

### COLA Refereed Publications 2014

1. **Bombardi, R., J. Zhu, L. Marx, B. Huang, H. Chen, J. Lu, L. Krishnamurthy, V. Krishnamurthy, I. Colfescu, J. L. Kinter III, A. Kumar, Z.-Z. Hu, S. Moorthi., P. Tripp, X. Wu, and E. K. Schneider**, 2014: Evaluation of the CFSv2 CMIP5 Decadal Predictions. *Climate Dyn.*, submitted.
2. **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).
3. **Cash, B. A., M. Pascual, M. Emch, Md. Yunus**, 2014: Links between flooding, cholera, and shigellosis in Bangladesh. *PLoS One* (in revision).
4. **Chen, H.-C., C.-H. Sui, Y.-H. Tseng, and B. Huang**, 2014: An analysis of climate oscillations in Pacific subtropical cells. *J. Climate*, submitted.
5. **Cooke, M. A., E. Demirov, and J. Zhu**, 2014: A model study of the relationship between sea-ice variability and surface and intermediate water mass properties in the Labrador Sea. *Atmosphere-Ocean*, **52**, 142-154.
6. **DelSole, T., M. K. Tippett, and L. Jia**, 2014: Multi-year Prediction and Predictability. To appear in *World Scientific Series on Weather and Climate*.
7. **DelSole, T., X. Yan, P. A. Dirmeyer, M. Fennessy, and E. Altshuler**, 2014: Seasonal predictability in a changing climate. *J. Climate*, **27**, 300-311, doi: 10.1175/JCLI-D-13-00026.1.
8. **Dirmeyer, P. A., J. Wei, M. G. Bosilovich, and D. M. Mocko**, 2014: Comparing evaporative sources of terrestrial precipitation and their extremes in MERRA using relative entropy. *J. Hydrometeor.*, **15**, 102-116, doi: 10.1175/JHM-D-13-053.1.
9. **Dirmeyer, P. A., Z. Wang, M. J. Mbuli and H. E. Norton**, 2014: Intensified land surface control on boundary layer growth in a changing climate. *Geophys. Res. Lett.*, **41**, 1290-1294, doi: 10.1002/2013GL058826.
10. **Gao, Z., Z.-Z. Hu, B. Jha, S. Yang, J. Zhu, B. Shen, and R. Zhang**, 2014: Variability and Predictability of Northeast China Climate during 1948-2012. *Climate Dyn.* (published online). DOI: 10.1007/s00382-013-1944-0.
11. **Gao, Z., Z.-Z. Hu, J. Zhu, S. Yang, R.-H. Zhang, Z. Xiao and B. Jha**, 2014: Variability and Prediction of Summer Rainfall in Northeast China. *J. Climate* (submitted).
12. **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>).
13. **Guan, Y., J. Zhu, B. Huang, Z.-Z. Hu, J. L. Kinter III**, 2014: South Pacific Ocean Dipole: A Predictable Mode on Multiseasonal Time Scales. *J. Climate*, **27**, 1648-1658.
14. **Hauser, T., E. Demirov, J. Zhu, and I. Yashayaev**, 2014: North Atlantic atmospheric and ocean inter-annual variability over the past fifty years - dominant patterns and decadal shifts. *Progress in Oceanography* (submitted).
15. **Hazra, A., V. Krishnamurthy**, 2014: Space-time structure of diabatic heating in monsoon intraseasonal oscillation. *J. Climate* (submitted).
16. **Hu, Z.-Z., A. Kumar, B. Huang, J. Zhu, and Y. Guan**, 2014: Prediction skill of North Pacific variability in NCEP Climate Forecast System Version 2: Impact of ENSO and beyond. *J. Climate* (published online). doi: 10.1175/JCLI-D-13-00633.1.
17. **Hu, Z.-Z., A. Kumar, B. Huang, J. Zhu, and R.-H. Zhang**, 2014: Asymmetric evolution of El Niño and La Niña: The recharge/discharge processes and meridional gradient. *Climate. Dyn.* (submitted).
18. **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).

