Modeling Framework Scientific Advisory Board (2007-2009)
OPeNDAP Advisory Board (2005 – 2009)
International Climate of the 20th Century Project (Co-Chair, 1998-present)
Catalan Center for Climate Sciences Scientific Advisory Committee (member, 2006-present)
World Climate Research Committee Modeling Panel (2005)
U.S. Global Change Research Program Study Group on the Water Cycle (1999-2001)
27th Climate Diagnostics and Prediction Workshop (Co-Chair, 2002)
Dynamics & Statistics of Secular Climate Variations Workshop, International Centre for Theoretical Physics, Trieste, Italy (Co-Chair, 1995)
NASA Applied Info. Systems Research Workshops (22-24 July 1991, 11-13 August 1992)
Workshop on 1988 U.S. Drought, University of Maryland (Co-Chair, 1990)
Ad-Hoc Panel on Reanalysis for Tropical Ocean Global Atmosphere program (1989)
NAS Board on Atmos. Sciences and Climate, Panel on Model Assimilated Data Sets (1989)
Atmospheric Forcing of Ocean Circulation Workshop, Inst. for Naval Oceanography (1987)

Computer-Related Activities:

Chair, TeraGrid Science Advisory Committee (2008 – 2010, member 2008 – 2011)
Member, National Science Foundation Advisory Comm. for Cyberinfrastructure (2006 – 2010)
NSF ACCI Grand Challenges and Virtual Organizations Task Group (member, 2009-2010)
NSF ACCI High-Performance Computing Task Group (member, 2009-2010)
NCAR-Wyoming Supercomputing Center Science Advisory Panel (member, 2009-present)
Co-Chair, NSF Advisory Committee on Computing for the Atmospheric Sciences (2007-2008)
Member, NSF Comm. for Petascale Computational Facilities for Geosciences (2004 – 2005)
Chair, NSF Comm. on Cyberinfrastructure for R&D in Atmospheric Sciences (2002 – 2004)
Member, Climate Simulation Laboratory Advisory Panel (1995-present, chair 1999-2004)
Member, NCAR CISL HPC Advisory Panel (1990-present)
Member, NASA Center for Computational Sciences Steering Committee (1989)
Member, NASA Center for Computational Sciences User's Committee (1986-1993)
Chair, College of Comp., Math. & Physical Sciences Supercomputing Comm. (1988-89)
Member, NASA Center for Comp. Sciences Scientific Requirements Comm. (1987,1994)
University of Maryland representative, NASA Center for Computational Sciences (1986-1993)
Contributor, University of Maryland Computer Science Center brochure (1988)
Member, University of Maryland Committee on High Performance Computing (1989-1991)

Review Committees:

National Centers for Environmental Prediction Review Panel (Co-Chair, 2008-2010)
NSF Office of Cyberinfrastructure Track I review panel (2007)
NSF Center for Multiscale Modeling of Atmospheric Processes Review Comm. (chair, 2007)
NOAA Climate Observations and Analysis Review (2007)
NSF Extensible Terascale Facility and Supercomputer Centers Review Panel (2006)
NOAA JISAO Cooperative Institute Review Committee (chair, 2005)
NOAA Applied Research Centers ECPC Review Committee (chair, 2005)
IRI search committees (1999-2000)
NSF Committee of Visitors (1998)
NASA MTPE Review Panel (1996)
Journals: *Journal of Climate*, *Climate Dynamics*, *Monthly Weather Review*, *Geophysical Research Letters*, *Journal of Geophysical Research – Oceans*, *Journal of Climatology and Applied Meteorology*, *Journal of the Meteorological Society of Japan*, *IBM Journal of Research and Development*, *Natural Hazards*, *Atmospheric Research*, *Bulletin of the American Meteorological Society*, *Swedish Research Council*
Agencies' grant programs: NSF, NOAA, DOE, AID, NASA (including Graduate Student Fellowships)

PUBLICATIONS:

Peer-reviewed journal articles (inverse chronological):

[total = 88, 69 in *Web of Science* with citation index in square brackets, total = 1798, h-index = 21; also book chapters and miscellaneous peer-reviewed material]

