

Annual Progress Meeting on Reclamation Climate and Hydrology Research

Meeting Agenda

Wednesday, October 3, 2012

8:30 a.m. - 4:30 p.m.

Bureau of Reclamation, Federal Center
Building 67, Rio Grande Room

Purpose:

Exchange information about Reclamation research projects addressing climate change impacts on hydrology, with special focus on flood hydrology and extreme storm events.

Outcomes:

1. Share progress and findings from projects that address:
 - Theme 1: drivers of extreme precipitation and runoff events in the Colorado Front Range and Headwaters region, and climate change implications for these drivers
 - Theme 2: role of moisture transport in extreme precipitation events within the intermountain West, and what this means for storm classification
 - Theme 3: sensitivity of portraying hydrologic impacts under climate change to downscaling and hydrologic modeling approaches
2. Discuss future directions for these and other hydrology and climate-related research projects
3. Hear from partner agencies on related activities (DOE ORNL, USACE IWR)

	8:30 - 8:45	Introductions	<i>Levi Brekke/Chuck Hennig</i>	USBR/R&D
Theme #1	8:45 - 9:45	Improving extreme precipitation estimation and climate change projections using regional and high-resolution model simulations	<i>Kelly Mahoney</i>	NOAA/ESRL
	9:45 - 10:00	BREAK		
	10:00 - 10:30	Ingredients-based climatology and future projections of extreme precipitation events using a NWP framework	<i>Jason Caldwell</i>	USBR/Flood
	10:30 - 11:00	Climate change and Green Mountain Dam	<i>Victoria Sankovich</i>	USBR/Flood
	11:00 - 11:30	Linking extreme precipitation and floods: implications for climate change scenarios	<i>Jeanne Godaire</i>	USBR/Paleo
Theme #2	11:30 - 12:30	Diagnosing the moisture sources for extreme precipitation events in the intermountain west	<i>Mike Alexander</i>	NOAA/ESRL
	12:30 - 13:00	WORKING LUNCH (Jason's Deli - Please Bring Exact Cash)		
	13:00 - 13:30	Methodology and data for quantifying extreme precipitation events in a changing climate	<i>John England</i>	USBR/Flood
#3	13:30 - 14:30	Sensitivity of hydrologic impacts assessment to downscaling methodology and spatial resolution	<i>Martyn Clark</i>	UCAR/NCAR
	14:30 - 14:50	BREAK		
	14:50 - 15:10	A quantitative assessment framework for potential climate impacts on national hydropower generation	<i>Shih-Chieh Kao</i>	DOE/ORNL
	15:10 - 15:30	USACE Non-Stationarity	<i>David Raff</i>	USACE
	15:30 - 15:45	New and related Projects at USBR (Distributed Weather Data Comparisons, Streamflow Predictability, CMIP5, COMET Training)	<i>Levi Brekke</i>	USBR/R&D
	15:45 - 16:00	BREAK		
	16:00 - 16:30	Wrap Up/ Discussion/Future Directions	<i>Levi Brekke/Chuck Hennig</i>	USBR/R&D