

**Peer-Reviewed Journal Articles and Reports:****In Review**

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>>>> Dirmeyer, P. A., K. Huang, N. Lydeen, Z. Manthos, S. Knapp and F. M. Hay-Chapman, 2021: Projected hydroclimate changes driven by carbon dioxide trends and vegetation modeling in CMIP6. *Earth's Future*, (in review), preprint doi: 10.1002/essoar.10506162.1.

>>>> Schumacher, D. L., J. Keune, P. A. Dirmeyer and D. G. Miralles, 2021: Drought self-propagation in drylands through moisture recycling. *Nature Geosci.*, (in revision).

>>>> Seo, E., and P. A. Dirmeyer, 2021: Improving the ESA CCI daily soil moisture time series with physically-based land surface model datasets using a Fourier time-filtering method. *J. Hydrometeor.*, (submitted).

>>>> Simon, J. S., A. D. Bragg, P. A. Dirmeyer and N. W. Chaney, 2021: Semi-coupling of a field-scale resolving land-surface model and WRF-LES to investigate the influence of land-surface heterogeneity on cloud development. *J. Adv. Mod. Earth Sys.* (submitted), preprint doi: 10.1002/essoar.10507168.1.

**2021**

**J190.** Dirmeyer, P. A., G. Balsamo, E. M. Blyth, R. Morrison, and H. M. Cooper, 2021: Land-atmosphere interactions may have exacerbated the drought and heatwave over northern Europe during summer 2018. *AGU Advances*, **2**, e2020AV000283, doi: 10.1029/2020AV000283.

**J189.** Abdolghafoorian, A., and P. A. Dirmeyer, 2021: Validating the land-atmosphere coupling behavior in weather and climate models using observationally-based global products. *J. Hydrometeor.*, **22**, 1507–1523, doi: 10.1175/JHM-D-20-0183.1.

**J188.** Benson, D. O., and P. A. Dirmeyer, 2021: Characterizing the relationship between temperature and soil moisture extremes and their role in the exacerbation of heatwaves over the contiguous United States. *J. Climate*, **34**, 2175–2187, doi: 10.1175/JCLI-D-20-0440.1.

**J187.** Hsu, H., and P. A. Dirmeyer, 2021: Nonlinearity and multivariate dependencies in land-atmosphere coupling. *Water Resour. Res.*, **57**, e2020WR028179, doi: 10.1029/2020WR028179.

**2020**

**J186.** Dirmeyer, P. A., and T. W. Ford, 2020: A technique for seamless forecast validation from weather to monthly time scales. *Mon. Wea. Rev.*, **148**, 3589–3603, doi: 10.1175/MWR-D-19-0076.1.

**J185.** Chen, L., and P. A. Dirmeyer, 2020: Reconciling the disagreement between observed and simulated temperature responses to deforestation. *Nature Comm.*, **11**, 202, doi: 10.1038/s41467-019-14017-0.

**J184.** Chen, L., and P. A. Dirmeyer, 2020: Distinct impacts of land use and land management on summer temperatures. *Front. Earth Sci.*, **8**:245, doi: 10.3389/feart.2020.00245.

**J183.** Dong, J., P. A. Dirmeyer, F. Lei., M. C. Anderson, T. R. H. Holmes, C. Hain and W. T. Crow, 2020: Soil evaporation stress determines soil moisture-evapotranspiration coupling strength in land surface modeling. *Geophys. Res. Lett.*, **47**, e2020GL090391, doi: 10.1029/2020GL090391.

**J182.** Mariotti, A., C. Baggett, E. Barnes, E. Becker, A. Butler, D. C. Collins, P. A. Dirmeyer, L. Ferranti, N. C. Johnson, J. Jones, B. P. Kirtman, A. L. Lang, A. Molod, M. Newman, A. W. Robertson, S. Schubert, D. E. Waliser, and J. Albers, 2020: Windows of opportunity for skillful forecasts subseasonal to seasonal and beyond. *Bull. Amer. Meteor. Soc.*, **101**, E608–E625, doi: 10.1175/BAMS-D-18-0326.1.

**J181.** Merryfield, W. J., J. Baehr, L. Batté, E. J. Becker, A. H. Butler, C. A. S. Coelho, G. Danabasoglu, P. A. Dirmeyer, F. J. Doblas-Reyes, D. I. V. Domeisen, L. Ferranti, T. Ilynia, A. Kumar, W. A. Müller, M. Rixen, A. W. Robertson, D. M. Smith, Y. Takaya, M. Tuma, F. Vitart, C. J. White, M. S. Alvarez, C. Ardilouze, H. Attard, C. Baggett, M. A. Balmaseda, A. F. Beraki, P. S. Bhattacharjee, R. Bilbao, F. M. de Andrade, M. J. DeFlorio, L. B. Díaz, M. Azhar

Ehsan, G. Fragkoulidis, S. Grainger, B. W. Green, M. C. Hell, J. M. Infanti, K. Isensee, T. Kataoka, B. P. Kirtman, N. P. Klingaman, J.-Y. Lee, K. Mayer, R. McKay, J. V. Mecking, D. E. Miller, N. Neddermann, C. H. J. Ng, A. Ossó, K. Pankatz, K. Pegion, G. C. Recalde-Coronel, A. Reintges, C. Renkl, B. Solaraju-Murali, A. Spring, C. Stan, Y. Q. Sun, C. R. Tozer, N. Vigaud, S. Woolnough, and S. Yeager, 2020: Current and emerging developments in subseasonal to decadal prediction. *Bull. Amer. Meteor. Soc.*, **101**, E869–E896, doi: 10.1175/BAMS-D-19-0037.1.

**J180.** Shin, C.-S., B. Huang, P. A. Dirmeyer, S. Halder, and A. Kumar, 2020: Impact of land initial state uncertainty on subseasonal surface air temperature prediction in CFSv2 reforecasts. *J. Hydrometeorol.*, **21**, 2101–2121, doi: 10.1175/JHM-D-20-0024.1.

**J179.** Shin, C.-S., B. Huang, P. A. Dirmeyer, S. Halder, and A. Kumar, 2020: Sensitivity of US drought prediction skill to land initial states. *J. Hydrometeorol.*, **21**, 2793–2811, doi: 10.1175/JHM-D-20-0025.1.

**J178.** Wu, J., and P. A. Dirmeyer, 2020: Drought demise attribution over CONUS. *J. Geophys. Res.*, **125**, e2019JD031255, doi: 10.1029/2019JD031255.

#### **2019**

**J177.** Chen, L. and P. A. Dirmeyer, 2019: The relative importance among anthropogenic forcings of land use/land cover change in affecting temperature extremes. *Climate Dyn.*, **52**, 2269–2285, doi: 10.1007/s00382-018-4250-z.

**J176.** Chen, L., and P. A. Dirmeyer, 2019: Global observed and modeled impacts of irrigation on surface temperature. *Intl. J. Climatol.*, **39**, 2587–2600, doi: 10.1002/joc.5973.

**J175.** Chen, L., and P. A. Dirmeyer, 2019: Differing responses of the diurnal cycle of land surface and air temperatures to deforestation. *J. Climate*, **32**, 7067–7079, doi: 10.1175/JCLI-D-19-0002.1.

**J174.** Mariotti, A., E. Barnes, E. K. M. Chang, A. Lang, P. Dirmeyer, K. Pegion, and D. Barrie, 2019: Bridging the weather-to-climate prediction gap: progress by the NOAA S2S Prediction Task Force. *Eos*, **100**, doi: 10.1029/2019EO115819.

**J173.** Shukla, R. P., B. Huang, P. A. Dirmeyer, J. L. Kinter, C.-S. Shin, and L. Marx, 2019: Climatological Influence of Eurasian winter surface conditions on the Asian and Indo-Pacific summer circulation in the CFSv2 seasonal reforecasts. *Intl. J. Climatol.*, **39**, 3431–3453, doi: 10.1002/joc.6029.

**J172.** Shukla, R. P., B. Huang, P. A. Dirmeyer, J. L. Kinter, 2019: The influence of summer deep soil temperature on early winter snow conditions in Eurasia in the CFSv2 simulation. *J. Geophys. Res.*, **124**, 9062–9077, doi: 10.1029/2019JD030279.

**J171.** Wei, J., and P. A. Dirmeyer, 2019: Sensitivity of land precipitation to surface evapotranspiration: a nonlocal perspective based on water vapor transport. *Geophys. Res. Lett.*, **46**, 12,588–12,597, doi: 10.1029/2019GL085613.

#### **2018**

**J170.** Dirmeyer, P. A., S. Halder, and R. Bombardi, 2018: On the harvest of predictability from land states in a global forecast model. *J. Geophys. Res.*, **123**, 13,111–13,127, doi: 10.1029/2018JD029103.

**J169.** Dirmeyer, P. A., L. Chen, J. Wu, C.-S. Shin, B. Huang, B. Cash, M. Bosilovich, S. Mahanama, R. D. Koster, J. A. Santanello Jr., M. B. Ek, G. Balsamo, E. Dutra and D. M. Lawrence, 2018: Verification of land-atmosphere coupling in forecast models, reanalyses and land surface models using flux site observations. *J. Hydrometeorol.*, **19**, 375–392, doi: 10.1175/JHM-D-17-0152.1.

**J168.** Dirmeyer, P. A., and H. E. Norton, 2018: Indications of surface and sub-surface hydrologic properties from SMAP soil moisture retrievals. *Hydrology*, **5**, 36, doi: 10.3390/hydrology5030036.

**J167.** Balsamo, G., A. Agusti-Panareda, C. Albergel, G. Arduini, A. Beljaars, J. Bidlot, E. Blyth, N. Bousserez, S. Bousetta, A. Brown, R. Buizza, C. Buontempo, E. M. Blyth, F. Chevallier, M. Choulga, H. Cloke, M. F. Cronin, M. Dahoui, P. De Rosnay, P. A. Dirmeyer, M. Drusch, E. Dutra, M. B. Ek, P. Gentine, H. Hewett, S. P. E. Keeley, Y. Kerr, S. Kumar, C. Lupu, J.-F. Mahfouf, J. McNorton, S. Mecklenburg, K. Morgensen, J. Muñoz-Sabater, R. Orth, F. Rabier, R. Reichle, B. Ruston, F. Pappenberger, I. Sandu, S. I. Seneviratne, S. Tietsche, I. F. Trigo, R. Uijenoet, N. Wedi, R. I. Woolway, and X. Zeng, 2018: Satellite and in situ observations for advancing global earth surface modelling: A review. *Remote Sens.*, **10**, 2038, doi: 10.3390/rs10122038.

**J166.** Chen, L., P. A. Dirmeyer, Z. Guo and N. M. Schultz, 2018: Pairing FLUXNET sites to validate model representations of land use/land cover change. *Hydrol. Earth Sys. Sci.*, **22**, 111–125, doi: 10.5194/hess-22-111-2018.

