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December 03 - 07, 2012

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Monday, December 03, 2012

Time	Session Info
8:00 AM-12:20 PM, Hall A-C (Moscone South), **GC11B. Climate Change Science for Sustainability Planning I Posters**	
8:00-8:00 AM	**GC11B-1004. A Comprehensive Framework for Quantitative Evaluation of Downscaled Climate Predictions and Projections** J.J. Barsugli; G. Guentchev
4:00 PM-6:00 PM, 3007 (Moscone West), **C14B. Snow Cover–Vegetation Interactions I**	
5:00-5:15 PM	**C14B-05. Integration of airborne LiDAR data and voxel-based ray tracing to determine high-resolution solar radiation dynamics at the forest floor: implications for improving stand-scale distributed snowmelt models** K.N. Musselman; N.P. Molotch; S.A. Margulis
5:45-6:00 PM	**C14B-08. Under-canopy snow accumulation and ablation measured with airborne scanning LiDAR altimetry and in-situ instrumental measurements, southern Sierra Nevada, California** P.B. Kirchner; R.C. Bales; K.N. Musselman ; N.P. Molotch

Tuesday, December 04, 2012

Time	Session Info
8:00 AM-10:00 AM, 2003 (Moscone West), **B21I. When Winter Changes: Hydrological, Ecological, and Biogeochemical Responses I**	
8:00-8:15 AM	**B21I-01. Hydrological and ecological implications of radiative forcing by dust in snow *(Invited)*** T. Painter; A.C. Bryant; J.S. Deems; M. Skiles
8:00 AM-12:20 PM, Hall A-C (Moscone South), **C21A. Microwave Remote Sensing of Snow II Posters**	
8:00-8:00 AM	**C21A-0559. Inversion of Airborne Passive Microwave Data for Snow Properties using the Metropolis Algorithm** B. Vander Jagt; M.T. Durand; S.A. Margulis; N.P. Molotch; E.J. Kim
8:00 AM-12:20 PM, Hall A-C (Moscone South), **H21A. Advanced Computational Modeling Paradigms for Hydrologic Systems Posters**	
8:00-8:00 AM	**H21A-1158. CI-WATER HPC Model: Cyberinfrastructure to Advance High Performance Water Resources Modeling in the Intermountain Western U.S.** F.L. Ogden; W. Lai; C.C. Douglas; S.N. Miller; Y. Zhang

8:00 AM-12:20 PM, Hall A-C (Moscone South), **H21B. Advanced Watershed Characterization Using Remote Sensing Posters**	
8:00-8:00 AM	**H21B-1179. Elevation-dependent controls on snowmelt partitioning and vegetation response inferred from satellite observations *(Invited)*** N.P. Molotch; B. Guan; E. Trujillo
8:00 AM-10:00 AM, 2003 (Moscone West), **B21I. When Winter Changes: Hydrological, Ecological, and Biogeochemical Responses I**	
8:15-8:30 AM	**B21I-02. Insects, Fires, and Climate Change: Implications for Snow Cover, Water Resources and Ecosystem Recovery in Western North America** P.D. Brooks; A.A. Harpold; J.A. Biederman; M.E. Litvak; P.D. Broxton; D. Gochis; N.P. Molotch; P.A. Troch; B.E. Ewers
8:00 AM-10:00 AM, 3003 (Moscone West), **GC21G. Assessing Local Impacts of Sea Level Rise to the Natural and Built Environment II**	
8:45-9:00 AM	**GC21G-04. Future sea level rise assessment by constrained extrapolation *(Invited)*** W.T. Pfeffer; B. Rajagopalan
1:40 PM-6:00 PM, Hall A-C (Moscone South), **G23A. 4-D LiDAR Topography and Geodetic Imaging II Posters**	
1:40-1:40 PM	**G23A-0888. Integration of ground-based and airborne lidar data for improved terrain model generation** J.S. Deems; D.C. Finnegan; A. Fowler; T. Painter
1:40 PM-3:40 PM, 102 (Moscone South), **U23A.* Regional-Scale Earth System Modeling to Support Policymaking**	
2:40-3:00 PM	**U23A-04. A critical evaluation of bias and uncertainty the use of downscaled climate projections in water resources impacts modeling *(Invited)*** J.J. Barsugli
1:40 PM-3:40 PM, 3016 (Moscone West), **H23L. Water Resources Management and Policy in a Changing World: Integrated Planning and Assessment**	
3:10-3:25 PM	**H23L-07. Can the Gila River reduce risk in the Colorado River Basin?** L.C. Wade; B. Rajagopalan; J. Lukas; D. Kanzer
1:40 PM-3:40 PM, 3022 (Moscone West), **H23J. Modeling and Observation of the Terrestrial Hydrological Cycle to Capture Multiscale Complexity of Land-Atmosphere Interactions I**	
3:25-3:40 PM	**H23J-07. Interpreting changes to Upper Colorado River Basin hydrologic response via alternate climatic and land-cover scenarios.** B. Livneh; J.S. Deems; B. Buma; C.A. Wessman