1. Cash, B., J. L. Kinter III, J. Adams, E. Altshuler, B. Huang, E. Jin, J. Manganello, L. Marx, T. Jung, 2014: Regional Structure of the Indian Monsoon in Observations, Reanalysis, and Simulation. *J. Climate* (submitted).
2. Zhu, J., B. Huang, B. Cash, J. L. Kinter III, J. Manganello, R. Barimalala, E. Altshuler, F. Vitart, F. Molteni, P. Towers, 2014: ENSO prediction in Project Minerva: Sensitivity to Atmospheric Horizontal Resolution and Ensemble Size. *J. Climate* (submitted).
3. Guan, Y., B. Huang, J. Zhu, Z.-Z. Hu, J. L. Kinter III, 2014: Interannual Variability of the South Pacific Ocean in Observations and Simulated by the NCEP Climate Forecast System, version 2. *Climate Dyn.*, (<http://dx.doi.org/10.1007/s00382-014-2148-y>).
4. Huang, B., J. Zhu, L. Marx, X. Wu, A. Kumar, Z.-Z. Hu, M. Balmaseda, S. Zhang, J. Lu, E. K. Schneider, J. L. Kinter III, 2014: Climate Drift of AMOC, North Atlantic Salinity and Arctic Sea Ice in CFSv2 Decadal Predictions, *Climate Dyn.* (submitted).
5. Manganello, J. V., K. I. Hodges, B. Dirmeyer, J. L. Kinter III, B. A. Cash, L. Marx, T. Jung, D. Achuthavarier, J. M. Adams, E. L. Altshuler, B. Huang, E. K. Jin, P. Towers, N. Wedi, 2014: Future Changes in the Western North Pacific Tropical Cyclone Activity Projected by a Multi-Decadal Simulation with a 16-km Global Atmospheric GCM. *J. Climate* (submitted).
6. Kumar, S., P. A. Dirmeyer, J. L. Kinter III, 2014: Usefulness of Ensemble Forecasts from NCEP Climate Forecast System in Sub-seasonal to Intra-annual Forecasting. *Geophys. Res. Lett.* (accepted).
7. Guan, Y., J. Zhu, B. Huang, Z.-Z. Hu, J. L. Kinter III, 2014: Southern subtropical Pacific dipole: a predictable mode on multi-seasonal time scales. *Geophys. Res. Lett.* (accepted).
8. Shukla, R. P. and J. L. Kinter III, 2014: Simulations of the Asian Monsoon using a Regionally Coupled Global Model. *Climate Dyn.* (in press) doi:[10.1007/s00382-014-2188-3](https://doi.org/10.1007/s00382-014-2188-3)
9. Krishnamurthy, V., C. Stan, D. A. Randall, R. P. Shukla, and J. L. Kinter III, 2013: Simulation of the South Asian monsoon in a coupled model with an embedded cloud resolving model. *J. Climate* <http://dx.doi.org/10.1175/JCLI-D-13-00257.1>.
10. Palipane, E., J. Lu, G. Chen, J. L. Kinter III, 2013: Improved Annular Mode Variability in a Global Atmospheric Model with 16-km Horizontal Resolution. *Geophys. Res. Lett.* 40, 4893–4899, doi:[10.1002/grl.50649](https://doi.org/10.1002/grl.50649). [0]
11. Kirtman, B., D. Min, J. M. Infant, J. L. Kinter III, D. A. Paolino, Q. Zhang, H. van den Dool, S. Saha, M. Pena Mendez, E. Becker, P. Peng, P. Tripp, J. Huang, D. G. DeWitt; M. K. Tippett, A. G. Barnston, S. Li, S. D. Schubert, M. Rienecker, M. Suarez, Z. E. Li, J. Marshak, Y.-K. Lim, J. Tribbia, K. Pegion, W. J. Merryfield, B. Denis, E. F. Wood, 2013: The US National Multi-Model Ensemble for Intra-seasonal to Interannual Prediction. *Bull. Amer. Meteor. Soc.* <http://dx.doi.org/10.1175/BAMS-D-12-00050.1>.
12. Wallace, J. M., J. Shukla, B. Hoskins, G. North, L. Bengtsson, J. L. Kinter III, E. Sarachik, B. N. Goswami, and S. Rayner, 2013: Scientific Context for Human-Induced Climate Change: Summary Report of a Workshop International Centre for Theoretical Physics, Trieste, Italy August 6-7 2012. *Eos Trans. Amer. Geophys. Soc.* (submitted).