- J165.** Ford, T. W., P. A. Dirmeyer and D. O. Benson, 2018: Evaluation of heat wave forecasts seamlessly across S2S time scales: skill attribution and the role of land-atmosphere interactions. *npj Climate Atmos. Sci.*, **1**:20, doi: 10.1038/s41612-018-0027-7.
- J164.** Halder, S., P. A. Dirmeyer, L. Marx and J. L. Kinter III, 2018: Impact of land surface initialization and land-atmosphere coupling on the prediction of the Indian summer monsoon with the CFSv2. *Front. Env. Sci.*, **5**:92, doi: 10.3389/fenvs.2017.00092.
- J163.** Hoyos, I. C., F. Dominguez, J. E. Cañón-Barriga, J. A. Martínez, R. Nieto, L. Gimeno, and P. A. Dirmeyer, 2017: Moisture origin and transport processes in Colombia, northern South America. *Climate Dyn.*, **50**, 971-990, doi: 10.1007/s00382-017-3653-6.
- J162.** Kumar, S. V., P. A. Dirmeyer, C. D. Peters-Lidard, and R. Bindlish, 2018: Information theoretic evaluation of satellite soil moisture retrievals. *Remote Sens. Env.*, **204**, 392-400, doi: 10.1016/j.rse.2017.10.016.
- J161.** Santanello, J. A., P. A. Dirmeyer, C. R. Ferguson, K. L. Findell, A. B. Tawfik, A. Berg, M. B. Ek, P. Gentine, B. Guillod, C. van Heerwaarden, J. Roundy, and V. Wulfmeyer, 2018: Land-atmosphere interactions: The LoCo perspective. *Bull. Amer. Meteor. Soc.*, **99**, 1253-1272, doi: 10.1175/BAMS-D-17-0001.1.
- J160.** Wei, J., P. A. Dirmeyer, Z.-L. Yang and H. Chen, 2018: Effect of land model ensemble versus coupled model ensemble on the simulation of precipitation climatology and variability. *Theor. Appl. Climatol.*, **134**, 793-800, doi: 10.1007/s00704-017-2310-7.
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- J159.** Dirmeyer, P. A., and S. Halder, 2017: Application of the land-atmosphere coupling paradigm to the operational Coupled Forecast System (CFSv2). *J. Hydrometeor.*, **18**, 85-108, doi: 10.1175/JHM-D-16-0064.1.
- J158.** Chen, L. and P. A. Dirmeyer, 2017: Impacts of land use/land cover change on afternoon precipitation over North America. *J. Climate*, **30**, 2121-2140, doi: 10.1175/JCLI-D-16-0589.1.
- J157.** Chen, L., P. A. Dirmeyer, A. Tawfik and D. M. Lawrence, 2017: Sensitivities of land cover-precipitation feedback to convective triggering. *J. Hydrometeor.*, **18**, 2265-2284, doi: 10.1175/JHM-D-17-0011.1.
- J156.** Huang, B., C.-S. Shin, J. Shukla, L. Marx, M. Balmaseda, S. Halder, P. A. Dirmeyer, and J. L. Kinter III, 2017: Reforecasting the ENSO events in the past fifty-seven years (1958-2014). *J. Climate*, **30**, 7669-7693, doi: 10.1175/JCLI-D-16-0642.1.
- J155.** Koster, R. D., A. K. Betts, P. A. Dirmeyer, M. Bierkens, K. E. Bennett, S. J. Déry, J. Evans, R. Fu, F. Hernandez, L. R. Leung, X. Liang, M. Masood, H. Savenije, G. Wang, and X. Yuan, 2017: Hydroclimatic variability and predictability: A survey of recent research. *Hydrol. Earth Sys. Sci.*, **21**, 3777-3798, doi: 10.5194/hess-21-3777-2017.
- J154.** Marotzke, J., C. Jakob, S. Bony, P. A. Dirmeyer, P. O’Gorman, E. Hawkins, S. Perkins-Kirkpatrick, C. Le Quéré, S. Nowicki, K. Paulavets, S. I. Seneviratne, B. Stevens, and M. Tuma, 2017: Climate research must sharpen its view. *Nature Climate Change*, doi: 10.1038/nclimate3206.
- J153.** Tawfik, A. B., D. M. Lawrence, and P. A. Dirmeyer, 2017: Representing sub-grid convective initiation in the Community Earth System Model. *J. Adv. Mod. Earth Sys.*, **9**, doi: 10.1002/2016MS000866.
- J152.** Wada, Y., M. F. P. Bierkens, P. A. Dirmeyer, A. van Dijk, T. van Emmerik, J. S. Famiglietti, N. Hanasaki, M. Konar, J. Liu, H. M. Schmied, M. H.J. Van Huijgevoort, H. A. J. Van Lanen, T. Oki, Y. Pokhrel, A. de Roo, M. Sivapalan, T. J. Troy, C. J. Vörösmarty, N. Wanders, and H. Wheeler, 2017: Human-water interface in hydrological modeling: current status and future directions. *Hydrol. Earth Sys. Sci.*, **21**, 4169-4193, doi: 10.5194/hess-21-4169-2017.
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- J151.** Dirmeyer, P. A., and S. Halder, 2016: Sensitivity of surface fluxes and atmospheric boundary layer properties to initial soil moisture variations in CFSv2. *Wea. Fcst.*, **31**, 1973-1983, doi: 10.1175/WAF-D-16-0049.1.
- J150.** Dirmeyer, P. A., J. Wu, H. E. Norton, W. A. Dorigo, S. M. Quiring, T. W. Ford, J. A. Santanello Jr., M. G. Bosilovich, M. B. Ek, R. D. Koster, G. Balsamo, and D. M. Lawrence, 2016: Confronting weather and climate models with observational data from soil moisture networks over the United States. *J. Hydrometeor.*, **17**, 1049-1067, doi: 10.1175/JHM-D-15-0196.1.
- J149.** Dirmeyer, P. A., L. Yu, S. Amini, A. D. Crowell, A. Elders, and J. Wu, 2016: Projections of the shifting envelope of water cycle variability. *Climatic Change*, **136**, 587-600, doi: 10.1007/s10584-016-1634-0.

- J148.** Badger, A. M., and P. A. Dirmeyer, 2016: Local and remote non-linearities due to spatial distribution of Amazon deforestation. *J. Geophys. Res.*, **121**, 9033–9047, doi: 10.1002/2015JD024013.
- J147.** Badger, A. M., and P. A. Dirmeyer, 2016: Remote tropical and sub-tropical responses to Amazon deforestation. *Climate Dyn.*, **46**, 3057–3066, doi: 10.1007/s00382-015-2752-5.
- J146.** Bombardi, R. J., A. B. Tawfik, J. V. Manganello, L. Marx, C.-S. Shin, E. K. Schneider, P. A. Dirmeyer, and J. L. Kinter III, 2016: The Heated Condensation Framework as a convective trigger in the NCEP Climate Forecast System version 2. *J. Adv. Mod. Earth Sys.*, **8**, doi: 10.1002/2016MS000668.
- J145.** Chen, L. and P. A. Dirmeyer, 2016: Adapting observationally-based metrics of biogeophysical feedback from land cover change to climate modeling. *Env. Res. Lett.*, **11**, 034002, doi: 10.1088/1748-9326/11/3/034002.
- J144.** Halder, S., and P. A. Dirmeyer, 2016: Relation of Eurasian snow cover and Indian summer monsoon rainfall: Importance of the delayed hydrological effect. *J. Climate*, **30**, 1273–1289, doi: 10.1175/JCLI-D-16-0033.1.
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- J142.** Haughton, N., G. Abramowitz, A. J. Pitman, D. Or, M. J. Best, H. R. Johnson, G. Balsamo, A. Boone, M. Cuntz, B. Decharme, P. A. Dirmeyer, J. Dong, M. Ek, Z. Guo, V. Haverd, B. J. van den Hurk, G. S. Nearing, B. Pak, C. Peters-Lidard, J. A. Santanello Jr., L. Stevens and N. Vuichard, 2016: The plumbing of land surface models: why are models performing so poorly? *J. Hydrometeor.*, **17**, 1705–1723, doi: 10.1175/JHM-D-15-0171.1.
- J141.** Kumar, S., F. Zwiers, P. A. Dirmeyer, D. M. Lawrence, J. Sheffield, R. Shrestha, and A. Werner, 2016: Terrestrial contribution to the heterogeneity in hydrological changes under global warming. *Water Resour. Res.*, **52**, 3127–3142, doi: 10.1002/2016WR018607.
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- J139.** Xue, Y, F. De Sales, W. K-M Lau, A. Boone, K.-M. Kim, C. R. Mechoso, G. Wang, F. Kucharski, K. Schiro, M. Hosaka, S. Li, L. M. Druyan, I. Seidou Sanda, W. Thiaw, N. Zeng, R. E. Comer, Y.-K. Lim, S. Mahanama, G. Song, Y. Gu, S. M Hagos, M. Chin, S. Schubert, P. Dirmeyer, L. R. Leung, E. Kalnay, A. Kitoh, C.-H. Lu, N. M. Mahowald, Z. Zhang, 2016: West African monsoon decadal variability and drought and surface-related forcings: Second West African Monsoon Modeling and Evaluation Project Experiment (WAMME II). *Climate Dyn.*, **47**, 3517–3545, doi: 10.1007/s00382-016-3224-2.
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- J137.** Best, M. J., G. Abramowitz, H. R. Johnson, A. J. Pitman, G. Balsamo, A. Boone, M. Cuntz, B. Decharme, P. A. Dirmeyer, J. Dong, M. Ek, Z. Guo, V. Haverd, B. J. J. van den Hurk, G. S. Nearing, B. Pak, C. Peters-Lidard, J. A. Santanello Jr., L. Stevens, and N. Vuichard, 2015: The plumbing of land surface models: benchmarking model performance. *J. Hydrometeor.*, **16**, 1425–1442, doi: 10.1175/JHM-D-14-0158.1.
- J136.** Bombardi, R. J., E. K. Schneider, L. Marx, S. Halder, B. Singh, A. B. Tawfik, P. A. Dirmeyer and J. L. Kinter III, 2015: Improvements in the representation of the Indian summer monsoon in the NCEP Climate Forecast System version 2. *Climate Dyn.*, **45**, 2485–2498, doi: 10.1007/s00382-015-2484-6.
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#### **2014**

**J130.** 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.

**J129.** Dirmeyer, P. A., Z. Wang, M. J. Mbuh 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.

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**J127.** 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.

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#### **2013**

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**J120.** Dirmeyer, P. A., Y. Jin, B. Singh, and X. Yan, 2013: Evolving land-atmosphere interactions over North America from CMIP5 simulations. *J. Climate*, **26**, 7313–7327, doi: 10.1175/JCLI-D-12-00454.1.

**J119.** Dirmeyer, P. A., S. Kumar, M. J. Fennessy, E. L. Altshuler, T. DelSole, Z. Guo, B. Cash and D. Straus, 2013: Model estimates of land-driven predictability in a changing climate from CCSM4. *J. Climate*, **26**, 8495–8512, doi: 10.1175/JCLI-D-13-00029.1.

