



2020 Yosemite Hydroclimate Meeting, 20th

Sponsored by Yosemite Resources Management and Science

Virtual, wishing we were in Yosemite National Park

Thursday, October 15

- 12:00-12:15 **Welcome and Meeting Logistics**
Nicole Athearn, Yosemite Resources Management and Science Chief, and Greg Stock, Park Geologist
- 12:30-12:45 **Tropical Systems, Lightning, and Water Year Whiplash**
Jeff Barlow, Senior Meteorologist, National Weather Service, Hanford
- 12:45-1:15 **Landscape Level Biomass Removal**
Garrett Dickman, Vegetation and Forest Management, Yosemite NP
- 1:15-1:45 **Impacts of Fire on Microclimates, Hydrology, and Vegetation in the Illilouette Creek Basin**
Gabrielle Boisramé, Ekaterina Rakhmatulina, Scott Stephens, and Sally Thompson, UC Berkeley
- 1:45-2:15 **Influence of Snow Accumulation and Ephemerality on Recent Tree Mortality in the Sierra Nevada**
Stefano Casirati, Martha Conklin, Safeeq Khan, UC Merced
- 2:15-2:45 **ASTER & Airborne Thermal Imager of Snow & Forests in Upper Tuolumne**
Calista Moore, Steven Pestana, Chris Chickadel, Jessica Lundquist, UW
- 2:15-2:45 **Four Years of Glide Avalanche Monitoring at Olmstead Point, YNP**
Ned Bair - UCSB, Susan Burak, Snow Survey Assoc., Steven Pestana and Jessica Lundquist, Univ. of Washington
- 3:15-3:45 **A Comparison of Historical Gridded Climate Datasets and the Implications For Uncertainty for Hydrologic Modeling in the Sierra Nevada, CA**
Michelle Stern, Lorrie Flint, Alan Flint, and Jim Thorne, USGS & UC Davis
- 3:45-4:15 **Improving Snowpack Simulations in an Alpine Basin by Blending Precipitation Gauge and Snow Pillow Measurements**
Norman Pelak, Mohammad Sohrabi, Mohammad Safeeq, and Martha Conklin, UC Merced
- 4:15-4:45 **Physical Processes Associated with the Formation, Maintenance, and Erosion Of a Cold Pool in Complex Terrain**
Bianca Adler, James Wilczak, Laura Bianco, Irina Djalalova, James Duncan, and David Turner, CIRES & NOAA, UC Boulder

4:45-5:15 **Restoration of the Merced River Through Yosemite Valley**
Derek Booth et al., UC Santa Barbara

Friday, October 16

12:00-12:45 **Instrumentation, WY2020 Recap, Telemetry Network Upgrades, DWR Snow Sensor and Stream Gage Plans/Upgrades - Roundtable**
Cat Fong and Rachel Hallnan, Moderators, YNP

12:45-1:15 **Changing Climate Reallocates the Carbon Debt of Sierra Nevada Mixed-Conifer Forests**
Marissa Goodwin, Malcolm North, Harold Zald, and Matthew Hurteau, Univ. New Mexico

1:15-1:45 **The Sierra Nevada as a Carbon Sink in a Warming Climate**
Weichao Guo, Mohammad Safeeq, Goutao Cui, Michael Goulden, and Roger Bales, UC Merced

1:45-2:15 **Could Increased Summer Rains Save Mountain Ecosystems as Snow Disappears?**
Jessica Lundquist, Kristen Rasmussen, Sarah Kapnick, Melissa Wrzesien, Tamlin Pavelsky, Jeff Dozier, Laura Hinkelman, and Michael Durand, UW and more

2:15-2:45 **Snowmelt Causes Different Limitation on Transpiration in a Sierra Nevada Conifer Forest**
Adrian Harpold and Ava Cooper, Univ. Nevada-Reno, CW3E / Scripps IO

2:45-3:15 **Water-Stress Vulnerability of Giant Sequoia Groves During Extended Droughts**
Guotao Cui and Roger Bales, UC Merced

3:15-3:45 **Using Diel Observations to Diagnose Snowmelt and Predict Changes in Streamflow Timing**
Sebastian Krogh and Adrian Harpold, UNR

3:45-4:15 **Rain on Snow – The Basic Science**
Bruce McGurk, Randall Osterhuber, and Rick Kattelman

4:15-4:45 **Water Year Review and Outlook, and Climatological Trends**
Michael Anderson, CA DWR

4:45-5:15 **Group Discussion & Close-** Greg Stock, Bruce McGurk, and Mike Dettinger