**AGENDA**

**Workshop**

**Improving Sub-Seasonal and Seasonal Precipitation Forecasting**

**Sponsored by**

**Western States Water Council and California Department of Water Resources**

**June 7-9, 2016**

**Doubletree San Diego Downtown**

**1646 Front Street, San Diego, CA**

**Tuesday June 7**

11:00 **Registration**

1:00 **Welcome and Opening Remarks, Workshop Background & Desired Outcomes**

 Tony Willardson, Executive Director, Western States Water Council (WSWC)

 Jeanine Jones, Interstate Resources Manager, California Department of Water Resources (CDWR)

1:45 Review of Recent NOAA/WSWC Collaboration Activities – Jeanine Jones, CDWR

2:15 Water Year 2016 – What was Predicted and What the West Received – Mike Anderson, State Climatologist, CDWR

3:00 Break

3:15 Water Year 2016 – What Happened with the Communications and with the Forecast? (Group Discussion)

4:00 Communicating Probabilistic Outlooks – Roger Pierce, Meteorologist-in-Charge, and Alex Tardy, Warning Coordination Meteorologist and Decision Support Services Lead, San Diego Weather Forecast Office

5:00 Adjourn

**Wednesday June 8**

8:00 Continental Breakfast

8:30 New NAS Report on a Research Agenda to Advance S2S Forecasting – Duane Waliser, Chief Scientist, Earth Science & Technology Directorate, NASA Jet Propulsion Laboratory (JPL)

9:15 Seasonal Precipitation Forecasting Improvement Project & Relationship to NOAA Week 3/Week 4 Initiative – Dave DeWitt, Director NOAA Climate Prediction Center

10:00 Break

10:15 Example Research Activities

 Status of HiFLOR Model Development – Sarah Kapnick, Physical Research Scientist, NOAA's Geophysical Fluid Dynamics Laboratory

 Atmospheric River Observations – Marty Ralph, Director, Center for Western Weather & Water Extremes, Scripps Institution of Oceanography

 AR/MJO Predictability – Duane Waliser, Chief Scientist, NASA JPL

12:00 Lunch (on your own)

1:30 Example Programmatic Activities

 NOAA CPO S2S Prediction Initiatives and Scientific Opportunities in High-Resolution Modeling – Heather Archambault, Modeling, Analysis, Predictions & Projections, NOAA Climate Program Office

 USBR R&D Program – Kenneth Nowak, Water Availability Research Coordinator, USBR

 Pending Congressional Legislation – WSWC

3:15 Break

3:30 Low-Hanging Fruit, Where Do We Go Next? (Facilitated Discussion)

4:45 Summary & Report Out

5:00 Adjourn

**Thursday June 9**

8:00 Continental Breakfast

8:30 Potential Applications/Users for Improved S2S Forecasts

 California DWR Statistical Modeling Example – Kwabena Asante, GEI Consultants, Inc.

 Texas Water Development Board (TWDB) Statistical Modeling Example – Nelun Fernando, Hydrologist, TWDB

 USDA Western Extension Research: Climate Information for Agriculture & Natural Resources – Nolan Doesken, Colorado State Climatologist, Colorado State University

10:15 Break

10:30 Water Year 2017, What Could We Do/Say? (Group Discussion)

11:30 Action Items & Closing Remarks

12:00 Adjourn