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- B7.** Randall, D. A. R. A. Wood, S. Bony, R. Colman, T. Fichet, J. Fyfe, V. Kattsov, A. Pitman, J. Shukla, J. Srinivasan, R. J. Stouffer, A. Sumi, K. E. Taylor, K. AchutaRao, R. Allan, A. Berger, H. Blatter, A. Boone, C. Bretherton, A. Broccoli, V. Brovkin, W. Cai, M. Claussen, P. Dirmeyer, C. Doutriaux, H. Drange, J.-L. Dufresne, S. Emori, P. Forster, A. Frei, A. Ganopolski, P. Gent, P. Gleckler, H. Goosse, R. Graham, J. M. Gregory, R. Gudgel, A. Hall, S. Hallegatte, H. Hasumi, A. Henderson-Sellers, H. Hendon, K. Hodges, M. Holland, A. A. M. Holtslag, E. Hunke, P. Huybrechts, W. Ingram, F. Joos, B. Kirtman, S. Klein, R. Koster, P. Kushner, J. Lanzante, M. Latif, N.-C. Lau, M. Meinshausen, A. Monahan, J. M. Murphy, T. Osborn, T. Pavlova, V. Petoukhov, T. Phillips, S. Power, S. Rahmstorf, S. C. B. Raper, H. Renssen, D. Rind, M. Roberts, A. Rosati, C. Schär, A. Schmittner, J. Scinocca, D. Seidov, A. G. Slater, J. Slingo, D. Smith, B. Soden, W. Stern, D. A. Stone, K. Sudo, T. Takemura, G. Tselioudis, M. Webb, M. Wild, 2007: Climate models and their evaluation. [**Chapter** in: *Climate Change 2007: The physical science basis. Contribution of Working Group I to the Fourth Assessment Report of the IPCC*, Cambridge University Press, 589-662.
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- N31.** Dirmeyer, P. A., 2019: Capturing the dynamism of plant roots in models. *Editors' Highlights, Eos*, **100**, <https://eos.org/editor-highlights/capturing-the-dynamism-of-plant-roots-in-models>.
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- N26.** Dirmeyer, P. A., 2018: Wet soils elevate nighttime temperatures. *Editors' Highlights, Eos*, **99**, <https://eos.org/editor-highlights/wet-soils-elevate-nighttime-temperatures>.
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- N14.** Santanello, J. A., C. Ferguson, M. Ek, P. Dirmeyer, O. Tuinenburg, C. Jacobs, C. van Heerwaarden, K. Findell, P. Gentine, and B. Lintner, 2011: Local land-atmosphere coupling (LoCo) research: Status and results. *GEWEX News*, **21**(4), 7-9.
- N13.** Dirmeyer, P. A., Z. Guo and J. Wei, 2010: Building the case for (or against) land-driven climate predictability. *iLEAPS Newsletter*, **9**, 14-17.
- N12.** Dirmeyer, P. A., 2004: Soil moisture - muddy prospects for a clear definition. *GEWEX News*, **14**, No. 3, 11-12.
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- N6.** *Lead Author:* International GEWEX Project Office, 2002: GSWP-2: The Second Global Soil Wetness Project Science and Implementation Plan. IGPO Publication Series No. 37, 75 pp.
- N5.** Polcher, J., P. Cox, P. Dirmeyer, H. Dolman, H. Gupta, A. Henderson-Sellers, P. Houser, R. Koster, T. Oki, A. Pitman, and P. Viterbo, 2000: GLASS: Global land-atmosphere system study. *GEWEX News*, **10**, No 2, 3-5.
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- N3.** *Contributing Author:* International GEWEX Project Office, 1998: Land surface parameterizations / soil vegetation atmosphere transfer schemes workshop: Conclusions and Working Group Reports. IGPO Publication Series No. 31, 77 pp.
- N2.** Dirmeyer, P. A., 1997: The Global Soil Wetness Project. *GEWEX News*, **7**, No. 2, 3-6.
- N1.** *Contributing Author:* International GEWEX Project Office, 1995: Global Soil Wetness Project, 47 pp.

### **Invited Seminars:**

- S36.** "The Role of Land-Atmosphere Feedbacks in Weather-to-Subseasonal Predictability", NOAA Physical Sciences Lab seminar, online, 31 August 2021.
- S35.** "The Role of Land-Atmosphere Feedbacks in S2S Predictability", NCAR Advanced Study Program Workshop on Subseasonal-to-Seasonal Science and Predictions, online, 5 August 2021.
- S34.** "Land Surface and S2S Predictions", NCAR Advanced Study Program Summer Colloquium on Subseasonal-to-Seasonal Science and Predictions, online, 20 July 2021.
- S33.** "Seamless forecast construction and validation across subseasonal time scales", International Subseasonal-to-Seasonal (S2S) Prediction Project webinar, 28 October 2020.
- S32.** "Indications of surface and sub-surface hydrologic properties from SMAP", SMAP DAART/ST meeting, online, 21 October 2020.

- S31.** "The role of the land surface in weather and climate" National Center for Atmospheric Research, Climate and Global Dynamics Laboratory, Boulder, CO, USA, 4 September 2018.
- S30.** "The emerging role of the land surface in weather and climate prediction" European Centre for Medium-range Weather Forecasts, Reading, UK, 25 July 2018.
- S29.** "The emerging role of the land surface in weather and climate prediction" Centre for Ecology and Hydrology, Wallingford, UK, 13 July 2018.
- S28.** "Land-atmosphere interactions in nature and models" AOES Seminar Series, George Mason University, 25 October 2017.
- S27.** "Land-atmosphere interactions in nature and models" West Virginia University Geography Colloquium series, , 6 October 2017.
- S26.** "Land-atmosphere interactions in models and observations" NASA Goddard Space Flight Center, Global Modeling and Data Assimilation Office, 23 May 2017.
- S25.** "What water vapor back-trajectory analysis can tell us about climate variability" Invited Senior Leonardo Lecture, From Evaporation to Precipitation: The Atmospheric Moisture Transport, 2016 EGU Leonardo Conference, Ourense, Spain, 25-27 October 2016.
- S24.** "Land-atmosphere feedbacks" ICTP-IITM-COLA Targeted Training Activity (TTA): Towards Improved Monsoon Simulations, International Centre for Theoretical Physics, Trieste, Italy, 13-17 June 2016.
- S23.** "The Land-Atmosphere Coupling Paradigm in the Operational NWS Forecast Model: Consequences for Hydrologic Predictability." Observations and Modeling Across Scales: Symposium in Honor of Eric Wood, Princeton, New Jersey, USA, 2-3 June 2016.
- S22.** "Land surface processes and interactions with the atmosphere" ECMWF Annual Seminar, Reading, UK, 1-4 September 2015.
- S21.** "Climate Model Perspectives" Alpine Summer School, Course XXIII on Land-Atmosphere Interactions, Valsavaranche, Valle d'Aosta, Italy, 22 June – 1 July 2015.
- S20.** "Metrics in Land-Atmosphere Coupling" Alpine Summer School, Course XXIII on Land-Atmosphere Interactions, Valsavaranche, Valle d'Aosta, Italy, 22 June – 1 July 2015.
- S19.** "Why Water in the Soil Now Matters for Weather This Summer" Mason Water Forum Seminar, George Mason University, Fairfax, Virginia, 3 April 2015
- S18.** "Drought forecasts and land-atmosphere interactions in the NOAA climate model" AOES Climate Dynamics seminar, George Mason University, 6 November 2013.
- S17.** "Historical and future trends in land-atmosphere interactions from CMIP5" Gordon Research Conference on Radiation and Climate, New London, NH, USA, 9 July 2013.
- S16.** "Connections between precipitation extremes and evaporation sources" Mini-symposium on land-atmosphere interactions, Wageningen University, Netherlands, 15 April 2013.
- S15.** "Trends in land-atmosphere interactions from CMIP5 simulations" Workshop on the Climate Dynamics of Tropical Africa, Johns Hopkins University, 15 November 2012.
- S14.** "Evaporative moisture sources for African precipitation and diagnosis of extremes" Workshop on the Climate Dynamics of Tropical Africa, Johns Hopkins University, 15 November 2012.
- S13.** "Land-Climate Interactions – Past, Present and Future" Seminar presented at the Department of Marine, Earth, & Atmospheric Sciences, North Carolina State University, 31 July 2012.
- S12.** "Land-Atmosphere Interaction and the Global Water Cycle" Seminar presented at the Department of Atmospheric, Oceanic and Earth Science, George Mason University, 5 April 2011.
- S11.** "Land-atmosphere interaction and the water cycle" Seminar presented at SEAS Colloquium in Climate Science (SCiCS), Columbia University, 3 December 2009.
- S10.** "Do Global Models Properly Represent the Feedback Between Land and Atmosphere?" Seminar presented at NASA/GSFC Climate and Radiation Branch, Greenbelt, Maryland, USA 7 September 2005.
- S9.** "The interplay between soil moisture and climate" Seminar presented at National Center for Atmospheric Research (NCAR), Boulder, Colorado, USA 10 May 2006.

- S8.** "Global Soil Wetness Products - What Can We Believe?" Seminar presented at the Department of Meteorology, University of Maryland, College Park, Maryland, USA, 16 October, 2003.
- S7.** "Land-Atmosphere Interactions and Climate Variability." Seminar presented at the Texas Center for Climate Studies, Texas A&M University, College Station, Texas, USA, 24 October, 2001.
- S6.** "The evaporative sources of moisture supplying rainfall over the central United States" Seminar presented at the Dept. of Civil Engineering, University of Maryland, 3 May 1999.
- S5.** "The Global Soil Wetness Project." Institute for Computational Sciences and Informatics seminar, George Mason University, Fairfax, Virginia, USA, 3 November 1997.
- S4.** "The Global Soil Wetness Project." NASA/GSFC Climate and Radiation Branch seminar, Greenbelt, Maryland, USA, 17 September 1997.
- S3.** "The Global Soil Wetness Project." NCEP sack lunch seminar, Camp Springs, Maryland, USA, 8 July 1997.
- S2.** "Aspects of tropical deforestation and their effects on climate." Seminar presented at the Department of Meteorology, Florida State University, Tallahassee, Florida, USA, 20 January 1994.
- S1.** "GCM studies of vegetation and climate: From drought to deforestation." Seminar presented at the Ralph M. Parsons Laboratory, Massachusetts Institute of Technology, Boston, Massachusetts, USA, 14 June 1993.