13. Maloney, E. D., S. J. Camargo, E. Chang, B. Colle, R. Fu, K. L. Geils, Q. Hu, X. Jiang, N. Johnson, K. Karnauskas, J. L. Kinter III, B. Kirtman, S. Kumar, B. Langenbrunner, K. Lombardo, L. N. Long, A. Mariotti, J. E. Meyerson, K. C. Mo, J. D. Neelin, Z. Pan, R. Seager, Y. Serra, A. Seth, J. Sheffield, J. Stroeve, J. Thibeault, C. Wang, B. Wyman, S.-P. Xie, and M. Zhao, 2013: North American Climate in CMIP5 Experiments: Part III: Assessment of 21st Century Projections. *J. Climate* (accepted).
14. Sheffield, J., S. J. Camargo, R. Fu, Q. Hu, X. Jiang, N. Johnson, K. Karnauskas, J. L. Kinter III, S. Kumar, B. Langenbrunner, E. Maloney, A. Mariotti, J. E. Meyerson, D. Neelin, Z. Pan, A. Ruiz-Barradas, R. Seager, Y. L Serra, D.-Z. Sun, C. Wang, S.-P. Xie, J.-Y. Yu, T. Zhang, and M. Zhao, 2013: North American Climate in CMIP5 Experiments. Part II: Evaluation of 20th Century Intra-Seasonal to Decadal Variability. *J. Climate*, 26, 9247-9290. [0]
15. Sheffield, J., A. Barrett, B. Colle, R. Fu, K. L Geils, Q. Hu, J. L. Kinter III, S. Kumar, B. Langenbrunner, K. Lombardo, L. N. Long, E. Maloney, A. Mariotti, J. E. Meyerson, K. C Mo, D. Neelin, Z. Pan, A. Ruiz-Barradas, Y. L Serra, A. Seth, J. M. Thibeault, J. C. Stroeve, 2013: North American Climate in CMIP5 Experiments. Part I: Evaluation of 20th Century Continental and Regional Climatology. *J. Climate*, 26, 9209-9245. [0]
16. Solomon, A., J. Lu, and J. L. Kinter III, 2013: Tornado Risks Will Shift with a Changing Climate. *Nature Comm.* (submitted).
17. Zhu, J., B. Huang, M. Balmaseda, J. L. Kinter III, P. Peng, Z.-Z. Hu, and L. Marx, 2013: Improved reliability of ENSO hindcasts with multi-ocean analyses ensemble initialization. *Climate Dyn.*, 41, 2785-2795. [0]
18. Miyamoto, Y., M. Satoh, H. Tomita and J. L. Kinter III, 2013: Gradient Wind Balance in Tropical Cyclones in global nonhydrostatic model simulations. *Mon. Wea. Rev.* (in press).
19. Zhu, J., B. Huang, Z.-Z. Hu, J. L. Kinter III, L. Marx, 2013: Predicting US Summer Precipitation using NCEP Climate Forecast System Version 2 initialized by Multiple Ocean Analyses. *Climate Dyn.*, 41, 19141-1954. [0]
20. Kumar, Sanjiv, James Kinter, Paul A. Dirmeyer, Zaitao Pan, Jennifer Adams, 2013: Multidecadal Climate Variability and the “Warming Hole” in North America: Results from CMIP5 Twentieth- and Twenty-First-Century Climate Simulations*. *J. Climate*, 26, 3511–3527.
21. Pan, Z., X. Liu, S. Kumar, Z. Gao and J. L. Kinter III, 2013: Inter-model variability and mechanism attribution of central and southeastern U.S. anomalous cooling in the 20th century as simulated by CMIP5 models. *J. Climate*, 26, 6215-6237. doi: 10.1175/JCLI-D-12-00559.1 [0]
22. Kumar S., V. Merwade D. Niyogi J. L. Kinter III, 2013: Evaluation of Temperature and Precipitation Trends and long-term Persistence in CMIP5 20th Century Climate Simulations. *J. Climate*, 26, 4168–4185. doi:<http://dx.doi.org/10.1175/JCLI-D-12-00259.1>. [0]
23. Kinter III, J. L., B. Cash, D. Achuthavarier, J. Adams, E. Altshuler, P. Dirmeyer, B. Doty, B. Huang, L. Marx, J. Manganello, C. Stan, T. Wakefield, E. Jin, T. Palmer, M. Hamrud, T. Jung, M. Miller, P. Towers, N. Wedi, M. Satoh, H. Tomita, C. Kodama, T. Nasuno, K. Oouchi, Y. Yamada, H. Taniguchi, P. Andrews, T. Baer, M. Ezell, C. Halloy, D. John, B. Loftis, R. Mohr, and K. Wong, 2013: Revolutionizing Climate Modeling – Project Athena: A Multi-Institutional, International Collaboration. *Bull. Amer. Meteor. Soc.*, 94, 231-245. [4]
24. Rodo, X., M. Pascual, F .J. Doblas-Reyes, A. Gershunov, D. A. Stone, F. Giorgi, P. J. Hudson, J. L. Kinter III, M.-A. Rodriguez-Arias, N. C. Stenseth, A. P. Dobson, 2013: Climate Change and Infectious Diseases: Can We Meet the Needs for Better Prediction? *Climatic Change*, 118, 625-640. doi: 10.1007/10584-013-0744-1. [0]