Wednesday, December 05, 2012

Time	Session Info

8:00 AM-10:00 AM, 2002 (Moscone West), **B31I. Strategic Climate Change Partnerships: Integrating Regional Research, Conservation, and Natural Resource Management I**	
8:00-8:20 AM	**B31I-01. Interior's Climate Science Centers: Focus or Fail** ***(Invited)*** B. Udall
8:00 AM-12:20 PM, Hall A-C (Moscone South), **H31A. Developing the Science for High-Resolution Water-Energy-Biogeochemical Cycle Modeling II Posters**	
8:00-8:00 AM	**H31A-1102. Application of Multiscale Parameterization Framework for the Large Scale Hydrologic Modeling** R. Kumar; L.E. Samaniego; B. Livneh; S. Attinger
8:00 AM-12:20 PM, Hall A-C (Moscone South), **H31C. Making the Connection: Development and Application of Climate Projections for Water Resources Planning and Operations Posters**	
8:00-8:00 AM	**H31C-1123. Challenges and Methods for Exploring Climate Risk in an Integrated Water Resource Plan by a Municipal Water Supplier** ***(Invited)*** D.N. Yates; L. Basdekas; B. Rajagopalan
8:00-8:00 AM	**H31C-1126. Tools and Techniques for Basin-Scale Climate Change Assessment** E. Zagona; B. Rajagopalan; W. Oakley; N. Wilson; P. Weinstein; A. Verdin; C. Jerla; J.R. Prairie
10:20 AM-12:20 PM, 3007 (Moscone West), **C32B. Diagnosing Modeling Deficiencies and the Recent Advances in Monitoring, Measuring, and Modeling Snow Processes I**	
10:35-10:50 AM	**C32B-02. Diagnosing current land surface models' ability to represent snowpack evolution in complex terrain and forested Central Rockies** ***(Invited)*** F. Chen; M.J. Barlage; M. Tewari; R. Rasmussen; Y. Bao; J. Jin; D.P. Lettenmaier; B. Livneh; C. Lin; G. Miguez-Macho; G. Niu; L. Wen; Z. Yang
11:05-11:20 AM	**C32B-04. Seasonal and inter-annual snowmelt patterns in the southern Sierra Nevada, California** ***(Invited)*** K.N. Musselman; N.P. Molotch; S.A. Margulis
1:40 PM-6:00 PM, Hall A-C (Moscone South), **B33E. Strategic Climate Change Partnerships: Integrating Regional Research, Conservation, and Natural Resource Management II Posters**	
1:40-1:40 PM	**B33E-0566. Joint Applications Pilot of the National Climate Predictions and Projections Platform and the North Central Climate Science Center: Delivering climate projections on regional scales to support adaptation planning** A.J. Ray; D.S. Ojima; J.T. Morisette
1:40 PM-6:00 PM, Hall A-C (Moscone South), **C33C. Quantifying Spatial Variability of Snow and Snow Processes II Posters**	
1:40-1:40 PM	**C33C-0677. A regression-based approach for blending remotely sensed and in-situ snow water equivalent estimates in the Colorado River Basin.** D. Schneider; N.P. Molotch

1:40-1:40 PM	**C33C-0681. Comparison of Coordinated Satellite and Ground-based X-Band Radar Collections for the Retrieval of Snow Parameters** E.J. Deeb; H. Marshall; A.L. LeWinter; D.C. Finnegan; J.S. Deems; C. Landry
1:40 PM-6:00 PM, Hall A-C (Moscone South), **C33D. Snow Cover–Vegetation Interactions II Posters**	
1:40-1:40 PM	**C33D-0684. Effects of forest structure on snow accumulation and melt derived from ecohydrological instrument clusters across the Western US *(Invited)*** N.P. Molotch; K.N. Musselman; P.B. Kirchner; R.C. Bales; P.D. Brooks

Thursday, December 06, 2012

Time	Session Info
8:00 AM-10:00 AM, 3002 (Moscone West), **C41D.* Dust and Black Carbon in the Cryosphere I (Video On-Demand)**	
9:30-9:45 AM	**C41D-07. Multiscale hydrologic impacts of dust deposition and climate warming in the Upper Colorado River Basin *(Invited)*** J.S. Deems; T. Painter; J. Barsugli
10:20 AM-12:20 PM, 3018 (Moscone West), **H42B. Advances in Hydrometeorological Predictions and Applications II**	
10:35-10:50 AM	**H42B-02. Advancing Ensemble Streamflow Prediction with Stochastic Meteorological Forcings for Hydrologic Modeling** N. Caraway; A.W. Wood; B. Rajagopalan; E.A. Zagona; L. Daugherty
1:40 PM-6:00 PM, Hall A-C (Moscone South), **H43B. Complexity, Falsifiability, Transparency, and Uncertainty in Environmental Modeling II Posters**	
1:40-1:40 PM	**H43B-1322. Evaluating Different Model Structures for Representing Watershed Functions through the use of Signature Measures** P.A. Mendoza; M.P. Clark; B. Rajagopalan
1:40 PM-6:00 PM, Hall A-C (Moscone South), **PA43A. Population 7 Billion and Growing: Water Security in a Changing Climate Posters**	
1:40-1:40 PM	**PA43A-1967. Sectoral Vulnerabilities to Changing Water Resources: Current and Future Tradeoffs between Supply and Demand in the Conterminous U.S.** J. Meldrum; K. Averyt; P. Caldwell; G. Sun; A.T. Huber-lee; S. McNulty

Friday, December 07, 2012

Time	Session Info

8:00 AM-12:20 PM, Hall A-C (Moscone South), **H51B. Ecohydrology of Terrestrial and Aquatic Ecosystems in an Era of Rapid Change II Posters**	
8:00-8:00 AM	**H51B-1336. Hydrologic response to modeled snowmelt input in alpine catchments in the Southwestern United States** J.M. Driscoll; N.P. Molotch; S.M. Jepsen; T. Meixner; M.W. Williams; J.O. Sickman
1:40 PM-6:00 PM, Hall A-C (Moscone South), **C53C.* Dust and Black Carbon in the Cryosphere II Posters**	
1:40-1:40 PM	**C53C-0864. Dust in Snow in the Colorado River Basin: Spatial Variability in Dust Concentrations, Radiative Forcing, and Snowmelt Rates** M. Skiles; T. Painter; J.S. Deems; C. Landry; A. Bryant