19. Jia, L., T. **DelSole**, and M. K. Tippett, 2014: Can optimal projection improve dynamical model forecasts? *J. Climate*, 27, 2643–2655.
20. Jin, L., J. **Zhu**, Y. Huang, H.-S. Zhao, K.-P. Lin, and J. Jin, 2014: Nonlinear Statistical Ensemble Model for Rainfall Short-range Prediction. *Theor. Appl. Climatol.* (published online). DOI 10.1007/s00704-014-1161-8.
21. **Krishnamurthy**, L., and V. **Krishnamurthy**, 2014: Teleconnections of AMO and Atlantic Tripole with the Indian Monsoon Rainfall. *J. Geophys. Res.* (submitted).
22. **Kumar**, S., P. A. **Dirmeyer** and J. **Kinter** III, 2014: Usefulness of Ensemble Forecasts from NCEP Climate Forecast System in Sub-seasonal to Intra-annual Forecasting. *Geophys. Res. Lett.*, (in review).
23. **Kumar**, S., D. M. Lawrence, P. A. **Dirmeyer** and J. Sheffield, 2014: Less reliable water availability in the 21st century climate projections. *Earth's Future*, 1, doi: 10.1002/2013EF000159.
24. **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).
25. Meehl G. A., L. Goddard, G. Boer, R. Burgman, G. Branstator, C. Cassou, S. Corti, G. Danabasoglu, F. Doblas-Reyes, E. Hawkins, A. Karspeck, M. Kimoto, A. Kumar, D. Matei, J. Mignot, R. Msadek, H. Pohlmann, M. Rienecker, T. Rosati, E. **Schneider**, D. Smith, R. Sutton, H. Teng, G. J. van Oldenborgh, G. Vecchi, S. Yeager, 2014: Decadal Climate Prediction: An Update from the Trenches. *Bull. Amer. Meteor. Soc.*, 95, 243–267.
26. **Narapusetty**, B. C. **Stan**, and A. Kumar, 2014: Bias corrections methods for decadal sea-surface temperature forecasts. *Tellus*, 66, 23681, doi:10.3402/tellusa.v66.23681
27. **Shukla**, R. P., 2014: The dominant intraseasonal mode of intraseasonal South Asian summer monsoon. *J. Geophys. Res.*, **119**, 635–651, doi: 10.1002/2013JD020335
28. **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
29. **Shukla**, R. P., S. Rai and A. C. Pandey, 2013: Southern and tropical Indian Ocean SST: A possible predictor of winter monsoon rainfall over South India. *Atmos. Climate Sci.*, 3, 440–449.
30. **Shukla**, R., and J. **Zhu**, 2014: Simulations of boreal summer intraseasonal oscillation with CFSv2 over India and western Pacific: role of air-sea coupling. *Atmosphere-Ocean* (accepted).
31. **Straus**, D. M., E. Swenson and C.-L., Lappen, 2014: The MJO Cycle Forcing of the North Atlantic Circulation: Intervention Experiments with the Community Earth System Model. *J. Atmos. Sci.*, (submitted).
32. Sutanto, S. J., B. van den Hurk, G. Hoffman, J. Wenninger, P. A. **Dirmeyer**, S. I. Seneviratne, T. Röckmann, K. E. Trenberth, and E. M. Blyth, 2014: A perspective on different approaches to determine the contribution of transpiration to the surface moisture fluxes. *Hydrol. Earth Sys. Sci.*, 11, 2583-2612, doi: 10.5194/hessd-11-2583-2014.
33. **Tawfik**, A. B., and P. A. **Dirmeyer**, 2014: A process-based framework for quantifying the atmospheric preconditioning of surface triggered convection. *Geophys. Res. Lett.*, 41, 173–178, doi: 10.1002/2013GL057984.
34. Zhang, R.-H., Z. Li, J. **Zhu**, X. Kang, J. Min, 2014: Impact of Tropical Instability Waves-induced SST Forcing on the Atmosphere in the Tropical Pacific, Evaluated Using CAM5.1. *Atmos. Sci. Lett.* (published online). DOI: 10.1002/asl2.488.
35. **Zhu**, J., E. Demirov, Y. Zhang, and A. M. Polomska-Harlick, 2014: Model simulations of mesoscale eddies and deep convection in the Labrador Sea. *Adv. Atmos. Sci.*, **31**, 743-754. doi:10.1007/s00376-013-3107-y.

36. **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).
37. **Zhu, J., B. Huang, R.-H. Zhang, Z.-Z. Hu, A. Kumar, M. Balmaseda, J. L. Kinter III**, 2014: Salinity Anomaly as a Trigger for ENSO Events. (in preparation).