25. Kumar S., J. L. Kinter III, P. A. Dirmeyer, Z. Pan and J. Adams, 2012: Multi-decadal Climate Variability and the ‘Warming Hole’ in North America – results from CMIP5 20th and 21st Century Climate Simulations. *J. Climate*, **26**, 3511–3527. [1]
26. Kirtman, B. P., C. Bitz, F. Bryan, W. Collins, J. Dennis, N. Hearn, J. L. Kinter III, R. Loft, C. Rousset, L. Siqueira, C. Stan, R. Tomas and M. Vertenstein, 2012: Impact of Ocean Model Resolution on CCSM Climate Simulations. *J. Climate*, **39**, 303-328. doi:10.1007/s00382-012-1500-3 [5]
27. Narapusetty, B., C. Stan, B. P. Kirtman, L. Marx, and J. L. Kinter III, 2012: The role of atmospheric internal variability on the tropical instability wave dynamics. *J. Geophys. Res.*, **117**, doi:10.1029/2012JC007906. [1]
28. Zhu, J., B. Huang, L. Marx, J. L. Kinter III, M. A. Balmaseda, R.-H. Zhang, and Z.-Z. Hu, 2012: Ensemble ENSO hindcasts initialized from multiple ocean analyses. *Geophys. Res. Lett.*, **39**, L09602, doi:10.1029/2012GL051503. [6]
29. Dirmeyer, P. A., B. A. Cash, J. L. Kinter III, C. Stan, T. Jung, L. Marx, P. Towers, N. Wedi, J. M. Adams, E. L. Altshuler, B. Huang, E. K. Jin, and J. Manganello, 2012: Evidence for Enhanced Land-Atmosphere Feedback in a Warming Climate. *J. Hydrometeorol.* **13**, 981-995. [5]
30. Hu, Z.-Z., B. Huang, J. L. Kinter III, Z. Wu and A. Kumar, 2012: Connection of Stratospheric QBO with Global Atmospheric General Circulation and Tropical SST. Part II: Interdecadal Variations. *Climate Dyn.*, **18**, 25-43. DOI 10.1007/s00382-011-1073-6. [3]
31. Huang, B., Z.-Z. Hu, J. L. Kinter III, Z. Wu and A. Kumar, 2012: Connection of Stratospheric QBO with Global Atmospheric General Circulation and Tropical SST. Part I: Methodology and Composite Life Cycle. *Climate Dyn.* **18**, 1-23. [3]
32. Manganello, J. V., K. I. Hodges, J. L. Kinter III, B. A. Cash, L. Marx, T. Jung, D. Achuthavarier, J. M. Adams, E. L. Altshuler, B. Huang, E. K. Jin, C. Stan, P. Towers and N. Wedi, 2012: Tropical Cyclone Climatology in a 10-km Global Atmospheric GCM: Toward Weather-Resolving Climate Modeling. *J. Climate*, **25**, 3867-3893 doi:10.1175/JCLI-D-11-00346.1. [10]
33. Dirmeyer, P. A. B. A. Cash, J. L. Kinter III, T. Jung, L. Marx, M. Satoh, C. Stan, H. Tomita, P. Towers, N. Wedi, D. Achuthavarier, J. M. Adams, E. L. Altshuler, B. Huang, E. K. Jin, and J. Manganello, 2012: Simulating the diurnal cycle of rainfall in global climate models: Resolution versus parameterization. *Climate Dyn.*, **39**, 399-418, DOI 10.1007/s00382-011-1127-9 [10]
34. Paolino, D. A., J. L. Kinter III, B. P. Kirtman, D. Min, and D. M. Straus, 2011: The impact of land surface and atmospheric initialization on seasonal forecasts with CCSM. *J. Climate*, **25**, 1007-1021, doi:10.1175/2011JCLI3934.1. [1]
35. Fennessy, M. J., and J. L. Kinter III, 2011: Climatic feedbacks during the 2003 European heatwave. *J. Climate*, **24**, 5953-5967, doi:10.1175/2011JCLI3523.1. [1]
36. Satoh, M., Oouchi, K., Nasuno, T., Taniguchi, H., Yamada, Y., Tomita, H., Kodama, C., Kinter III, J., Achuthavarier, D. Manganello, J. Cash, B., Jung, T., Palmer, T. and Wedi, N., 2011: Intra-Seasonal Oscillation and its control of tropical cyclones simulated by high-resolution global atmospheric models. *Climate Dyn.*, **39**, 2185-2206. doi10.1007/s00382-011-1235-6. [3]
37. Jung, T., M. J. Miller, T. N. Palmer, P. Towers, N. Wedi, D. Achuthavarier, J. M. Adams, E. L. Altshuler, B. A. Cash, J. L. Kinter III, L. Marx, C. Stan, K. I. Hodges, 2011: High-Resolution Global Climate Simulations with the ECMWF Model in the Athena Project: Experimental Design, Model Climate and Seasonal Forecast Skill. *J. Climate*, **25**, 3155-3172. <http://dx.doi.org/10.1175/JCLI-D-11-00265.1> [17]
38. DeMott, Charlotte A., David A. Randall, Cristiana Stan, James L. Kinter III, and Marat Khairoutdinov, 2011: The Asian Monsoon in the Super-Parameterized CCSM and its Relationship to Tropical Wave Activity. *J. Climate*, **24**, 5134-5156. [4]

