International Atmospheric River Conference 2024

24-27 June 2024
Scripps - University of California San Diego
La Jolla, California, USA

PST	Monday 24	Tuesday 25	Wednesday 26	Thursday 27
8.30-8.45	Welcome remarks	Keynote Luca Delle Monache	Keynote Mike Anderson	Keynote Anna Wilson
8.45-9.00	Keynote Michelle Maclennan			
9.00-9.15		Forecasting of ARs in different time scales(6 Talks)	Environmental & socioeconomic impacts of ARs (6 Talks)	Observing, identification, and monitoring of ARs (6 Talks)
9.15-9.30	Role of ARs in the changing Cryosphere (5 Talks)			
9.30-9.45				
9.45-10.00				
10.00-10.15				
10.15-10.30				
10.30-10.45	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10.45-11.00				
11.00-11.15	Role of ARs in the changing Cryosphere (2 Talks) --- ARs in past, present, and future climates (5 talks)	Forecasting of ARs in different time scales (2 Talks) --- Physical, dynamic, microphysics & aerosol aspects of ARs (5 Talks)	Environmental & socioeconomic impacts of ARs (7 Talks)	**Physical - Viale** Ted Scripps Room 11:00 - 11:45 / **Compound - Corringham** Robert Scripps Room 11:00 - 11:45
11.15-11.30				
11.30-11.45				
11.45-12.00				Break 11:45 - 11:55
12.00-12.15				**Observations - Shields** Ted Scripps Room 11:55 - 12:40 / **Impacts - Corringham** Robert Scripps Room 11:55 - 12:40
12.15-12.30				
12.30-12.40				
12.40-14.00	Lunch	Lunch	Lunch	Lunch
14.00-14.15	ARs in past, present, and future climates (3 talks) --- Physical, dynamic, microphysics & aerosol aspects of ARs (4 Talks)	**AR labeling - Shields** Main Room (Seaside) 14:00 - 14:45 / **Prediction - Zou** Ted Scripps Room 14:00 - 14:45	ARs as a component of compound events (7 Talks)	Observing, identification, and monitoring of ARs (6 Talks)
14.15-14.30				
14.30-14.45				
14.45-15.00		Break 11:45 - 11:55		
15.00-15.15		**Cryo breakout** Main Room (Seaside) 14:00 - 14:45 / **Projection - Zou** Ted Scripps Room 14:00 - 14:45		
15.15-15.30				
15.30-15.40				
15.40-16.00	Coffee Break	Coffee Break	Coffee Break	Coffee Break
16.00-16.20				
16.20-16.30	**Lightning Talks** **Poster session I** **Cryo+PPF+PDA**	Physical, dynamic, microphysics & aerosol aspects of ARs (7 Talks)	**Lightning Talks** **Poster session II** **Comp+FORE+OBS+SEI**	**Panel on Future Directions** **Closing session**
16.30 - 16.45				
16.45-17.00				
17.00-17.15				
17.15-17.30				
17.30-17.45				
17.45-18.00				
18:00-19:00	Reception			