### **Conference and Workshop Presentations:**

- C238.** Simon, J., T. Waterman, F. Hay-Chapman, P. Dirmeyer, A. Bragg, and N. Chaney, 2021: An analysis of the importance of a fully-coupled atmosphere and land-surface when considering the impact of multi-scale land spatial heterogeneity on cloud development. European Geophysical Union General Assembly 2021, EGU21-13379, doi: 10.5194/egusphere-egu21-13379.
- C237.** Miralles, D. G., D. L. Schumacher, J. Keune, and P. A. Dirmeyer, 2021: Drought spatiotemporal propagation via land feedbacks. European Geophysical Union General Assembly 2021, EGU21-1505, doi: 10.5194/egusphere-egu21-1505.
- C236.** Benson, D. O., P. A. Dirmeyer, 2021: Land-atmosphere interactions in the Subseasonal Experiment project (SubX) forecast models and their role in heatwave prediction. American Meteorological Society 35th Conference on Hydrology, *Virtual*, 11.6.
- C235.** Hay-Chapman, F. M., P. A. Dirmeyer, 2021: Diagnosing sensitive land-atmosphere coupling days and investigating the impact of land surface heterogeneity on the overlying atmosphere. American Meteorological Society 35th Conference on Hydrology, *Virtual*, 4.8.
- C234.** Dong, J., P. A. Dirmeyer, F. Lei, M. C. Anderson, C. Hain, T. R. Holmes, and W. Crow, 2021: Bare soil evaporation stress determines soil moisture - evapotranspiration coupling strength bias in land surface modeling. American Meteorological Society 35th Conference on Hydrology, *Virtual*, 9B5.
- C233.** Dirmeyer, P. A., F. M. Hay-Chapman, K. Huang, S. Knapp, M. Korendyke, N. Lydeen and Z. Manthos, 2020: Evaluation of land-atmosphere coupling and the Budyko relationship in CMIP6 models American Geophysical Union Fall Meeting, *Virtual*, A052-07.
- C232.** Abdolghafoorian, A., and P. A. Dirmeyer, 2020: Detecting the magnitude and direction of information flow between land and atmosphere. American Geophysical Union Fall Meeting, *Virtual*, H199-0006.
- C231.** Benson, D. O., and P. A. Dirmeyer, 2020: Temperature and extreme soil moisture relationships in Subseasonal Experiment project (SubX) forecast models and their impact on heatwave prediction. American Geophysical Union Fall Meeting, *Virtual*, A209-07.
- C230.** Hsu, H., and P. A. Dirmeyer, 2020: Nonlinearity and multivariate dependencies in land-atmosphere coupling. American Geophysical Union Fall Meeting, *Virtual*, H199-0019.
- C229.** Simon, J., P. A. Dirmeyer, T. Waterman, F. M. Hay-Chapman, G. G. Katul, and N. W. Chaney, 2020: Semi-coupling of a field-scale resolving land-surface model and WRF-LES to investigate the influence of land-surface heterogeneity on PBL development. American Geophysical Union Fall Meeting, *Virtual*, A080-04.
- C228.** Dong, J., P. A. Dirmeyer, F. Lei, M. B. Anderson, T. Holmes, C. Hain, and W. Crow, 2020: Bare soil evaporation stress determines soil moisture - evapotranspiration coupling strength bias in land surface modeling. American Geophysical Union Fall Meeting, *Virtual*, H199-0003.



- C227.** Dirmeyer, P. A., and J. Santanello, 2020: Soil Moisture as Regulator of Water and Energy Cycle Feedbacks between Land and Atmosphere. SMAP Science Team Meeting #14, online.
- C226.** Simon, J., K. Ghannam, G. I. Katul, P. Dirmeyer, K. Findell, J. Santanello, and N. Chaney, 2020: An investigation into the influence of high-resolution land-surface heterogeneity on atmospheric dynamics. European Geophysical Union, Conference on Atmospheric Science, online, AS2.6 EGU2020-20762.
- C225.** Dirmeyer, P. A., J. Santanello, K. Findell, A. Abdolghafoorian, and T. Lawston, 2020: CLASP Virtual Project Meeting Diagnostics Group Report, Coupling of Land and Atmospheric Subgrid Parameterizations (CLASP) Project Meeting, online.
- C224.** Dirmeyer, P. A., G. Balsamo, E. M. Blyth, R. Morrison, and H. M. Cooper, 2020: Land-atmosphere interactions may have exacerbated the drought and heat wave over northern Europe during summer 2018. American Meteorological Society Fifth Symposium on US-International Partnerships, Boston, MA, USA, 3.4.
- C223.** Benson, D. O., and P. A. Dirmeyer, 2020: How dry soil moisture extremes exacerbate heat waves over the contiguous United States. American Meteorological Society 33rd Conference on Climate Variability and Change, Boston, MA, USA, J21.3.
- C222.** Hsu, H., and P. A. Dirmeyer, 2020: Using temporal information partitioning networks (TIPnets) to assess land-atmosphere coupling. American Meteorological Society 34rd Conference on Hydrology, Boston, MA, USA, 1B.6.
- C221.** Ford, T. W., and P. A. Dirmeyer, 2019: Diagnostic verification of heat wave forecasts using SubX. American Geophysical Union Fall Meeting, San Francisco, CA, USA, A34E-05.
- C220.** Dirmeyer, P. A., D. O. Benson, G. Balsamo, E. M. Blyth, R. Morrison, and H. M. Cooper, 2019: Land states, feedbacks and sensitivities during the 2018 drought and heatwave in Northern Europe. Workshop on Land-Atmosphere Feedbacks and Dry Extremes Under a Changing Climate (Dry-2-Dry), Ghent, Belgium.
- C219.** Dirmeyer, P. A., and T. W. Ford, 2019: Achieving seamless verification across sub-seasonal time scales from weather to climate. Workshop on Predictability, Dynamics and Applications Research Using the TIGGE and S2S Ensembles. European Centre for Medium-Range Weather Forecasts, Reading, UK.
- C218.** Dirmeyer, P. A., 2019: Land-atmosphere coupling metric applications in arid and semiarid regions (invited). American Meteorological Society 33rd Conference on Hydrology, Phoenix, AZ, USA, 3B.2.
- C217.** Chen, L., and P. A. Dirmeyer, 2019: Response in diurnal cycle of land surface and air temperature to deforestation (invited). American Meteorological Society 32nd Conference on Climate Variability and Change, Phoenix, AZ, USA, 14C.1.
- C216.** Mariotti, A., E. A. Barnes, E. K. M. Chang, A. L. Lang, P. A. Dirmeyer, K. Pegion, and D. Barrie, 2019: Bridging the weather-to-climate prediction gap: Progress by the NOAA S2S Prediction Task Force. American Meteorological Society 33rd Conference on Hydrology, Phoenix, AZ, USA, 11B.3.
- C215.** Shin, C.-S., B. Huang, P. A. Dirmeyer, and A. Kumar, 2019: Exploring the sensitivity of US drought prediction skill to land initial states. American Meteorological Society 33rd Conference on Hydrology, Phoenix, AZ, USA, J9.4.
- C214.** Abolafia-Rosenzweig, R., B. Livneh, Y. Xia, D. Mocko, P. A. Dirmeyer, S. V. Kumar, C. D. Peters-Lidard, H. Wei, and J. Kain, 2019: Comparing operational NLDAS-2 and experimental NLDAS-3 soil moisture with observational soil moisture data from in-situ networks and SMAP remote sensing. American Meteorological Society 33rd Conference on Hydrology, Phoenix, AZ, USA, 2B.3.
- C213.** Dirmeyer, P. A., 2018: Exploiting land surface data for sub-seasonal prediction (invited). American Geophysical Union Fall Meeting, Washington, DC, USA, A32D-02.
- C212.** Dirmeyer, P. A., 2018: Synthesizing water and energy cycle data for coupling metrics to understand land-atmosphere interactions. American Geophysical Union Fall Meeting, Washington, DC, USA, H33K-2229.
- C211.** Norton, H. E., and P. A. Dirmeyer, 2018: Parameterizing karst for implementation in land surface models: A research-to-operations framework. American Geophysical Union Fall Meeting, Washington, DC, USA, H11B-05.
- C210.** Wu, J., and P. A. Dirmeyer, 2018: Drought demise quantification and attribution using the Community Earth System Model Large Ensemble (CESM-LE) and Modern-Era Retrospective Analysis for Research and Applications version 2 (MERRA2). American Geophysical Union Fall Meeting, Washington, DC, USA, H51G-1384.

- C209.** Chen, L., and P. A. Dirmeyer, 2018: Reconciling the disagreement between observed and simulated temperature responses to deforestation. American Geophysical Union Fall Meeting, Washington, DC, USA, GC14B-06.
- C208.** Mariotti, A., E. A. Barnes, E. K. M. Change, A. A. L. Lang, P. A. Dirmeyer, K. Pegion, and D. Barrie, 2018: Bridging the weather-to-climate prediction gap: Progress by the NOAA S2S Prediction Task Force. American Geophysical Union Fall Meeting, Washington, DC, USA, A41L-3150.
- C207.** Ford, T., and P. A. Dirmeyer, 2018: Land-atmosphere interactions and subseasonal heat wave forecasts from a suite of climate forecast models. American Geophysical Union Fall Meeting, Washington, DC, USA, A33E-04.
- C206.** Shin, C.-S., B. Huang, P. A. Dirmeyer, and A. Kumar, 2018: H44D-04 Sensitivity of US drought prediction skill to land initial states on subseasonal to seasonal timescales. American Geophysical Union Fall Meeting, Washington, DC, USA, H44D-04.
- C205.** Shukla, R. P., B. Huang, P. A. Dirmeyer, J. L. Kinter III, C.-S. Shin, and L. Marx, 2018: The Climatological Influence of Eurasian winter surface conditions on the summer circulation in the Asian continent and Indo-Pacific in the CFSv2 seasonal reforecasts. American Geophysical Union Fall Meeting, Washington, DC, USA, A23J-3024.
- C204.** Huang, B., C.-S. Shin, P. Dirmeyer and A. Kumar, 2018: Evaluating predictive skill and predictability of the US seasonal precipitation using CFSv2 reforecasts of sixty years (1958-2017). American Geophysical Union Fall Meeting, Washington, DC, USA, H51G-1383.
- C203.** Dirmeyer, P. A., 2018: Indications of surface and sub-surface hydrologic properties from SMAP. 5th Satellite Soil Moisture Validation and Application Workshop, Fairfax, VA, USA. 5-01.
- C202.** Dirmeyer, P. A., 2018: The land surface "sweet spot" between weather and climate (keynote). International Conferences on Subseasonal to Decadal Prediction, Boulder, CO, USA, AS-01.
- C201.** Ford, T., and P. A. Dirmeyer, 2018: Seamless transition from weather to climate – A method for forecast definition and validation. International Conferences on Subseasonal to Decadal Prediction, Boulder, CO, USA, P-A3-06.
- C200.** Dirmeyer, P. A., 2018: Land surface models coupled to atmospheric models: Judging them as dance partners. Robert Dickinson Symposium on Earth System Modeling: Past, Present and Future, Austin, TX, USA.
- C199.** Dirmeyer, P. A., 2018: Confronting forecast models, reanalyses and land surface models with global remote sensing estimates of land-atmosphere coupling (invited). 8th GEWEX Open Science Conference, Canmore, AB, Canada.
- C198.** Wu, J., and P. A. Dirmeyer, 2018: A new framework for determining causes of drought demise over CONUS. 8th GEWEX Open Science Conference, Canmore, AB, Canada.
- C197.** Chen, L., and P. A. Dirmeyer, 2018: Observed and Simulated Impacts of Global Irrigation on Local Surface Temperature. 8th GEWEX Open Science Conference, Canmore, AB, Canada.
- C196.** Dirmeyer, P. A., 2018: Land-atmosphere interactions are a coupled model development problem. 2018 - US Climate Modeling Summit; Land-Atmosphere Interactions and Extremes Workshop, College Park, MD, USA.
- C195.** Dirmeyer, P. A. and S. Halder, 2017: On the harvest of predictability from land surface states. American Geophysical Union Fall Meeting, New Orleans, LA, USA, H42B-04.
- C194.** Chen, L. and P. A. Dirmeyer, 2017: Observed Local Impacts of Global Irrigation on Surface Temperature. American Geophysical Union Fall Meeting, New Orleans, LA, USA, A51C-2073.
- C193.** Ford, T., P. A. Dirmeyer and D. O. Benson, 2017: Evaluation of heat wave forecasts seamlessly across s2s time scales: skill attribution and the role of land-atmosphere interactions. American Geophysical Union Fall Meeting, New Orleans, LA, USA, A23M-01.
- C192.** Norton, H. E., P. A. Dirmeyer, M. B. Ek, H. Wei and Y. Xia, 2017: Parameterizing subsurface karst geology within the Noah Land Surface Model (LSM). American Geophysical Union Fall Meeting, New Orleans, LA, USA, H43N-08.
- C191.** Kumar, S., I. Suhr, P. A. Dirmeyer, and C. D. Peters-Lidard, 2017: Evaluating and improving the information content of satellite soil moisture measurements. American Meteorological Society 31st Conference on Hydrology, Seattle, WA, USA, 5.3.