39. Shukla, J., T.N. Palmer, R. Hagedorn, B. Hoskins, J. L. Kinter III, J. Marotzke, M. Miller, and J. Slingo, 2010: Toward a New Generation of World Climate Research and Computing Facilities. *Bull. Amer. Meteor. Soc.*, **91**, 1407-1412. [18]
40. Dirmeyer, P. A., and J. L. Kinter III, 2010: Floods over the US Midwest: A Regional Water Cycle Perspective. *J. Hydrometeor.*, **11**, 1172-1181. [12]
41. Wu, R. and J. L. Kinter III, 2010: Shortwave Radiation-SST Relationship over Mid-Latitude North Pacific During Boreal Summer in Climate Models. *Clim. Dyn.*, doi: 10.1007/s00382-010-0775-5. [1]
42. Wu, R. and J. L. Kinter III, 2010: The Atmosphere-Ocean Relationship in the Mid-Latitude North Pacific: Seasonal Dependence and East-West Contrast. *J. Geophys. Res.*, **115**, D06101, doi:10.1029/2009JD012579. [7]
43. Cash, B. A., X. Rodó, J. L. Kinter III, and Md. Yunus, 2010: Disentangling the Impact of ENSO and Indian Ocean Variability on the Regional Climate of Bangladesh: Implications for Cholera Risk. *J. Climate*, **23**, 2817–2831. [2]
44. Grainger, S., C. S. Frederiksen, X. Zheng, D. Fereday, C. K. Folland, E. K. Jin, J. L. Kinter III, J. R. Knight, S. Schubert, J. Syktus, 2009: Modes of Variability of Southern Hemisphere Atmospheric Circulation Estimated by AGCMs. *Clim. Dyn.*, **36**, 473, doi 10.1007/s00382-009-0720-7. [3]
45. Navarra, A., J. L. Kinter III, & J. Tribbia, 2010: Crucial Experiments in Climate Science. *Bull. Amer. Meteor. Soc.*, **91**, 343-352. [6]
46. Schneider, E. K., M. J. Fennessy, and J. L. Kinter III, 2009: A Statistical-Dynamical Estimate of Winter ENSO Teleconnections in a Future Climate. *J. Climate*, **22**, 6624–6638. [6]
47. Stan, S., M. Khairoutdinov, C. A. DeMott, D. M. Straus, D. A. Randall, J. L. Kinter III, and J. Shukla, 2009: An Ocean-Atmosphere Climate Simulation with an Embedded Cloud-Resolving Model. *Geophys. Res. Lett.*, **37**, L01702, doi:10.1029/2009GL040822. [23]
48. Cornillon, P., J. Adams, B. Blumenthal, E. Chassignet, E. Davis, S. Hankin, J. Kinter III, R. Mendelsohn, J. T. Potemra, A. Srinivasan, & J. Sirott, 2009: NVODS and the Development of OPeNDAP – an Integrative Tool for Oceanographic Data Systems. *Oceanogr.*, **22**, 116-127. [4]
49. Wu, R. and J. L. Kinter III, 2009 : Analysis of the Relationship of U.S. Droughts with SST and Soil Moisture : Distinguishing the Time Scale of Droughts. *J. Climate*, **22**, 4520-4538. [10]
50. Wang, B., Lee, J. Y., Kang, I. S., Shukla, J., Park, C.K., Kumar, A., Schemm, J., Cocke, S., Kug, J.S., Luo, J. J., Zhou, T., Wang, B., Fu, X., Yun, W. T., Alves, O., Jin, E.K., Kinter, J., Kirtman, B., Krishnamurti, T., Lau, N. C., Lau, W., Liu, P., Pegion, P., Rosati, T., Schubert, S., Stern, W., Suarez, M., Yamagata, T., 2009: Advance and Prospectus of Seasonal Prediction: Assessment of the APCC/CLIPAS 14-Model Ensemble Retrospective Seasonal Prediction (1980-2004). *Climate Dyn.*, **33**, 93-117. [75]
51. Cash, B. A., X. Rodó, J. L. Kinter III, 2009: Links between tropical Pacific SST and the regional climate of Bangladesh: Role of the western tropical and central extratropical Pacific. *J. Climate*, **22**, 1641-1660. [5]
52. Zhou, T., B. Wu, A. A. Scaife, S. Bronnimann, A. Cherchi, C. Deser, A. M. Fischer, C. K. Folland, E. K. Jin, J. Kinter III, F. Kucharski, S. Kusunoki, N.-C. Lau, L. Li, M. J. Nath, T. Nakaegawa, P. Pegion, E. Rozanov, S. Schubert, P. Sporyshev, A. Voldoire, & J. H. Yoon, 2009: The CLIVAR C20C Project: Which components of the Asian-Australian Monsoon variability are forced and reproducible? *Climate Dyn.*, **33**, 1051-1068. [46]
53. Cash, B.A., X. Rodó, and J. L. Kinter III, 2009: Links between tropical Pacific SST and cholera incidence in Bangladesh: Role of the eastern and central tropical Pacific. *J. Climate*, **21**, 4647–4663. [9]