Monday

PST **hh:mm**

Tin	dT	Tfin	Moderartors	Session	Abstract ID	Speaker	Format	Title
8:30	0:15	8:45	I. Gorodetskaya R. Garreaud	Welcome Remarks				
8:45	0:30	9:15		**ARs role on Cryosphere**	19	*Michelle Maclennan (KN)*	In person	Antarctic Atmospheric Rivers in Present and Future Climates
9:15	0:12	9:27			28	Zhenhai Zhang	In person	Extending the CW3E Atmospheric River Scale to the Polar Regions
9:27	0:12	9:39			25	Xun (Jerry) Zou	In person	The Atmospheric River and Foehn Warming Effects over the Antarctic Peninsula
9:39	0:12	9:51			24	Chen Zhang	In person	Quantifying the Impacts of Atmospheric Rivers on the Surface Energy Budget of the Arctic Based on Reanalysis
9:51	0:12	10:03			17	Deniz Bozkurt	Virtual	Atmospheric river brings warmth and rainfall to the northern Antarctic Peninsula during the mid-austral winter of 2023
10:03	0:12	10:15			18	Georges Djoumna	Virtual	Atmospheric Rivers, and their effects on the Surface Radiation Balance in the Amundsen Sea Embayment
10:15	0:15	10:30		**Discussion**				
10:30	0:30	11:00	Coffee Break					
11:00	0:12	11:12	D. Lavers J. Zou	**ARs role on Cryosphere**	20	Rebecca Baiman	Virtual	Synoptic and Planetary-Scale Dynamics Modulate Antarctic Atmospheric River Precipitation Intensity
11:12	0:12	11:24			143	Irina Gorodetskaya	In person	Precipitation and melt over the Antarctic Peninsula: the role of intense atmospheric rivers
11:24	0:12	11:36		**ARs in past, present and future climates**	110	Juan M. Lora	In person	The global response of atmospheric rivers to glacial conditions and their influence on ice sheets at the Last Glacial Maximum
11:36	0:12	11:48			113	Ferran Lopez-Marti	In person	Changes in the concurrence of atmospheric rivers and explosive cyclones in the North Atlantic
11:48	0:12	12:00			109	Hunter Martinez-Buehrer	Virtual	High-Resolution Modeling of the December 2022 – January 2023 High Impact Series of Landfalling Atmospheric Rivers Along the U.S. West Coast
12:00	0:12	12:12			116	Weiming Ma	In person	The Role of Interdecadal Climate Oscillations in Driving Observed Arctic Atmospheric River Trends over 1981-2021
12:12	0:12	12:24			119	William Rush	In person	Atmospheric River Detection Under Changing Seasonality and Mean-State Climate: ARTMIP Tier 2 Paleoclimate Experiments
12:24	0:16	12:40		**Discussion**				
12:40	1:20	14:00	Lunch					
14:00	0:12	14:12	C. Shields R. Garreaud	**ARs in past, present and future climates**	120	Sophia Macarewich	In person	Atmospheric river activity over the past ~56 million years in an unprecedented set of high-resolution Community Earth System Model simulations
14:12	0:12	14:24			112	Lujia Zhang	Virtual	Characterizing Present and Future Atmospheric Rivers Globally in CMIP6 Models
14:24	0:12	14:36			108	Zhiqi Yang	In person	Temporal clustering of unique atmospheric river events impacting the Western U.S.: seasonality and relationship to climate mode variability
14:36	0:12	14:48		**Phys., dyn., microphysic & aerosol aspects of ARs**	96	Christoph Renkl	In person	Diabatic Amplification of Atmospheric River Intensity by Marine Heatwaves: Multi-Scale Air-Sea Interaction and Implications for Marine Heatwave Dissipation
14:48	0:12	15:00			81	Bin Guan	Virtual	Large-Scale Circulation Context for North American West Coast Atmospheric Rivers: Influence of the Subseasonal NPO/WP Teleconnection
15:00	0:12	15:12			142	Jason Box	Virtual	Are rapids in atmospheric rivers real?
15:12	0:12	15:24			3	Diogo Luís	In person	Modelling aerosol-cloud-precipitation processes in the Iberian Peninsula using the WRF-CHIMERE coupled model: Storm Ana case study
15:24	0:16	15:40		**Discussion**				
15:40	0:40	16:20	Coffee Break					
16:20	0:03	16:23	M. Warner J. Zou	ARs role on Cryosphere	26	Rudradutt Thaker	Lightning Presentation - Virtual	May the AR-Force Be with You : Unraveling Arctic Atmospheric Rivers and Sea-Ice Uncertainties
16:23	0:03	16:26			29	Rosa Vellosa Lyngwa		Atmospheric Rivers over Himalayan Basins: Understanding their Impacts and Dynamics
16:26	0:03	16:29		ARs in past, present and future climates	107	Alexa Henny		Historical changes in atmospheric river characteristics in reanalysis datasets
16:29	0:03	16:32			117	Gleisis Alvarez Socorro		Changes in the moisture sources of Atmospheric Rivers affecting the US East Coast: a Lagrangian approach
16:32	0:03	16:35			118	Vicente Antonio Cuevas Acuña		Effects of Local SST Perturbations on an AR Event in Chile, using WRF Model
16:35	0:03	16:38		Phys., dyn., microphysic & aerosol aspects of ARs	80	Venugopal Reddy Thallam		Upper Ocean Variability and Euro-Atlantic Atmospheric Rivers
16:38	0:03	16:41			83	Dipjyoti Mudiar		Water Vapor and Heat Budget Evaluation in Atmospheric Rivers Associated with Heavy Rainfall Events in the Southern Andes
16:41	0:03	16:44			100	Alexander Lojko		An MPAS Model Case-Study Examining how Convection Embedded in an Atmospheric River Influences Jet Stream Evolution and Predictability
16:44	0:03	16:47			105	Tim Corrie III		The distortions of bias correction on the Western United States Dynamically Downscaled Dataset and its effects on Atmospheric Rivers
16:47	0:13	17:00		**Discussion**				
17:00	1:00	18:00		**Poster session I - Cryo+PPF+PDA (see abstract in separate sheet)**				
18:00	1:00	19:00	Reception					

