

COLA REFEREED PUBLICATIONS 2009

2009:

1. **Achuthavarier**, D. 2009: Role of the Indian and Pacific Oceans in Indian Summer Monsoon Variability. *Ph.D. Dissertation*, George Mason University.
2. Bao, Z., Z. Wen, and R. **Wu**, 2009: Variability of aerosol optical depth over east Asia and its possible impacts. *J. Geophys. Res.*, 114, D05203, doi:10.1029/2008JD010603.
3. **Cash**, B. A., X. Rodó, and J. L. **Kinter** III, 2009a: Links between tropical Pacific SST and cholera incidence in Bangladesh: Role of the eastern and central tropical Pacific. *J. Climate*, **21**, 4647–4663.
4. **Cash**, B. A., X. Rodó, J. L. **Kinter** III, 2009b: 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. **DelSole**, T. and J. **Shukla**, 2009: Artificial skill due to predictor screening. *J. Climate*, **22**, 331–345.
6. **DelSole**, T. and M. K. Tippett, 2009a: Average predictability time: Part I. Theory. *J. Atmos. Sci.*, **66**, 1172–1187.
7. **DelSole**, T. and M. K. Tippett, 2009b: Average predictability time: Part II: Seamless diagnosis of predictability on multiple time scales. *J. Atmos. Sci.*, **66**, 1188–1204.
8. **DelSole**, T., M. **Zhao**, and P. A. **Dirmeyer**, 2009: A new method for exploring coupled land-atmosphere dynamics. *J. Hydrometeor.*, **10**, 1040–1050.
9. **Dirmeyer**, P. A., K. L. Brubaker, and T. **DelSole**, 2009a: Import and export of atmospheric water vapor between nations. *J. Hydrology*, **365**, 11–22.
10. **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.
11. **Dirmeyer**, P. A., C. A. Schlosser, and K. L. Brubaker, 2009b: Precipitation, recycling and land memory: An integrated analysis. *J. Hydrometeor.*, **10**, 278–288.
12. **Fan**, M. 2009: Low frequency North Atlantic SST variability: Weather noise forcing and coupled response. *Ph.D. Dissertation*, George Mason University, 205 pp.
13. 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.
14. **Hu**, Z.-Z., and B. **Huang**, 2009: Interferential Impact of ENSO and PDO on Dry and Wet Conditions in the U. S. Great Plains. *J. Climate*, **22**, 6047–6065.
15. **Hu**, Z.-Z., B. **Huang**, and K. **Pegion**, 2009: Biases and the most predictable patterns in the NCEP CFS over the tropical Atlantic Ocean. In “The Atlantic and Indian Oceans: New Oceanographic Research”, edited by Edward S. Askew and James P. Bromley, Science Publishers, Inc., New York, USA (ISBN: 978-1-60692-475-4), pp.1-15.
16. **Jin**, D., and B. P. **Kirtman**, 2009: Why the Southern Hemisphere ENSO responses lead ENSO. *J. Geophys. Res.*, 114 doi:10.1029/2009JD012657.
17. **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.
18. **Kirtman**, B. P., and D. Min, 2009: Multi-model ensemble ENSO prediction with CCSM and CFS. *Mon. Wea. Rev.*, **137**, 2908–2930, doi: 10.1175/2009MWR2672.1.

COLA REFEREED PUBLICATIONS 2009

19. **Kirtman**, B. P., D. M. **Straus**, D. Min, E. K. **Schneider**, and L. Siqueira, 2009: Toward linking weather and climate in the interactive ensemble NCAR climate model. *Geophys. Res. Lett.*, **36**, L13705, doi:10.1029/2009GL038389.
20. **Klinger**, B. A., and C. **Cruz**, 2009: Decadal response of global circulation to Southern Ocean zonal wind stress perturbation. *J. Phys. Oceanogr.*, **39**, 1888-1904.
21. Koster, R. D., Z. **Guo**, P. A. **Dirmeyer**, R. Yang, K. Mitchell, and M. J. Puma, 2009: On the nature of soil moisture in land surface models. *J. Climate*, **22**, 4322-4335.
22. **Krishnamurthy**, V., and B. P. **Kirtman**, 2009: Relation between Indian monsoon variability and SST. *J. Climate*, **22**, 4437-4458.
23. Kucharski, F., A. A. Scaife, J. H. Yoo, C. K. Folland, J. L. **Kinter** III, J. Knight, D. Fereday, A. M. Fischer, E. K. **Jin**, J. Kroger, N.-C. Lau, T. Nakaegawa, M. J. Nath, P. Pegion, E. Rozanov, S. Schubert, P. V. Sporyshev, J. Syktus, A. Voldoire, J. H. Yoon, N. Zeng, & T. Zhou, 2009b: The CLIVAR C20C Project. Skill of simulating Indian monsoon rainfall on interannual to decadal timescales. Does GHG forcing play a role? *Climate Dyn.*, doi :10.1007/s00382-008-0462-y.
24. Liang, J., S. Yang, Z.-Z. **Hu**, B. **Huang**, A. Kumar, and Z. Zhang, 2009: Predictable patterns of the Asian and Indo-Pacific summer precipitation in NCEP CFS. *Climate Dyn.*, **32**, 989-1001, DOI 10.1007/s00382-008-0420-8.
25. **Lu**, J., 2009: The dynamics of the Indian Ocean sea surface temperature forcing for the Sahel drought. *Climate Dyn.*, **33**, 445-460, doi: 10.1007/s00382-009-0596-6.
26. **Lu**, J., C. Deser, and T. Reichler, 2009: The cause for the widening of the tropical belt since 1958. *Geophys. Res. Lett.* **36**, L03803, doi: 10.1029/GL036076
27. **Manganello**, J. V., and B. **Huang**, 2009: The influence of systematic errors in the Southeast Pacific on ENSO variability and prediction in a coupled GCM. *Climate Dyn.*, **32**, 1015-1034, DOI 10.1007/s00382-008-0407-5.
28. Misra, V., S. Chan, R. **Wu**, and E. Chassignet, 2009: Air-sea interaction over the Atlantic warm pool in the NCEP CFS. *Geophys. Res. Lett.*, **36**, L15702, doi:10.1029/2009GL038737. "C"
29. Misra, V., and P. A. **Dirmeyer**, 2009: Air, sea and land interactions of the continental US hydroclimate. *J. Hydrometeor.*, **10**, 353-373.
30. Monahan, A. H. and T. **DelSole**, 2009: Information theoretic measures of dependence, compactness, and non-Gaussianity. *Nonlin. Processes Geophys.*, **16**, 57-64.
31. **Narapusetty**, B., T. **DelSole**, and M. K. Tippett, 2009: Optimal estimation of the climatological mean. *J. Climate*, **22**, 4845-4859.
32. **Pan**, X., 2009: Impact of Mean Climate on ENSO Simulation and Prediction. *Ph.D. Dissertation*, George Mason University.
33. Scaife, A., F. Kucharski, C. Folland, J. **Kinter** III, D. Fereday, A. Fischer, S. Grainger, E. **Jin**, I. Kang, J. Knight, S. Kusunoki, N. Lau, M. Nath, T. Nakaegawa, P. Pegion, S. Schubert, P. Sporyshev, J. Syktus, J. Yoon, N. Zeng, and T. Zhou, 2009: The CLIVAR C20C Project: Selected 20th century climate events. *Climate Dyn.*, **33**, 603-614, doi:10.1007/s00382-008-0451-1.
34. **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.
35. **Shukla**, J., 2009: Seamless prediction of weather and climate: A new paradigm for modeling and prediction research. *MAUSAM*, **60**, 11-18.
36. **Shukla**, J., R. Hagedorn, B. Hoskins, J. **Kinter** III, J. Marotzke, M. Miller, T. N. Palmer, and J. Slingo, 2009: Revolution in Climate Prediction is Both Necessary and Possible: A Declaration at the World Modelling Summit for Climate Prediction. *Bull. Amer. Meteor. Soc.*, **90**, 175-178.

