



2022 Yosemite Hydroclimate Meeting, 22nd

Sponsored by Yosemite Resources Management and Science

Yosemite Valley Auditorium, Yosemite National Park

Thursday, October 13

9:00-9:10 **Welcome and Meeting Logistics**
Greg Stock, Park Geologist

9:10-9:30 **Spring Snowpack Influences in the Volume and Timing of Spring and Peak Season Overnight Visitation to Yosemite Wilderness**
Jeffrey Jenkins, UC Merced

9:30-9:50 **Incorporating Uncertainty and Erratic Weather into Hetch Hetchy Water And Power Operations Planning**
Harrison Forester, HHWP - Moccasin

9:50-10:00 **Field Report: Emerging Mortality in Upper Montane and Subalpine Forests of Sierra Nevada National Parks**
Kimiora Ward, NPS – El Portal

10:00-10:30 Break

10:30-10:50 **150 Years of Glacier Studies in Yosemite: Reproducing John Muir’s 1872 Velocity Measurements of the Maclure Glacier**
Greg Stock, NPS – El Portal

10:50-11:10 **Five Years Later: Assessing Performance of Riverbank Restoration Projects on the Merced River**
Erin Dickman, NPS – El Portal

11:10-11:30 **Exploring Precipitation Estimates from MRMSv.12 During Summertime Precipitation**
Pete Fickensher, NWS-CNRF - Sacramento

11:30-11:50 **Fisher MM05: Inspirational Story of How One Fisher Navigated through A High-Risk Environment Impacted by Drought, Tree Mortality, & Fire**
Tessa Smith, NPS – El Portal

11:50-12:10 **Modeling Runoff Forecast Uncertainty Using Maps of Snow Water Equivalent to Condition Error Propagations**
Eli Boardman, UNR - Reno

12:10-1:30 **LUNCH**

Jan van Wagendonk Memorial “Fire in Yosemite” Session

1:30-1:50 **Current State of Forests and Fire in Yosemite National Park: Insights from Historical and Contemporary Monitoring**
Chad Anderson, NPS – El Portal



2022 Yosemite Hydroclimate Meeting

Sponsored by Yosemite Resources Management and Science

Thursday, October 13, *continued*

1:50-2:10 **Drought and Wildfire in Yosemite's Natural Fire Laboratory**
Gabrielle Boisrame, Desert Research Institute, UNR - Reno

2:10-2:30 **The Washburn Fire: A Management Success Story**
Lacey Hankin, NPS – El Portal

2:30-2:50 **The Chiropteran Fire Pulse: Vegetation and Hydro-Climate Mediate Changes in Bat Activity in Sierra Nevada Wilderness**
Zachary Steel, UC Berkeley

3:20-3:40 Break

3:40-4:00 **Evaluating Short- and Long-Term Climate Change Effects on Fire the Sierra Nevada**
Ryan Bart – UC Merced

4:20-4:40 **Temperature and Soil Moisture Change from Low-Severity Fire in the Illilouette Creek Basin**
Gabe Lewis, UNR - Reno

4:40-5:10 **Drivers of Lightning-Ignition Efficiency in California Forests**
Ashwin Thomas, UC Merced

Friday, October 14

9:00-10:00 **Instrumentation, WY2022 Recap, Telemetry Network Upgrades, DWR Snow Sensor and Stream Gage Plans/Upgrades - Roundtable**
Cat Fong and Rachel Hallnan, Moderators

10:00-10:20 **Truly a Race Against Time: Accelerated Amphibian Metamorphosis in the Face of Extreme Drought – There Is Hope!**
Rob Grasso, NPS – El Portal

10:20-10:45 Break

10:45-11:05 **Springing into Action: An Inventory of Yosemite's Groundwater Springs**
Noah Hoffman, NPS – El Portal

11:05-11:25 **Geographic, Hydrological, and Climatic Significance of Rock Glaciers In the Great Basin, USA**
Connie Millar and Bob Westfall, Lee Vining and Davis, USDA – Ret.

11:25-11:45 **Experimental Probabilistic Wind Gust Forecasts for Yosemite National Park**
Kris Mattarochia, NWS - Hanford

11:45-12:15 **Group Discussion & Close-** Greg Stock and Bruce McGurk