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Items highlighted indicate a time conflict.

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MONDAY, 12 DECEMBER 2016

09:30 - 09:45



H11D-07 Hydrologic Response to Climatic and Vegetation Change in an Extreme Alpine Environment

Ben Livneh¹, Andrew Badger², Noah P Molotch³, Clifford Bueno de Mesquita³ and Katherine Suding⁴. (1)Cooperative Institute for Research in Environmental Sciences, Boulder, CO, United States. (2)George Mason University Fairfax, Fairfax, VA, United States. (3)University of Colorado at Boulder, Geography / INSTAAR, Boulder, CO, United States. (4)University of Colorado, INSTAAR, Boulder, CO, United States

Moscone West - 2020

13:40 - 18:00

**H13L-1588 Hydrologic Transformation of the Glacierized Watersheds in Peruvian Andes:
From Glaciers to Groundwater**

Jeffrey M McKenzie¹, Robin Lee Glas², Laura Lautz², Bryan G Mark³, Oliver Wigmore³, Michel Baraer⁴ and Emily Alyssa Baker². (1)McGill University, Montreal, QC, Canada. (2)Syracuse University, Syracuse, NY, United States. (3)Ohio State University Main Campus, Columbus, OH, United States. (4)Ecole de Technologie Superieur, Montreal, QC, Canada

📍 Moscone South - Poster Hall

14:10 - 14:25



C13F-03 Using Remotely Sensed Fractional Snow Covered Area to Predict Snow Depth
Dominik Schneider and Noah P Molotch, University of Colorado at Boulder, Geography / INSTAAR, Boulder, CO, United States

📍 Moscone West - 3009



17:00 - 17:15

C14C-05 Modeling the Variability and Importance of Snow Sublimation in the North-Central Colorado Rocky Mountains

Graham A Sexstone, Colorado State University, EASC - Watershed Science, Fort Collins, CO, United States; **US Geological Survey, Colorado Water Science Center, Denver, CO, United States**, **David W Clow**, USGS Central Region Offices Denver, Denver, CO, United States, **Steven R Fassnacht**, Colorado State University, Fort Collins, CO, United States, **Glen E Liston**, Colorado State Univ, Fort Collins, CO, United States, **Christopher A Hiemstra**, US Army Corps of Engineers Washington DC, Washington, DC, United States and **John F Knowles**, University of Colorado at Boulder, INSTAAR, Boulder, CO, United States

📍 Moscone West - 3009

17:30 - 17:45



C14C-07 Quantifying Persistent Spatial Variability in the Influence of Topography and Vegetation on Snow Depth in the Tuolumne River Basin: Implications for Prediction and Process Knowledge

Ian Wesley Bolliger¹, **Noah P Molotch**², **Alexei Pozdnoukhov**¹ and **Margaret S Torn**³, (1)University of California Berkeley, Berkeley, CA, United States, (2)University of Colorado at Boulder, Geography / INSTAAR, Boulder, CO, United States, (3)Lawrence Berkeley National Laboratory, Berkeley, CA, United States

📍 Moscone West - 3009

TUESDAY, 13 DECEMBER 2016



GC23D-1263 Modeling Sediment Transport to the Ganga-Brahmaputra-Meghna Delta

Jose Silvestre^{1,2}, Stephanie Higgins^{3,4} and Keith Steven Jennings^{3,4}, (1)University of Texas at San Antonio, San Antonio, TX, United States, (2)UNAVCO, Inc. Boulder, RESESS, Boulder, CO, United States, (3)University of Colorado at Boulder, Boulder, CO, United States, (4)Institute of Arctic and Alpine Research, Boulder, CO, United States

📍 *Moscone South - Poster Hall*

WEDNESDAY, 14 DECEMBER 2016

14:10 - 14:25

**H33R-03 Bark Beetles Modify the Impact of Snow Drought on Remotely Sensed Forest Productivity in the Southern Rocky Mountains, USA**

John F Knowles, University of Colorado at Boulder, INSTAAR, Boulder, CO, United States, Leanne Lestak, Institute of Arctic and Alpine Research, University of Colorado, Boulder, CO, United States and Noah P Molotch, University of Colorado at Boulder, Geography / INSTAAR, Boulder, CO, United States

📍 Moscone West - 3022

17:15 - 17:30

**C34C-06 Integrating Unmanned Aerial Vehicles and Terrestrial Structure from Motion Photogrammetry for Assessing High Mountain Glacier Change, Huaytapallana, Peru**

Oliver Wigmore¹, Bryan G Mark¹, Pablo Lagos², Lauren Dorothy Somers³, Jeffrey M McKenzie³, Kyung In Huh⁴, Chris Hopkinson⁵, Michel Baraer⁶ and Ryan Crumley⁷, (1)Ohio State University Main Campus, Columbus, OH, United States, (2)Instituto Geofísico del Perú, Lima, Peru, (3)McGill University, Montreal, QC, Canada, (4)California State Polytechnic University Pomona, Pomona, CA, United States, (5)University of Lethbridge, Lethbridge, AB, Canada, (6)Ecole de Technologie Supérieur, Montreal, QC, Canada, (7)Oregon State University, Corvallis, OR, United States