COLA REFEREED PUBLICATIONS 2009

37. **Stan**, C., and D. M. **Straus**, 2009: Stratospheric Predictability and Sudden Stratospheric Warming Events. *J. Geophys. Res.*, 114, D12103. DOI: 10.1029/2008JD011277
38. **Straus**, D. M. and D. **Paolino**, 2009: Intermediate time error growth and predictability: tropics versus mid-latitudes. *Tellus A*, 61, 579–586, doi:10.1111/j.1600-0870.2009.00411.x
39. 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.
40. **Wu**, R., 2009: Possible role of the Indian Ocean in the out-of-phase transition of the Australian to Indian summer monsoon. *J. Climate*, 22, 1834-1849.
41. **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.
42. **Wu**, R., and B. P. **Kirtman**, 2009: Variability of El Niño-Southern Oscillation-related noise in the equatorial Pacific Ocean. *J. Geophys. Res.*, 114, D23106, doi:10.1029/2009JD012456.
43. **Wu**, R., B. P. **Kirtman**, and H. van den Dool, 2009: An analysis of ENSO prediction skill in the CFS retrospective forecast. *J. Climate*, 22, 1801-1818.
44. **Wu**, Z. and N. Huang, 2009: Ensemble Empirical Model Decomposition: A Noise-Assisted Data Analysis Method. *Adv. Adaptive Data Analysis*, 1, 1-41.
45. **Yang**, X. and T. **DelSole**, 2009a: A diffuse ensemble square root filter. *Nonlin. Processes Geophys.*, 16, 475–486.
46. **Yang**, X. and T. **DelSole**, 2009b: Using the ensemble Kalman Filter to estimate multiplicative model parameters. *Tellus*, 61, 601–609.
47. **Yeh**, S.-W., and B. P. **Kirtman**, 2009: Interannual atmospheric variability and interannual-to-decadal ENSO variability in a CGCM. *J. Climate*, 22, 2335-2355.
48. Zheng, X., D. M. **Straus**, C. S. Frederiksen, and S. Grainger, 2009: Potentially predictable patterns of seasonal mean geopotential heights in an ensemble of climate simulations with the COLA AGCM *Quart. J. Royal. Meteor. Soc.*, 135, 1816 - 1829. DOI: 10.1002/qj.492
49. Zhou, L., R. E. Dickinson, A. Dai, and P. A. **Dirmeyer**, 2009a: Spatiotemporal patterns of changes in maximum and minimum temperatures in multi-model simulations. *Geophys. Res. Lett.*, 36, L02702, doi:10.1029/2008GL036141.
50. Zhou, L., R. E. Dickinson, P. **Dirmeyer**, A. Dai, and S.-K. Min, 2009b: Detection and attribution of anthropogenic forcing to diurnal temperature range changes from 1950 to 1999: comparing multi-model simulations with observations. *Climate Dyn.*, 10.1007/s00382-009-0644-2.
51. Zhou, L.-T., and R. **Wu**, 2009: Respective impacts of the East Asian winter monsoon and ENSO on winter rainfall in China. *J. Geophys. Res.*, 115, D02107, doi:10.1029/2009JD012502.
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, and J. H. Yoon, 2009c: The CLIVAR C20C Project: Which components of the Asian-Australian Monsoon variability are forced and reproducible? *Climate Dyn.*, 33, 1051-1068.