Monday - Poster Session

Poster Session Monday 5-6 PM

Session	Abstract ID	Author	Title
Role of ARs in the changing Cryosphere	**13**	Tristan Rendfrey	When and why do atmospheric rivers influence Antarctic iceberg calving events?
	21	Russ Limber	Atmospheric Rivers can Prolong the Annual Breakup of Arctic River Ice
	22	Kaixin Liang	Synoptic-Scale Extreme Sea Ice Reduction Events in the Antarctic associated with atmospheric processes
	23	Alexander Y. Massa	Influence of Atmospheric Rivers on Arctic Sea Ice Variability in Low- and High-Resolution Climate Models
	27	Collin Matthew Richardson	Investigating the role of atmospheric rivers in mass anomalies detected by GRACE/GRACE-FO
ARs in past, present, and future climates	**111**	Emma Russell	Synoptic Drivers of Heavy Precipitation Days in the Upper Yuba Watershed of California
	114	Sachit Parekh	Climatological and Atmospheric Analysis of the Winter 2023 Atmospheric Rivers in Northern California
	115	Alexander Weyant	A Holistic Probabalistic Model of Multi-day Precipitation Events
Physical, dynamic, & microphysic aspects of ARs	**1**	Dr. Muhammad Zeeshaan Shahid	Seasonal Variations of Aerosols Concentrations and Aerosol Optical Properties along the Indus and Gangetic plain in South Asia
	85	Joseph Riedl	Impacts of mesoscale frontal waves and secondary cyclogenesis on atmospheric rivers that result in heavy precipitation in the Green River Watershed, Washington.
	86	Wen-Shu Lin	Characteristics of Precipitation Patterns in Moist-dominated versus Wind-dominated Atmospheric Rivers Making Landfall on Western North America
	89	Suma Bhanu Battula	Characteristics and skill of atmospheric river-related and non-atmospheric river-related extreme precipitation over the Southeast U.S.
	91	David Lavers	A FORECAST EVALUATION OF THE NORTH PACIFIC JET STREAM
	93	Seung Hun Baek	Atmospheric river variability over the last millennium driven by annular modes
	98	Rosa Luna-Niño	Atmospheric River Sensitivity to Convection: Insights from WRF Simulations
	99	Diya Kamnani	Seasonality of Atmospheric River Frequency Depends on Location, Year and Detection Algorithm
	103	Yazmina Rojas Beltran	Role of atmospheric rivers in the variation of rain shadow strength over the southern Andes
	106	Keqin Wu	Advancing the Development of Atmospheric River Analysis and Forecast System (AR-AFS): Impacts of Physics and Domain Size on Precipitation Forecasts