- C190.** Tawfik, A. B., D. M. Lawrence and P. A. Dirmeyer, 2017: Dynamic scale awareness: Switching parameterized convection on at the right time. American Meteorological Society 29th Conference on Climate Variability and Change, Seattle, WA, USA, 4A.4.
- C189.** Dirmeyer, P. A., L. Chen and J. Wu, 2016: Extending the confrontation of weather and climate models from soil moisture to surface flux data. American Geophysical Union Fall Meeting, San Francisco, CA, USA, NG13A-1692.
- C188.** Chen, L. and P. A. Dirmeyer, 2016: Impacts of land use/land cover change on afternoon precipitation over North America. American Geophysical Union Fall Meeting, San Francisco, CA, USA, GC21B-1081.
- C187.** Ford, T., P. A. Dirmeyer, and D. Benson, 2016: Evaluation of the ability of S2S and NMME models to predict heat waves following drought events in the United States. American Geophysical Union Fall Meeting, San Francisco, CA, USA, A43O-06.
- C186.** Guo, Z. and P. A. Dirmeyer, 2016: Subseasonal predictability of extreme events. American Geophysical Union Fall Meeting, San Francisco, CA, USA, A33J-0411.
- C185.** Huang, B., C.-S. Shin, J. Shukla, L. Marx, M. Balmaseda, S. Halder, P. A. Dirmeyer, and J. L. Kinter 2016: Reforecasting the ENSO events in the past fifty-seven years (1958-2014). American Geophysical Union Fall Meeting, San Francisco, CA, USA, A43D-0262.
- C184.** Sobocinski-Norton, H. E. and P. A. Dirmeyer, 2016: Soil moisture memory in karst and non-karst landscapes. American Geophysical Union Fall Meeting, San Francisco, CA, USA, H31I-02.
- C183.** Wu, J. and P. A. Dirmeyer, 2016: Understanding the causes of drought demise over CONUS. American Geophysical Union Fall Meeting, San Francisco, CA, USA, H21D-1434.
- C182.** Dirmeyer, P. A., T. Ford and D. Benson 2016: Predictability of heat waves following drought events in the United States in S2S models (invited). Workshop on Sub-Seasonal to Seasonal Predictability of Extreme Weather and Climate, Lamont-Doherty Earth Observatory, Palisades, New York, USA.
- C181.** Hoyos, I., F. Dominguez, J. E. Cañon-Barriga, R. Nieto, A. Martinez, P. A. Dirmeyer, and L. Gimeno, 2016: Moisture origin and transport processes in Colombia, northern South America. 8<sup>th</sup> EGU Leonardo Conference, Ourense, Spain.
- C180.** Dirmeyer, P. A., J. Wei and A. Badger, 2016: Connections between oceans and continents via the atmospheric water cycle. CLIVAR Open Science Conference, Qingdao, China, 1.3-1.
- C179.** Dirmeyer, P. A., S. Halder and A. Badger, 2016: Teleconnections from land surface anomalies affect SSTs: Two distinct examples. CLIVAR Open Science Conference, Qingdao, China, Wed-151.
- C178.** Heidari, A., and P. A. Dirmeyer, 2016: Confronting Climate Model with satellite data. 3rd Satellite Soil Moisture Validation and Application Workshop, New York, New York, USA.
- C177.** Dirmeyer, P. A. and S. Halder, 2016: Role of land surface states in simulation and prediction of monsoons in CFSv2 (invited). Workshop on "Grand challenges in monsoon modeling: Representation of processes in climate models", International Centre for Theoretical Physics, Trieste, Italy.
- C176.** Dirmeyer, P. A., and L. Chen, 2016: Judging the Dance Contest – Metrics of Land–Atmosphere Feedbacks. 2016 International Land Model Benchmarking (ILAMB) Workshop, Washington, DC, USA.
- C175.** Dirmeyer, P. A., and M. B. Ek 2016: Modeling Land-Surface – Atmosphere. Water Availability Grand Challenge for North America Workshop, Columbia, Maryland, USA.
- C174.** Chen, L., O. W. Frauenfeld, and P. A. Dirmeyer, 2016: Biogeophysical Impacts of Land Cover / Land Use Change on Climate. 2016 Annual Meeting of the Association of American Geographers, San Francisco, California, USA.
- C173.** Bombardi, R., L. Marx, C. S. Shin, A. Tawfik, E. K. Schneider, P. A. Dirmeyer, and J. L. Kinter, 2016: The Heated Condensation Framework as a convective trigger in the NCEP Climate Forecast System version 2. American Meteorological Society 6th Conference on Transition of Research to Operations, New Orleans, Louisiana, USA, 3-3.
- C172.** Halder, S., P. A. Dirmeyer, L. Marx, and J. L. Kinter III, 2016: J17.3 Impact of land surface initialization on seasonal forecasts of the extremes of Indian summer monsoon. American Meteorological Society 30th Conference Hydrology, New Orleans, Louisiana, USA, J17.3.

- C171.** Kumar, S., R. P. Allan, P. A. Dirmeyer, D. M. Lawrence, and F. W. Zwiers, 2016: Revisiting trends in wetness and dryness in the presence of internal climate variability. American Meteorological Society 28th Conference on Climate Variability and Change, New Orleans, Louisiana, USA, 12C.2.
- C170.** Guo, Z., and P. A. Dirmeyer, 2016: Impacts of soil moisture initialization and memory on subseasonal forecast skill over North America. American Meteorological Society 30th Conference Hydrology, New Orleans, Louisiana, USA, 576.
- C169.** Guo, Z., and P. A. Dirmeyer, 2016: Subseasonal to Seasonal Forecast Skill of North American Precipitation and Surface Air Temperature. American Meteorological Society 28th Conference on Climate Variability and Change, New Orleans, Louisiana, USA, 619.
- C168.** Dirmeyer, P. A., 2015: Metrics as Tools for Assessing Land-Climate Feedback in Observations and Models (Invited). American Geophysical Union Fall Meeting, San Francisco, CA, USA, GC24B-01.
- C167.** Dirmeyer, P. A., 2015: The Land Surface as a Source of Predictability on Sub-Seasonal Time Scales (Invited). American Geophysical Union Fall Meeting, San Francisco, CA, USA, A43K-05.
- C166.** Halder, S., P. Dirmeyer, B. Cash and J. Adams, 2015: Potential Regions of Strong Land-atmosphere Coupling Based on the S2S Project Database: Implications for the Indian Summer Monsoon Rainfall Variability. American Geophysical Union Fall Meeting, San Francisco, CA, USA, A33M-0405.
- C165.** Tawfik, A., P. Dirmeyer, and D. Lawrence, 2015: Observed Local Soil Moisture-Atmosphere Feedbacks within the Context of Remote SST Anomalies: Lessons From Recent Droughts. American Geophysical Union Fall Meeting, San Francisco, CA, USA, H33J-06.
- C164.** Kumar, S., F. Zwiers, P. Dirmeyer, D. Lawrence, R. Shrestha and A. Werner, 2015: Robust and Heterogeneous Hydrological Changes under Global Warming. American Geophysical Union Fall Meeting, San Francisco, CA, USA, GC53B-1199.
- C163.** Halder, S., and P. A. Dirmeyer, 2015: Relation of Eurasian snow cover and Indian monsoon rainfall: Delayed hydrological effect. 40th Climate Diagnostics and Prediction Workshop, Denver, Colorado, USA.
- C162.** Dirmeyer, P. A., 2015: GSWP-1 & -2: Lessons learned. Land Modelling "LandMIP" Workshop, ETH Zurich, Zurich, Switzerland.
- C161.** Dirmeyer, P. A., 2015: GLACE 1&2 Overview. Land Modelling "LandMIP" Workshop, ETH Zurich, Zurich, Switzerland.
- C160.** Dirmeyer, P. A., 2015: Water Cycle Linkages Between the Intra-American Seas and Continental Areas. Observing and Modeling Climate Variability in the Intra-American Seas and Impacts on the Continental Americas and the Caribbean, Virtual Conference.
- C159.** Dirmeyer, P. A., 2015: Stranger in a Strange Land Model. Shukla Symposium, Bethesda, Maryland, USA.
- C158.** Dirmeyer, P. A., A. Tawfik, S. Halder, H. Norton, J. Wu, M. G. Bosilovich, J. A. Santanello Jr., and M. B. Ek, 2015: Confronting global land-atmosphere models with coupled process metrics. American Meteorological Society, 29th Conference on Hydrology, Phoenix, Arizona, USA, J1.2.
- C157.** Halder, S., P. A. Dirmeyer, L. Marx, and J. L. Kinter III, 2015: Predictability of the South Asian monsoon in the CFSv2 Operational Forecast Model. American Meteorological Society, Special Symposium on the South Asia Monsoon, Phoenix, Arizona, USA, 878.
- C156.** Shrestha, R. K., J. Meng, P. Xie, P. A. Dirmeyer, M. B. Ek, and K. Mo, 2015: Evaluation of OLR-based CPC high-resolution precipitation in GLDAS re-run experiment. American Meteorological Society, 29th Conference on Hydrology, Phoenix, Arizona, USA, 511.
- C155.** Tawfik, A. B., and P. A. Dirmeyer, 2015: A New Explicit and Computationally Efficient Sub-grid Convective Initiation Scheme. American Meteorological Society, 27th Conference on Climate Variability and Change, Phoenix, Arizona, USA, 12A.2.
- C154.** Kinter, J. L. III, P. A. Dirmeyer, B. Huang, E. K. Schneider, R. Bombardi, S. Halder, C. S. Shin, R. Shukla, and B. Singh, 2015: Promises and Prospects for Predicting the South Asian Monsoon. American Meteorological Society, Special Symposium on the South Asia Monsoon, Phoenix, Arizona, USA, 3.4.
- C153.** Tawfik, A. B., and P. A. Dirmeyer, 2014: Evolution of Soil Moisture-Convection Interactions against the Backdrop of Global Oscillations. American Geophysical Union Fall Meeting, San Francisco, CA, USA, H11J-05.

