

Friday 9

ARs in the Past and the Future + Emergent Topics

Session chair: Marty Ralph

Notice: Time is relative to 1300 UTC



Moderators	Tin	Type	Abstract ID	Last Name	First Name	Institution	Abstract title
Alexandre Ramos & Maximiliano Viale	0:00	Intro Remarks		Ralph	Marty	CW3E, Scripps Institution of Oceanography, UC San Diego, USA	
	0:05	Keynote		Pappenberger	Florian	ECMWF	TBD
	0:25	Talk/1	IARCS/041	Menemenlis	Sofia	Yale University, USA	Atmospheric rivers influenced by stationary wave changes in model of mid-Pliocene climate
	0:31	Talk/2	IARCS/119	Skinner	Christopher	University of Massachusetts Lowell, USA	Atmospheric river changes shaped mid-latitude hydroclimate since the mid-Holocene
	0:37	Talk/3	IARCS/059	Slinsky	Emily	Portland State University, United States	Climate Change Effects on Atmospheric Rivers over the Continental United States
	0:43	Talk/4	IARCS/010	Shields	Christine	NCAR	Meridional heat transport and atmospheric rivers under climate change
	0:49	Talk/5	IARCS/025	Rhoades	Alan	Lawrence Berkeley National Laboratory	Projecting the role of atmospheric rivers in Chilean hydroclimatic extremes using variable-resolution CESM
	0:55	Discussion					
1:05	Break						
Rene Garreaud & Alexandre Ramos	1:10	Lightning/1	IARCS/022	Parrish	Jack	NOAA Aircraft Operations Center US	Much more than a name change for aircraft crews: The transformation from Winter Storm Reconnaissance to Atmospheric River Reconnaissance (2013-2020)
	1:12	Lightning/2	IARCS/089	Zheng	Minghua	UC San Diego/SJO/CW3E, the United States	Data Gaps within Atmospheric Rivers over the Northeastern Pacific
	1:14	Lightning/3	IARCS/120	Murphy	Michael	Scripps Institution of Oceanography, USA	Depth of Penetration of GNSS Radio Occultation Observations in Atmospheric Rivers
	1:16	Lightning/4	IARCS/004	Fox	Alan	Fox Weather	A Tool for Forecasting Areas of Cyclogenesis Tendency out to 30 Days
	1:18	Lightning/5	IARCS/080	Albano	Christine	Desert Research Institute, United States	Assessment of wintertime streamflow forecast skill in an atmospheric river-influenced river basin on the lee side of the Sierra Nevada
	1:20	Lightning/6	IARCS/114	Heggli	Anne	University of Nevada, Reno	Towards Improved Decision Support in Snow-Dominated Watersheds During Extreme Weather
	1:22	Lightning/7	IARCS/086	O'Brien	Travis	Indiana University Bloomington, USA	Uncertainty in Current and Projected Atmospheric Rivers: A call for process-oriented constraints on AR detection
	1:24	Discussion					
1:34	Break						
Natalia Tilina & Christine Albano	1:39	Talk/6	IARCS/031	Cowan	Willie J	USC, USA	"But Chinook-Wind returned in the form of rain": Indigenous Knowledge of Atmospheric Rivers, Winter Storms, and Great Floods on the Pacific Slope
	1:45	Talk/7	IARCS/026	Swain	Daniel	University of California, Los Angeles, USA	ARkStorm 2.0: Developing a new extreme atmospheric river storm scenario for 21st century California
	1:51	Talk/8	IARCS/082	Black	Peter	I.M. Systems Group, Miami, FL, USA	Joint Operations of AR Recon 2020 and IMPACTS 2020 for Simultaneous Aircraft Sampling of USA West Coast and East Coast Winter Weather Systems
	1:57	Talk/9	IARCS/115	Delle Monache	Luca	CW3E, Scripps Institution of Oceanography, UC San Diego, USA	A Convolutional Neural Network for improved Precipitation Prediction
	2:03	Talk/10	IARCS/015	Waliser	Duane	Jet Propulsion Lab. (NASA), USA	Atmospheric Aerosol Rivers: Climate and Air Quality Impacts
	2:09	Discussion					
2:19	Break						
Jorge Eiras & James McPhee	2:24	Lightning/8	IARCS/053	Gonzalez-Hirshfeld	Ilan	Portland State University, USA	Climate Model Evaluation of Atmospheric Rivers over the Continental United States
	2:26	Lightning/9	IARCS/029	Zhang	Pengfei	Penn State University, USA	Atmospheric river response to global warming in an idealized GCM with Earth-like global circulation and hydrological cycle
	2:28	Lightning/10	IARCS/012	Dougherty	Erin	National Center for Atmospheric Research, USA	Future Changes in the Hydrologic Cycle Associated with Flood-Producing Storms in California
	2:30	Lightning/11	IARCS/055	Sousa	Pedro	Instituto Dom Luiz (IDL-FCUL)	Future changes in Western Europe moisture transport and precipitation regimes in a warming planet
	2:32	Lightning/12	IARCS/021	Ma	Weiming	University of California, Los Angeles, USA	Thermodynamic and Dynamic Controls on the Recent Poleward Shift of Atmospheric Rivers in the Southern Hemisphere
	2:34	Lightning/13	IARCS/074	Mo	Ruping	National Laboratory-West, Environment and Climate Change Canada	Does the Atmospheric River Story Have a Prequel in the 1930s? A Revisit to the Moist Tongues Identified by Rossby and His Collaborators
	2:36	Lightning/14	IARCS/091	Gonzales	Katerina	Stanford University, USA	Trends & Impacts of Moisture vs. Wind Dominated Flavors of Atmospheric Rivers
	2:38	Lightning/15	IARCS/090	Anderson	Michael	CA Department of Water Resources, USA	Connecting Research of Past, Present, and Future Atmospheric Rivers to the Central Valley Flood Protection Plan
	2:40	Discussion					
	2:50	Closing Remarks		Garreaud	Rene	Universidad de Chile	
3:00	Break out room discussion						