54. Dirmeyer, P. A. and J. L. Kinter III, 2009: The “Maya Express”: Floods in the U.S. Midwest. *EOS, Trans. Amer. Geophys. Union*, **90**, 101-102. [5]
55. Jin, E. K. and J. L. Kinter III, 2009: Characteristics of tropical Pacific SST predictability in coupled GCM forecasts using the NCEP CFS. *Climate Dyn.*, **32**, 675-691. [11]
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Kinter III, J. L. B. Kirtman, R. Loft, M. Vertenstein, W. Collins, K. Yelick: New Coupling Strategies and Capabilities for Petascale Climate Modeling. NSF \$600K (three years) (**awarded** 2008).
Kinter III, J. L., et al.: Demonstrating the Value of NASA Research Satellite Data, Data Assimilation Products and Models for Improving Seasonal Prediction of Tropical Climate. NASA \$1,500K (three years) (**awarded** 2005).
Kinter III, J. L. and B. P. Kirtman: COLA Contributions to NOAA ARCs Collaborative Research on Intra-Seasonal to Interannual Climate Prediction. NOAA \$800K (three years) (**awarded** 2004).
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Kafatos, M. et al. (GMU, including J. L. Kinter III and B. E. Doty): SIESIP. NASA \$1.2M (four years) (**awarded** 1997)

Dirmeyer, P. A. and J. L. Kinter III: Integrated climate, hydrologic and decision-support models for regional assessment. NSF MMIA \$555,000 (three years) (**awarded** 1997)

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