- C152.** Dirmeyer, P. A., Z. Guo, S. Halder, H. Norton, and J. Wu, 2014: An initial assessment of coupled land-atmosphere memory in (and beyond) reanalysis. 39th Climate Diagnostics and Prediction Workshop, St. Louis, Missouri, USA.
- C151.** Dirmeyer, P. A., A. Tawfik, H. Norton, and J. Wu, 2014: Land-atmosphere feedbacks over North America: How well do weather and climate models represent reality? World Weather Open Sci. Conf. (WWOSC), Montréal, Canada, SCI-PS101.02.
- C150.** Guo, Z. and P. A. Dirmeyer, 2014: Impact of land surface on subseasonal forecasting skill: Inter-model comparison. WWOSC, Montréal, Canada, SCI-PS113.02.
- C149.** Meng, J., Y. Xia, J. Dong, P. Dirmeyer, M. Ek, R. Shrestha, Preliminary investigations on high resolution land data assimilation over CONUS region. WWOSC, Montréal, Canada, SCI-POW1049.
- C148.** Dirmeyer, P. A., L. Yu, S. Amini, A. Crowell, A. Elders, and J. Wu, 2014: Projected transitions from recent climate in the surface water cycle and land-atmosphere coupling, 7th Intl. GEWEX Sci. Conf., The Hague, The Netherlands.
- C147.** Shrestha, R., H. Wei, J. Dong, P. A. Dirmeyer, and M. B. Ek, 2014: Introducing an automated Gap-Filling method to use CEOP data in land surface model evaluation and benchmarking experiment. 7th Intl. GEWEX Sci. Conf., The Hague, The Netherlands.
- C146.** Tawfik, A., and P. A. Dirmeyer, 2014: Rethinking convective triggering in CESM. Community Earth System Modeling Workshop, Breckenridge, Colorado, USA.
- C145.** Dirmeyer, P. A., and A. Tawfik, 2014: Validation of CFSv2 model behavior – Land-atmosphere interactions and the hydrologic cycle. NOAA Climate Prediction Science and Technology Digest, Feb 2014, 75-79.
- C144.** Dirmeyer, P. A., 2014: Does the NOAA global model take full benefit of land state information for subseasonal forecasts? WMO WWRP/THORPEX-WCRP International Conference on Subseasonal to Seasonal Prediction, College Park, Maryland, USA.
- C143.** Xu, Li, and P. A. Dirmeyer, 2014: Snow atmosphere coupling and its associate predictability. WMO WWRP/THORPEX-WCRP International Conference on Subseasonal to Seasonal Prediction, College Park, Maryland, USA.
- C142.** Best, M., G. Abramowitz, H. Johnson, M. Ek, P. A. Dirmeyer, Z. Guo, B. Pak, L. Stevens, M. Decker, G. Balsamo, B. J. J. M. van den Hurk, J. A. Santanello Jr., C. D. Peters-Lidard, S. Kumar, A. J. Pitman, A. A. Boone, H. Kim, and T. Oki, 2014: Results from the international benchmarking project, PLUMBER (PALS Land sUrface Model Benchmarking Evaluation pRoject) (Invited), American Meteorological Society, 28th Conference on Hydrology, J10.2.
- C141.** Kumar, S., J. L. Kinter III, P. A. Dirmeyer, and D. M. Lawrence, 2014: Climate Processes in CMIP5: The “warming hole” simulations in CMIP5 models—role of natural climate variability versus anthropogenic effects, American Meteorological Society, 26th Conference on Climate Variability and Change, 2A.4.
- C140.** Shrestha, R. K., H. Wei, J. Dong, P. A. Dirmeyer, and M. B. Ek, 2014: Sensitivity of albedo and greenness fraction parameters in surface fluxes estimated from Noah land surface models in the FLUXNET sites. American Meteorological Society, 28th Conference on Hydrology, 49.
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- C122.** Dirmeyer, P. A., 2012: Water Cycle and Land-Atmosphere Coupling. CFSv2 Evaluation Workshop, Riverdale, Maryland, USA.
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- C32.** Dirmeyer, P. A., 2000: The importance of land-surface variability to climate variability. Proc. 15th Conf. on Hydrology, American Meteorological Society.
- C31.** Schlosser, C. A., P. A. Dirmeyer, and L. Marx, 2000: Modeling issues of snow and land-ice in a general circulation model. Proc. 15th Conf. on Hydrology, American Meteorological Society.
- C30.** Venugopal, V., and P. A. Dirmeyer, 2000: Scale-invariance in space-time rainfall: Extension to climate scales. Proc. 15th Conf. on Hydrology, American Meteorological Society, 153-155.
- C29.** Xue, Y., H. H. Juang, P. A. Dirmeyer, S. Y. Hong, M. Kanamitsu, and Y. Sud, 2000: Sensitivity of GCM simulations to land-surface processes. Proc. 11th Symp. on Global Change Studies, American Meteorological Society.
- C28.** Hoff, H., R. Hutjes, and P. Dirmeyer, 1999: Land-surface data sets for hydrological and climate modelling. *IGBP Global Change Newsletter*, **39**, 18-21.
- C27.** Dirmeyer, P. A., K. L. Brubaker, F. Bernal, A. Sudradjat, and B. Levy, 1999: The evaporative sources of moisture supplying rainfall over the Mississippi basin. Proc. 2nd International Conference on Reanalyses, World Climate Research Programme WCRP-109, WMO/TD-NO. 985, 205-208.
- C26.** Dirmeyer, P. A., 1999: Impact of GSWP soil moisture and ISLSCP vegetation data sets on the simulation of seasonal climate. 14th Conf. on Hydrology, American Meteorological Society, 228-229.
- C25.** Dirmeyer, P. A., F. J. Zeng, A. Ducharne, R. D. Koster, and J. Morrill, 1999: Sensitivity of surface fluxes to soil water content in three land surface schemes. 14th Conf. on Hydrology, American Meteorological Society, 225-227.
- C24.** Dirmeyer, P. A., and K. L. Brubaker, 1999: The sources of moisture for warm season precipitation over the United States. 14th Conf. on Hydrology, American Meteorological Society, 309-311.
- C23.** Oki, T., T. Nishimura, and P. Dirmeyer, 1999: Validation of runoff by land surface models in major river basins of the globe using TRIP. 14th Conf. on Hydrology, American Meteorological Society, 222-223.
- C22.** Dirmeyer, P. A., and K. L. Brubaker, 1998: Contrasting the hydrologic cycle during the drought of 1988 and the flood of 1993. Abs. Vol. GCIP Miss. Riv. Climate Conf., 246.
- C21.** Dirmeyer, P. A., 1998: The impact of GSWP soil wetness analyses on GCM simulations of summer climate over the United States. Abs. Vol. GCIP Miss. Riv. Climate Conf., 131.
- C20.** Dirmeyer, P. A., and K. L. Brubaker, 1998: Using hourly precipitation data and NCEP reanalysis to investigate the hydrologic cycle during the drought of 1988 and the flood of 1993. Special Symp. on Hydrology, American Meteorological Society, 314-316.
- C19.** Dirmeyer, P. A., and K. L. Brubaker, 1998: Contrasting the hydrologic cycle during the drought of 1988 and the flood of 1993. Proc. 9th Symp. Global Change Studies, American Meteorological Society, 36-38.

- C18.** Dirmeyer, P. A., 1997: "What is the state of global and regional models in simulating precipitation, soil wetness, surface temperature, and runoff?" Modeling Strategy for Regional Climate Prediction and Assessment over North America: A PACS/GCIP Workshop, Silver Spring, Maryland, USA.
- C17.** Dirmeyer, P. A., 1997: Global water and energy flux data from the Global Soil Wetness Project. Eos, Transactions, Amer. Geophys. Union, 1997 Spring Meeting, 78, S156.
- C16.** Dirmeyer, P. A., 1997: Can seasonal climate simulation be improved by the GSWP soil wetness climatology? Proc. 13th Conf. on Hydrology, American Meteorological Society, 169.
- C15.** Dirmeyer, P. A., 1997: The sensitivity of soil wetness, runoff and surface fluxes to infiltration properties. Proc. 13th Conf. on Hydrology, American Meteorological Society, 335-336.
- C14.** Dirmeyer, P. A., J. L. Kinter and B. E. Doty, 1996: Predicting skill for ensemble characteristics in the NCEP medium range forecasts. 11th Conf. Numerical Weather Prediction, American Meteorological Society.
- C13.** Dirmeyer, P. A., 1996: The impact of GSWP soil wetness on seasonal climate simulation and predictability. Second Intl. Scientific Conf. on the Global Energy and Water Cycle, World Climate Research Programme, 454.
- C12.** Dirmeyer, P. A., 1996: The sensitivity of GSWP soil wetness to infiltration rate and convective precipitation distribution. Second Intl. Scientific Conf. on the Global Energy and Water Cycle, World Climate Research Programme, 455.
- C11.** Dirmeyer, P. A., 1996: Using the simplified Simple Biosphere model to generate global soil wetness climatologies. Eos, Transactions, Amer. Geophys. Union, 1996 Spring Meeting, 77, S123.
- C10.** Dirmeyer, P. A., 1996: The role of land-sea geometry in determining monsoon circulations. Proc. Symp. Global Ocean-Atmosphere-Land System (GOALS), American Meteorological Society, 140-142.
- C9.** Dirmeyer, P. A. and J. Shukla, 1995: The effect on climate of expansion of the world's deserts. Proc. 6th Symp. Global Change Studies, American Meteorological Society, 6-9.
- C8.** Reale, O., P. A. Dirmeyer and J. Shukla, 1995: Modeling the effects of the African rainforest on climate. 6th Symp. Global Change Studies, American Meteorological Society.
- C7.** Dirmeyer, P. A. 1995: An objective river routing scheme for runoff models. Proc. Conf. On Hydrology, American Meteorological Society, 91-92.
- C6.** Dirmeyer, P. A., 1994: The response of climate to subtropical desertification in a GCM with idealized topography. Proc. 6th Conf. Climate Variations, American Meteorological Society, 37-40.
- C5.** Dirmeyer, P. A., and J. Shukla, 1994: The response of the general circulation to deforestation in the tropics. Proc. 5th Symp. Global Change Studies, American Meteorological Society, 131-134.
- C4.** Dirmeyer, P. A., 1993: Vegetation as a feedback in mid-latitude drought. Eos, Transactions, Amer. Geophys. Union, 1993 Spring Meeting, 74, 64
- C3.** Shukla, J., and P. A. Dirmeyer, 1993: The importance of albedo in determining climate response to tropical deforestation. Eos, Transactions, Amer. Geophys. Union, 1993 Spring Meeting, 74, 67.
- C2.** Dirmeyer, P. A., 1991: The impact on climate of Amazon deforestation in a GCM with interactive clouds. Proc. 5th Conf. Climate Variations, American Meteorological Society, 271-273.
- C1.** Dirmeyer, P. A., 1989: The role of non-linearity in the structure of stationary waves in a one-layer spectral model. Proc. 7th Conf. on Atmospheric and Oceanic Waves and Stability, American Meteorological Society, 60.