📍 Moscone West - 2000

THURSDAY, 15 DECEMBER 2016

11:52 - 12:10

**U42A-06 Hydrologic Response to Changes in the Timing and Rate of Snowmelt: Implications for Water Resource Management in the Western U.S. (Invited)**

Noah P Molotch^{1,2}, Adrian Adam Harpold³, Theodore B Barnhart¹ and Ernesto Trujillo⁴, (1)University of Colorado at Boulder, Geography / INSTAAR, Boulder, CO, United States, (2)Jet Propulsion Laboratory, Pasadena, CA, United States, (3)University of Nevada Reno, Natural Resources and Environmental Science, Reno, NV, United States, (4)Swiss Federal Institute of Technology Lausanne, Lausanne, Switzerland

📍 Moscone South - 102

13:40 - 18:00



13:40 - 18:00

NS43C-1937 Integrating Multiple Geophysical Methods to Quantify Alpine Groundwater-Surface Water Interactions: Cordillera Blanca, Peru

Robin Lee Glas¹, Laura Lautz¹, Jeffrey M McKenzie², Emily Alyssa Baker¹, Lauren Dorothy Somers², Caroline Aubry-Wake², Oliver Wigmore³, Bryan G Mark³ and Robert Moucha⁴.
(1)Syracuse University, Syracuse, NY, United States. (2)McGill University, Montreal, QC, Canada. (3)Ohio State University Main Campus, Columbus, OH, United States. (4)Syracuse University, Earth Sciences, Syracuse, NY, United States

📍 Moscone South - Poster Hall

**EP43C-0975 Influence of Microclimate on Semi-Arid Montane Conifer Forest Sapflux Velocity in Complex Terrain**

Kevin Ryan Thirouin^{1,2}, Dave Michael Barnard² and Holly R Barnard¹.
(1)University of Colorado at Boulder, Boulder, CO, United States. (2)Institute of Arctic and Alpine Research, Boulder, CO, United States

📍 Moscone South - Poster Hall

14:55 - 15:10

**C43C-06 The Presence of Hydraulic Barriers in Layered Snowpacks: Simulations using TOUGH2 and Diversion Length Estimates**

Ryan Webb¹, Steven R Fassnacht², Michael N Gooseff¹ and Stephen Webb³.
(1)Institute of Arctic and Alpine Research, Boulder, CO, United States. (2)Colorado State University, Fort Collins, CO, United States. (3)Canyon Ridge Consulting, Sandia Park, NM, United States

📍 Moscone West - 3005

FRIDAY, 16 DECEMBER 2016

08:00 - 12:20



C51B-0656 Assessing the Climate Sensitivity of Cold Content and Snowmelt in Seasonal Alpine and Subalpine Snowpacks

Keith Steven Jennings, University of Colorado at Boulder, Boulder, CO, United States and Noah P Molotch, University of Colorado at Boulder, Geography / INSTAAR, Boulder, CO, United States

📍 Moscone South - Poster Hall



C51C-0669 Catchment-scale snow depth monitoring with balloon photogrammetry

Dongyue Li¹, Oliver Wigmore¹, Benjamin J Vanderjagt¹, Michael T Durand¹, Noah P Molotch² and Roger C Bales³, (1)The Ohio State University, Columbus, OH, United States, (2)University of Colorado at Boulder, Geography / INSTAAR, Boulder, CO, United States, (3)University of California Merced, Merced, CA, United States

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C51D Snowmelt Driven Hydrological Processes Posters

Ryan Webb, Steven R Fassnacht, Ryan Webb, Ryan Webb and Steven R Fassnacht, Colorado State University, Fort Collins, CO, United States

📍 Moscone South - Poster Hall

8:45 - 9:00

H51N-05 Bidirectional Response of Runoff to Changes in Snowmelt Rate, Timing, and Amount
Theodore B Barnhart¹, Noah P Molotch¹ and Christina (Naomi) Tague², (1)University of Colorado at Boulder, Geography / INSTAAR, Boulder, CO, United States, (2)University of California Santa Barbara, Bren School of Environmental Science & Management, Santa Barbara, CA, United States

📍 Moscone West - 3022

16:30 - 16:45



GC54C-03 Climate in the glaciated central Peruvian Andes observed since 1921: Trends in maximum, minimum, mean and DTR surface air temperature

Pablo Lagos¹, Bryan G Mark², Jeffrey M McKenzie³, Michel Baraer⁴, Oliver Wigmore², Lauren Dorothy Somers³ and Yosselyn Ccasani¹, (1)Instituto Geofísico del Perú, Lima, Peru, (2)Ohio State University Main Campus, Columbus, OH, United States, (3)McGill University, Montreal, QC, Canada, (4)Ecole de Technologie Supérieure, Montreal, QC, Canada

📍 Moscone West - 3005