



## Agenda

# Improving Sub-Seasonal to Seasonal (S2S) Precipitation Forecasting



Sponsored by  
Western States Water Council and California Department of Water Resources

May 22-24, 2019

Doubletree San Diego Downtown  
1646 Front Street, San Diego, CA

### Wednesday, May 22

- 11:00 **Registration**
- 1:00 **Welcome and Opening Remarks, Workshop Background, & Desired Outcomes** –  
Tony Willardson, Western States Water Council  
Jeanine Jones, California Department of Water Resources (CDWR)
- 1:30 **Weather Research Act Implementation, S2S Report to Congress** – Dave DeWitt, National  
Weather Service, Climate Prediction Center
- 2:15 **Developing an Experimental Statistical Seasonal Forecast for California** -- Rong Fu,  
University of California, Los Angeles
- 3:00 **Opportunities to Use Machine Learning to Improve S2S Forecasting Ability** – Luca Delle  
Monache, University of California, San Diego (UCSD)
- 3:45 **Break**
- 4:00 **Gaps in Ocean Observations to Support Forecasting** – Bruce Cornuelle, UCSD
- 4:45 **Scripps Atmospheric Rivers Summer School** – Will Chapman, UCSD
- 5:00 **Adjourn**
- 5:30 **Reception**

### Thursday, May 23

- 8:00 **Continental Breakfast**
- 8:30 **Overview of CDWR Efforts on S2S Forecasting Improvement** – Jeanine Jones, CDWR
- 9:00 **CDWR-NOAA Project for Weeks 1-4 Modeling Improvements** – Mike Anderson, CDWR and  
Matt Switanek, NOAA Earth Systems Research Lab
- 10:00 **Break**

- 10:15 **Experimental Forecasts of West Coast Atmospheric Ridging** – Peter Gibson, NASA Jet Propulsion Lab
- 11:00 **Results of Experimental Week-3 Atmospheric River Forecast for the 2019 Russian River Flood Event** – Mike DeFlorio, UCSD
- 11:45 **Lunch** (on your own)
- 1:15 **S2S Prediction Research at Colorado State University** – Eric Maloney, Colorado State University
- 2:00 **Understanding Western Cool Season Precipitation from Tree-Ring Reconstructions** – Park Williams, Columbia University
- 2:45 **Break**
- 3:00 **SRP's Snow Water Artificial Neural Network + S2S** – Bo Svoma, Salt River Project
- 3:45 **Missouri River Hydroclimatology and Paleo Background** -- Connie Woodhouse, University of Arizona
- 4:30 **Missouri River Operational Setting and Background** – Cary Talbot, USACE Engineer Research & Development Center
- 5:15 **Adjourn**

## **Friday, May 24th**

- 7:30 **Continental Breakfast**
- 8:00 **Nebraska's 2019 Flood Season – What Happened, At What Lead Times Might it Have Been Predicted?** – Martha Shulski, University of Nebraska (by phone)
- 8:45 **Needs for S2S Prediction of Summer Precipitation for Agricultural Water Users** – Laura Edwards, South Dakota State University
- 9:30 **USACE's National Portfolio Assessment for Water Supply Allocations** – Jeannette Baker, USACE Institute for Water Resources
- 10:15 **Break**
- 10:30 **Potential for Forecast-Informed Reservoir Operations at USACE Reservoirs in Kansas** – Cara Hendricks, Kansas Water Office
- 11:15 **Precipitation Sources for Lake Mead Watershed and Implications for Predictability** -- Mike Sierks, UCSD
- 12:00 **Adjourn**