**Other Meetings:**

- M141.** NASA Bedrock-to-Boundary Layer Scoping Study Team Kickoff Meeting, online, 3 September 2021.
- M140.** National Soil Moisture Workshop, online, 18-19 August 2021.
- M139.** Invited participant, NCAR Advanced Study Program Workshop on Subseasonal-to-Seasonal Science and Predictions, online, 2-6 August 2021.
- M138.** Invited participant, NCAR Advanced Study Program Summer Colloquium on Subseasonal-to-Seasonal Science and Predictions, online, 12-23 July 2021.
- M137.** Unified Forecast System (UFS) Research to Operations (R2O), First Annual PI Meeting, online, 12-15 July 2021.

- M136.** NOAA Modeling Analysis Prediction and Projection (MAPP) Climate Process Team (CPT) Meeting: Coupling of Land and Atmospheric Subgrid Parameterizations (CLASP), online, 23 June 2021.
- M135.** Unified Forecast System (UFS) Land Modeling Workshop, online, 25-26 May 2021.
- M134.** GEWEX Scientific Steering Group Meeting #33, online, 3-6 May 2021.
- M133.** Soil Moisture Network Operators Workshop, online, 8, 10 March 2021.
- M132.** NCAR Land Model Working Group (LMWG) Meeting, online, 24-25 February 2021.
- M131.** Coupling of Land and Atmospheric Subgrid Parameterizations (CLASP) Diagnostic Team Meeting, online, 17 February 2021.
- M130.** NOAA/CPO/ESSM - DOE/ESSD Precipitation Processes and Predictability Workshop, online, 30 November – 2 December 2020.
- M129.** GEWEX Global Land Atmosphere System Study (GLASS) Science Panel Meeting, online, 23-25 November 2020.
- M128.** Consistent Representation of Temporal Variations of Boundary Forcings in Reanalyses and Seasonal Forecasts (CONFESS) Kickoff Meeting, online, 3-4 November 2020.
- M127.** SMAP Science Team Meeting #14, online, 6-7 October 2020.
- M126.** WWRP/WCRP Seasonal to Subseasonal (S2S) Steering Group Meeting, online, 22-24 September 2020. Coupling of Land and Atmospheric Subgrid Parameterizations (CLASP), LES Meeting, online, 5 August 2020.
- M125.** Unified Forecast System (UFS) Users' Workshop, online, 27-29 July 2020.
- M124.** NASA Planetary Boundary Layer Incubation Workshop, online, 19-20 May 2020.
- M123.** Unified Forecast System (UFS) Research to Operations (R2O) Kick-Off Meeting, online, 9-10 July 2020.
- M122.** NOAA Modeling Analysis Prediction and Projection (MAPP) Climate Process Team (CPT) Meeting: Coupling of Land and Atmospheric Subgrid Parameterizations (CLASP), online, 30-31 March 2020.
- M121.** GEWEX Scientific Steering Group Meeting #32, Pasadena, CA, USA, 27-31 January 2020.
- M120.** Coupling of Land and Atmospheric Subgrid Parameterizations (CLASP) Diagnostic Team Meeting, online, 4 December 2019.
- M119.** Subseasonal Experiment (SubX) Review meeting, National Center for Weather and Climate Prediction, College Park, MD, USA, 19 August 2019.
- M118.** GEWEX Global Land Atmosphere System Study (GLASS) Science Panel meeting, Boulder, CO, USA, 6-8 August 2019.
- M117.** GEWEX Scientific Steering Group Meeting #31, Geneva, Switzerland, 25 February-1 March 2019.
- M116.** Invited participant, "International Workshop of First Phase of GEWEX/GASS ILSTSS2S Initiative and TPemip" Washington, DC, USA. 8-9 December 2018.
- M115.** Invited participant, "Enabling FAIR Data – Stakeholder Meeting" Alexandria, Virginia USA. 16-17 November 2017.
- M114.** Invited participant, "Briefing to the US CLIVAR Summit PPAI Panel Breakout: NOAA S2S Prediction Task Force" US CLIVAR Summit, Baltimore, MD USA. 9 August 2017.
- M113.** WWRP/WCRP Seasonal to Subseasonal (S2S) Steering Group Meeting, Columbia University, New York, New York, USA, 8-9 December 2016.
- M112.** NOAA Modeling Analysis Prediction and Projection (MAPP) Subseasonal-to-Seasonal (S2S) Prediction Task Force Kick-Off Meeting, Lamont-Doherty Earth Observatory, Palisades, New York, USA, 5 December 2016.
- M111.** Co-organizer, 8<sup>th</sup> EGU Leonardo Conference: "From Evaporation to Precipitation: the Atmospheric Moisture Transport", European Geophysical Union, Ourense, Spain, 25-27 October 2016.
- M110.** Invited participant, WCRP Workshop: "Climate Science: Thinking out of the Box", ICSU Secretariat, Paris, France, 23-24 June 2016.
- M109.** "Confronting CLM with land surface observations" presented by A. Tawfik, NCAR Land Model Working Group (LMWG) Meeting, Boulder, Colorado, 3 March 2015.
- M108.** Session Chair and Workshop Advisory Committee Member, 6th International Workshop on Catchment Hydrological Modeling and Data Assimilation (CAHMDA-VI) and 3rd International Workshop on Data Assimilation

- for Operational Hydrology and Water Management of the Hydrologic Ensemble Prediction Experiment (HEPEX-DAFOH III), Austin, Texas, USA, September 8-12, 2014.
- M107.** Co-convenor and speaker on "Scientific Challenges", NSF Hydrologic-Atmospheric Community Workshop, Colorado School of Mines, Golden, Colorado, USA, 3-5 September 2014.
- M106.** Co-convenor, Theme 3 Interactions between sub-systems – Topic on Land-atmosphere interactions and water cycle, World Weather Open Sci. Conf. (WWOSC), Montréal, Canada, 16-21 August, 2014.
- M105.** WWRP/WCRP Seasonal to Subseasonal (S2S) Steering Group Meeting, Environment Canada, Montréal, Canada, 22 August 2014.
- M104.** Co-convenor, 7th International GEWEX Science Conference, World Forum, The Hague, The Netherlands, 17-21 July 2014.
- M103.** GEWEX Global Land Atmosphere System Study (GLASS) Science Panel Meeting, The Hague, The Netherlands, 17-21 July 2014.
- M102.** GEWEX Global Land Atmosphere System Study (GLASS) Science Panel Meeting, Exeter, Devon, UK, 16-18 October 2013.
- M101.** GEWEX Diurnal Coupling Experiment (DICE) workshop, Exeter, Devon, UK, 16-18 October 2013.
- M100.** "Seasonal climate forecasts in past, present and future climate – Role of the land surface" NCAR Land Model Working Group (LMWG) Meeting, Boulder, Colorado, 20 February 2013.
- M99.** GEWEX Global Land Atmosphere System Study (GLASS) Science Panel Meeting, Denver, Colorado, USA, 23 October 2011.
- M98.** NOAA Water Cycle Science Challenge Workshop, Boulder, Colorado, USA, 30 August-1 September 2011.
- M97.** NASA Gravity Recovery and Climate Experiment (GRACE) Science Review Panel, Potomac, Maryland, USA, 26-27 July 2011.
- M96.** Terrestrial Regional North American Hydroclimate Experiment (TRACE) Community Discussion Workshop, Silver Spring, Maryland, USA, 18-20 April 2011.
- M95.** "Multi-Model Approaches to Improve Land Surface Analyses" GEWEX/iLEAPS LANDFLUX Meeting, Melbourne, Australia 23 August 2009.
- M94.** "CLM-related research at COLA" Presented at NCAR CCSM Land Model Working Group, Boulder, Colorado, USA, 30-31 March 2009.
- M93.** World Climate Research Programme (WCRP)/ Climate Variability (CLIVAR)/ Variability of American Monsoon Systems (VAMOS) Panel 11, Miami, Florida, USA. 25-27 March 2008.
- M92.** Community Climate System Model (CCSM) Land Model Working Group (LMWG), Boulder, Colorado, USA, 20-21 February 2008.
- M91.** Center for Research on Environment and Water (CREW) WaterNet Team Meeting, Calverton, Maryland, USA, 19-20 November 2007.
- M90.** 12th Annual CCSM Workshop, Breckenridge, Colorado, USA, 19 – 21 June 2007.
- M89.** Board on Atmospheric Science and Climate (BASC), Climate Research Committee (CRC) Spring Meeting, Washington, DC, USA, 16-17 May 2007.
- M88.** 3rd Working Group on Numerical Experimentation (WGNE) Workshop on Systematic Errors in Climate and NWP Models, San Francisco, California, USA, 12-16 February 2007.
- M87.** BASC, CRC WCRP Round-Table, Washington, DC, USA, 30 November 2006.
- M86.** NASA Energy and Water System (NEWS) PI Meeting, College Park, Maryland, USA, 26-28 September 2006.
- M85.** US African Monsoon Multi-disciplinary Analysis (AMMA) Workshop, Silver Spring, Maryland, USA, 4-5 May 2006.
- M84.** National Science Foundation (NSF) Workshop on Innovation and Discovery, Arlington, Virginia, USA, 17-18 May 2006.
- M83.** US Dept. Agriculture (USDA) Agricultural Research Service (ARS) Hydrology and Remote Sensing Laboratory (HRSL) Review, Beltsville, Maryland, USA, 21 February 2006.
- M82.** Joint Session of the 21st CAS/JSC Working Group on Numerical Experimentation (WGNE) and 9th GEWEX Modeling and Prediction Panel (GMPP), St. Petersburg, Russia, 8-12 November 2005.

