

Tuesday 11: PD: Physical and Dynamical aspects + PF: ARs in Past and Future Climates

Time (Chile: UTC-3)	Final Loc	First Author	Abstract
9:00-9:30	Keynote Marty Ralph (In person)		
9:30-9:45	R_PD1	Kimberley Reid (Invited)	An Overview of Atmospheric Rivers in Australia
9:45-10:00	R_PD2	Lance Bosart	North Pacific Poleward-Moving Tropical Cyclones, Atmospheric Rivers, and Extreme Weather Events over the Western United States in 2020 and 2021
10:00-10:15	R_PD3	Helen Dacre (Invited)	Linking atmospheric rivers and warm conveyor belt airflows
10:15-10:30	Discussion		
10:30-11:00	Break		
11:00-11:15	R_PD4	Benjamin Alessio	Impact of Atmospheric Rivers in the Mixing Layer on the Southeastern Pacific Ocean
11:15-11:30	R_PD5	Yang Zhou	Distinct Characteristics of Atmospheric River Flavors
11:30-11:45	R_PD6	Yosvany Garcia	Effects of atmospheric rivers in the coastal ocean off Chile
11:45-12:00	R_PD7	Deanna Nash	Influence of zero degree line on Atmospheric Rivers in High Mountain Asia: WRF case studies of orographic precipitation extremes
12:00-12:15	Discussion		
12:15-12:30	R_PD8	José Miguel Vicencio Veloso	Summer Atmospheric River-like structure along the subtropical West Coast of South America
12:30-12:45	R_PD9	Miguel Lagos-Zúñiga	A case study of climate sensitivity of AR-induced precipitation to warm sea surface temperatures
12:45-13:00	R_PD10	Diana FRANCIS	Dust Atmospheric Rivers over Europe
13:00-14:30	Lunch		
14:30-14:45	R_PD11	Kent MOORE	Climate change, atmospheric rivers and the November 14/15 2021 Pacific Northwest extreme rainfall event
14:45-15:00	R_PD12	Tyler Leicht	Understanding the two-way interactions between ARs and amplified Northern Hemisphere persistent flow regimes
15:00-15:15	R_PD13	Alison Cobb	The effect of SST anomalies on surface fluxes in U.S. West Coast atmospheric rivers and their downstream precipitation
15:15-15:30	R_PD14	Reuben Demirdjian	On the Influence of Surface Latent Heat Fluxes on Idealized Extratropical Cyclones
15:30-16:15	BOG1: 3-4 parallel rooms		
16:15-16:45	Break		
16:45	L_PD1	Kent Moore	Climate change, atmospheric rivers and the November 14/15 2021 Pacific Northwest extreme rainfall event
16:48	L_PD2	Alexander Lajko	The Remote Role of Upstream Mesoscale Jetstreaks on the Intensification of Euro-Atlantic Atmospheric Rivers
16:51	L_PD3	Chanil Park	Two flavors of atmospheric rivers in the North Pacific
16:54	L_PD4	Paul Loikith	How Does Secondary Cyclogenesis Impact Landfalling US West Coast Atmospheric Rivers?
16:57	L_PD5	Emily Silinsky	An Assessment of the Contribution of Non-Orographic Lift in Atmospheric River Precipitation
17:00	L_PD6	Meghan Stell	Bringing water to the west: Atmospheric river influence on orographic cloud microphysics and dynamics
17:03	L_PD7	TOMAS GOMEZ-ZAVALA	Identification of large-scale patterns leading to the formation of Atmospheric Rivers in mainland Chile
17:06	L_PD8	Diogo Luis	Relationship between atmospheric rivers, extratropical fronts and intense precipitation in the Iberian Peninsula
17:09	L_PD9	José Carlos Fernández Alvarez	Moisture sources projections under climate change for Atmospheric Rivers landfalling the Iberian Peninsula
17:12	6 min break		
17:15	6 min break		
17:18	L_PF1	Allison Michaelis	Climate Change Impacts the Storm that Contributed to California's Oroville Dam Crisis
17:21	L_PF2	Arjun Nellikkattil	Atmospheric Rivers of Past, Present and Future
17:24	L_PF3	Alan Rhoades	Recreating the California New Year's flood event of 1997 using regionally refined Earth system modeling across multiple warming levels
17:27	L_PF4	Juan P. Boisier	Influence of Atmospheric Rivers on the precipitation regime and change in Western Patagonia
17:30	L_PF5	Héctor A. Indo Díaz	Change in Size of Atmospheric Rivers Under Future Climate Scenarios. A Perspective Independent of the Detection Algorithm.
17:33	L_PF6	Venugopal Thandlam	Euro-Atlantic Atmospheric Rivers and the Upper Ocean Variability
17:36	L_PF7	Carlos Ordaz	Dynamics and Precipitation of Atmospheric Rivers that impact South America in Present, Last Glacial Maximum and Future Climate Conditions
17:39	L_PF8	Christopher Skinner	Atmospheric River Contributions to Ice Sheets at the Last Glacial Maximum
17:45-18:00	Discussion		