- M81.** 6th GEWEX Global Land Atmosphere System Study (GLASS) Science Panel Meeting, KNMI, DeBilt, Netherlands, 21-23 September 2005.
- M80.** Joint Global Land Atmosphere System Study (GLASS) GEWEX Atmospheric Boundary Layer Study (GABLS) Workshop, KNMI, DeBilt, Netherlands, 19-21 September 2005.
- M79.** Observational and Modelling Requirements for Predicting Drought on Seasonal to Decadal Time Scales, University of Maryland, College Park, Maryland, USA, 17-19 May 2005.
- M78.** International Satellite Land-Surface Climatology Project (ISLSCP) Science and Evaluation Workshop, University of Maryland Baltimore County, Catonsville, Maryland, USA, 3-5 May 2005.
- M77.** European Land Data Assimilation System (ELDAS) workshop on Land Surface Assimilation, European Centre for Medium-range Weather Forecasts, Reading, United Kingdom, 8-11 November 2004.
- M76.** Joint Session of the 20th CAS/JSC Working Group on Numerical Experimentation (WGNE) and 8th GEWEX Modeling and Prediction Panel (GMPP), United Kingdom Meteorological Office, Exeter, United Kingdom, 11-15 October 2004.
- M75.** NASA Terrestrial Hydrology Program Meeting, University of Maryland, College Park, Maryland, USA, 5-8 October 2004.
- M74.** 5th GEWEX Global Land Atmosphere System Study (GLASS) Science Panel Meeting, Heian Conference Center, Kyoto, Japan, 13-15 September 2004.
- M73.** Workshop on the Second Global Soil Wetness Project (GSWP-2), Heian Conference Center, Kyoto, Japan, 15-17 September 2004.
- M72.** Targeted training activity - Course on climate dynamics for climate research centers and university lecturers, The Abdus Salam International Center for Theoretical Physics, Trieste, Italy, 9-27 August, 2004.
- M71.** Integrated Land Ecosystem-Atmosphere Process Study (iLEAPS) Scientific Steering Committee Meeting, Helsinki, Finland, 28-29 June 2004.
- M70.** Symposium on Climate Dynamics and Predictability, Center for Ocean-Land-Atmosphere Studies, 18 June 2004.
- M69.** Climate system Observational and Prediction Experiment (COPE) Workshop on Seasonal Prediction, East-West Center, Honolulu, Hawaii, USA, 3-5 November, 2003.
- M68.** Global Water System Project (GWSP) Open Science Conference, Portsmouth, New Hampshire, USA, 7-9 October 2003.
- M67.** Project to Intercompare Land-surface Parameterization Schemes (PILPS) Semi-Arid (San Pedro/Seville) Workshop, Tucson, Arizona, USA, 27-29 August, 2003.
- M66.** 4th GEWEX Global Land Atmosphere System Study (GLASS) Science Panel Meeting, Tucson, Arizona, USA, 25-27 August, 2003.
- M65.** 3rd Global Water Cycle Program (GWCP) Science Steering Group Meeting, National Science Foundation, Arlington, Virginia, USA, 18-19 August 2003.
- M64.** North American Monsoon Experiment (NAME) Modeling and Data Assimilation R&D Workshop, College Park, Maryland, USA, 6 June 2003.
- M63.** NASA/CLIVAR Subseasonal Workshop, College Park, Maryland, USA, 4-5 June 2003.
- M62.** NAME 4th Scientific Working Group Meeting, Boulder, Colorado, USA, 9-10 January 2003.
- M61.** Global Water Cycle Program (GWCP) Science Steering Group Meeting, Bethesda, Maryland, USA, 6-7 January 2003.
- M60.** US-CLIVAR Pan-American Panel Meeting, Albuquerque, New Mexico, USA, 17-18 December 2002.
- M59.** ISLSCP Future Strategy and Initiative II Meeting, Silver Spring, Maryland, USA, 8-9 October 2002
- M58.** 3rd GLASS Science Panel Meeting, COLA, Calverton, Maryland, USA, 2-4 October, 2002.
- M57.** GSWP-2 Kickoff Meeting, COLA, Calverton, Maryland, USA, 30 September-1 October 2002.
- M56.** Global Water Cycle Program (GWCP) Science Steering Group Meeting, Beltsville, Maryland, USA, 29-31 July 2002.
- M55.** Climate of the Twentieth Century (C20C) Workshop, COLA, Calverton, Maryland, USA, 22-25 January 2002.
- M54.** 2nd GLASS Science Panel Meeting, Mètèo-France, Toulouse, France, 7-9 November, 2001.

- M53.** GSWP Rhône/AGG Project Workshop, Mètèo-France, Toulouse, France, 5-7 November, 2001.
- M52.** NASA/NOAA GAPP & Land Surface Hydrology Joint PI Meeting, Potomac, Maryland, USA, 30 April-4 May 2001.
- M51.** BAHC Synthesis Meeting, Aalsmeer, Netherlands, 7-8 March, 2001
- M50.** CEOP International Workshop, NASA/GSFC, Greenbelt, Maryland, USA, 27 February-1 March 2001.
- M49.** LBA Ecology Open Meeting, Atlanta, Georgia, USA, 12-14 February 2001.
- M48.** ISLSCP Initiative II Mid-Course Workshop, NASA/GSFC, Greenbelt, Maryland, USA, 15-17 November 2000.
- M47.** US CLIVAR Pan-American Principal Investigators Meeting, Potomac, Maryland, USA, 6-8 September 2000.
- M46.** 1st GLASS Science Panel Meeting, Lucas Heights, New South Wales, Australia, 19-21 July 2000.
- M45.** CLIVAR Pan-American Climate System (PACS) Implementation Panel Meeting, Portland, Oregon, USA, 7-8 June 2000.
- M44.** CLIVAR Seasonal-to-Interannual Modeling, Analysis and Prediction (SIMAP) Panel Meeting, Calverton, Maryland, USA, 22-24 May 2000.
- M43.** GEWEX/BAHC International Workshop on Soil Moisture Monitoring, Analysis and Prediction, Norman, Oklahoma, USA, 16-18 May 2000.
- M42.** Global Soil Wetness Project GSWP1.5 & GSWP2 Planning Workshop, Norman, Oklahoma, USA, 15 May 2000.
- M41.** ISLSCP/BAHC Science Panel Meeting and BAHC Synthesis Editors Meeting, Caracas, Venezuela, 10-15 April 2000.
- M40.** GCIP PI Meeting and GEWEX America Prediction Project (GAPP) Planning Meeting, Potomac, Maryland, USA, 27-28 March 2000.
- M39.** US CLIVAR Joint Panel Meeting, Costa Mesa, California, USA, 14-15 January 2000.
- M38.** GEWEX/INSU International Workshop on Modeling Land-Surface Atmosphere Interactions and Climate Variability, Gif-sur-Yvette, France, 4-8 October, 1999.
- M37.** BAHC/GCTE/GEWEX Workshop on Modeling Root Water Uptake in Hydrological and Climate Models, Gif-sur-Yvette, France, 30 September - 2 October 1999.
- M36.** GEWEX Continental-scale International Project (GCIP) Principal Investigators Meeting, College Park, Maryland, 17-19 May 1999.
- M35.** Global Precipitation Climatology Project (GPCP) User Workshop, Silver Spring, Maryland, 10-12 May 1999.
- M34.** First Biospheric Aspects of the Hydrologic Cycle (BAHC) Synthesis Workshop, Obereggen, Italy, 6-12 March 1999.
- M33.** Common Land Model Development Workshop, Tucson, Arizona, 1-3 March 1999.
- M32.** International Workshop on the Land-Surface Water Budget, Tsukuba, Japan, 19-21 January 1999.
- M31.** Joint CAS/JSC Working Group on Numerical Experimentation (WGNE) 14th Session, and GEWEX Modelling and Prediction Panel (GMPP), Second Session, RPN, Montreal, Quebec, Canada, 2-6 November 1998.
- M30.** NASA EOS Investigators Working Group Meeting, University of New Hampshire, Durham, New Hampshire, 19-21 October 1998.
- M29.** ECMWF and WCRP/GEWEX Workshop on Modelling and Data Assimilation for Land-Surface Processes, ECMWF, Reading, England, 29 June - 2 July 1998.
- M28.** NCAR Climate System Model (CSM) Workshop, Breckenridge, Colorado, 22-24 June 1998.
- M27.** IGBP Biospheric Aspects of the Hydrologic Cycle (BAHC) 8th Scientific Steering Committee Meeting, UNESCO Headquarters, Paris, France, 30 April - 1 May 1998.
- M26.** International Workshop on Land Surface Data in Climate and Weather Models, UNESCO Headquarters, Paris, France, 28-29 April 1998.
- M25.** International Satellite Land-Surface Climatology Project (ISLSCP) Science Panel Meeting, UNESCO Headquarters, Paris, France, 27-28 April 1998.
- M24.** GCIP Post-2000 Vision Meeting, Wheaton, Maryland, 20-21 April 1998.
- M23.** Southern Great Plains 1997 (SGP97) Hydrology Project Workshop, Columbia, Maryland, 3-5 March 1998.
- M22.** CSM Land-Model Working Group Meeting, Boulder, Colorado, 19-20 February 1998



- M21.** World Climate Research Programme First International Conference on Reanalyses, Silver Spring, Maryland, USA, 27-31 October 1997.
- M20.** International Satellite Land-Surface Climatology Project (ISLSCP) Science Panel Meeting, Silver Spring, Maryland, USA, 10-11 July 1997.
- M19.** NCAR Climate System Model (CSM) Workshop, Breckenridge, Colorado, USA, 24-26 June 1997.
- M18.** IGBP Biospheric Aspects of the Hydrologic Cycle (BAHC) 7th Scientific Steering Committee Meeting, Polson, Montana, USA, 29 May-1 June 1997.
- M17.** GEWEX/IGBP Workshop on Land-Surface Parameterizations and Soil-Vegetation-Atmosphere Transfer Schemes, La Jolla, California, USA, 10-14 February 1997.
- M16.** Session Chair, AMS Conference on Hydrology, Long Beach, California, USA, 2-8 February 1997.
- M15.** Chair, GEWEX Global Soil Wetness Project (GSWP) Final Meeting, Long Beach, California, USA, 8 February 1997.
- M14.** Large-Scale Biosphere-Atmosphere Experiment in Amazonia (LBA) Science Meeting, São Jose dos Campos, Brazil, 27-29 June 1996.
- M13.** Chair, GEWEX Global Soil Wetness Project (GSWP) Meeting, Goddard Space Flight Center, Greenbelt, Maryland, USA, 30-31 May 1996.
- M12.** ISLSCP Science Panel Meeting, Goddard Space Flight Center, Greenbelt, Maryland, USA, 29-30 May 1996.
- M11.** Intergovernmental Panel on Climate Change (IPCC) Working Group II; Regional Impacts Study Meeting, Washington, DC, USA, 15-16 May 1996.
- M10.** Chair, GEWEX GSWP production team meeting, Center for Ocean-Land-Atmosphere Studies, Calverton, Maryland, USA, 24-25 August 1995.
- M9.** International Union of Geodesy and Geophysics, XXI General Assembly, Boulder, Colorado, USA, 2-14 July 1995.
- M8.** ISLSCP Science Panel Meeting, Goddard Space Flight Center, Greenbelt, Maryland, USA, 15-16 June 1995.
- M7.** GEWEX Global Soil Wetness Workshop, Longmont, Colorado, USA, 4-6 October 1994.
- M6.** Chair, Meeting on Problems in Initializing Soil Wetness, Center for Ocean-Land-Atmosphere Studies, Calverton, Maryland, USA, 19 August 1994.
- M5.** NATO Workshop on Prediction of Interannual Climate Variations, July 1991, International Center for Advanced Studies, Trieste, Italy, sponsored by the NATO Science Committee.
- M4.** Summer School for Earth Sciences, "Processes of Global Change", August 1990, California Institute of Technology, Pasadena, California, USA, sponsored by NASA Jet Propulsion Laboratory.
- M3.** Mini Symposium on Climate and Global Change, June 1990, International Center for Earth and Environmental Sciences, Trieste, Italy, sponsored by the United Nations Industrial Development Organization.
- M2.** Workshop on the 1988 United States Drought, May 1990, Center for Ocean-Land-Atmosphere Interactions and Department of Meteorology, University of Maryland, College Park, Maryland.
- M1.** "The role of non-linearity in the structure of stationary waves in a one-layer spectral model." Paper presented at Graduate Research Interaction Day, University of Maryland, sponsored by the Graduate Student Association, 19 April 1989.