Tuesday

PST **hh:mm**

Tin	dT	Tfin	Moderartors	Session	Abstract ID	Speaker	Format	Title
8:30	0:30	9:00	A. Wilson M. Viale	**Forecasting of ARs in several time scales**	38	*Luca Delle Monache (KN)*	In Person	West-WRF 200-Member Ensemble and Deep Learning for the Prediction of Extreme Events Associated with Atmospheric Rivers
9:00	0:12	9:12			50	Vijay Tallapragada	In Person	Review of Progress in Advancing Aircraft Reconnaissance Observations for Improving Precipitation Forecasts Associated with Atmospheric Rivers
9:12	0:12	9:24			48	Ryan Torn	In Person	Application of Ensemble Sensitivity to ECMWF Forecasts During AR Recon
9:24	0:12	9:36			47	Xingren Wu	In Person	Assessing the Impact of Dropsonde Data on NCEP Operational GFS Forecasts during the 2023-2024 Atmospheric River Reconnaissance
9:36	0:12	9:48			51	Minghua Zheng / **Jia Wang**	Virtual	Impact of Atmospheric River Reconnaissance Dropsonde Data on the Assimilation of Satellite Radiance Data in GFS
9:48	0:12	10:00			45	William D. Scheftic	In Person	What is the ideal ensemble size to reduce the uncertainty in the skill of West-WRF hydrometeorological forecasts over California?
10:00	0:12	10:12			46	Murali Nageswara Rao Malasala	In Person	A Deep Learning-based Ensemble Post-processing Method for Atmospheric Rivers and Associated Precipitation Forecasts on Sub-seasonal Scale for the U.S. West Coast
10:12	0:18	10:30		**Discussion**				
10:30	0:30	11:00	Coffee Break					
11:00	0:12	11:12	L. delle Monache M. Viale	**Forecasting of ARs**	31	Kimberley Reid	In Person	Atmospheric Water Vapour Transport in ACCESS-S2 and the Potential for Enhancing Skill of Subseasonal Forecasting of Precipitation
11:12	0:12	11:24			141	Nathaniel Johnson	In Person	Sources of Seasonal Atmospheric River Predictability over North America Diagnosed from the GFDL SPEAR Model
11:24	0:12	11:36		**Phys., dyn., microphysic & aerosol aspects of ARs**	102	Alexandre M. Ramos	In Person	The role of Dry Intrusions in the formation and intensification of Atmospheric Rivers in the North Atlantic
11:36	0:12	11:48			90	Diana Francis **(pre recorded)**	Virtual	Atmospheric Rivers over the Arabian Peninsula and Their Role in Extreme Rainfall Events
11:48	0:12	12:00			101	Sara M. Vallejo-Bernal	In Person	Using Complexity Science to Reveal the Dynamics and Impacts of Atmospheric Rivers in North America
12:00	0:12	12:12			79	Florencia Ghetti Paciaroni	Virtual	RAIN SHADOW EFFECT IN THE NEUQUEN ANDES
12:12	0:12	12:24			87	Kwesi Quagraine	In Person	Similarities in Large Scale Meteorological Patterns Associated with Atmospheric River Detection Tools during landfall along the West CONUS
12:24	0:16	12:40		**Discussion**				
12:40	1:20	14:00	Lunch					
14:00	1:40	15:40	Zou//Shields Garreaud//Irina	**Breakout rooms for discussion** **Predictions // AR Labeling Campaign** **Projections // Cryosphere**				
15:40	0:40	16:20	Coffee Break					
16:20	0:12	16:32	A. Wilson C. Shields	**Phys., dyn., microphysic & aerosol aspects of ARs**	84	Rene Garreaud	in person	Atmospheric Rivers in South-central Chile: Landfalling angle is (almost) everything
16:32	0:12	16:44			82	Serena Scholz	in person	Global impacts of atmospheric rivers on surface temperatures and heat fluxes
16:44	0:12	16:56			92	Stephen Dery	virtual	Moisture Fluxes during Three Atmospheric Rivers in September and October 2021 in British Columbia's Upper Nechako Watershed
16:56	0:12	17:08			88	Tien-Yiao Hsu	in person	The Modification of Air-sea Fluxes within Atmospheric Rivers by Mesoscale Sea Surface Temperature Structures
17:08	0:12	17:20			94	Yurong Song	virtual	Relationship between Tropical Diabatic Heating and Atmospheric Rivers under the Indian Summer Monsoon System
17:20	0:12	17:32			95	Xun (Jerry) Zou	in person	Investigation of an Atmospheric River and Explosive Cyclogenesis over the US Central Plains in March 2019
17:32	0:12	17:44			97	Travis A. O'Brien	in person	Atmospheric Rivers in the Eastern and Midwestern United States Associated with Baroclinic Waves
17:44	0:16	18:00		**Discussion**				

Wednesday

PST **hh:mm**

Tin	dT	Tfin	Moderartors	Session	Abstract ID	Speaker	Format	Title
8:30	0:30	9:00	T. Corringham M. Warner	**Environmental and socioeconomic impacts ARs**	148	*Mike Anderson (KN)*	In person	A Vision for Climate Resilient Water Management in California
9:00	0:12	9:12			133	Tom Corringham	In person	The impacts of atmospheric rivers on road safety and mobility in California
9:12	0:12	9:24			125	Nithin Krishna Bala Murali	virtual	Characterising river flow response to atmospheric moisture transport in New Zealand
9:24	0:12	9:36			78	Tiago Ferreira	virtual	The role of Atmospheric Rivers in the Record-breaking Precipitation Event of December 2022 in Portugal
9:36	0:12	9:48			129	Deniz Bozkurt	virtual	When Nature Collides: The 2023 Türkiye-Syria earthquake disaster exacerbated by an atmospheric river
9:48	0:12	10:00			128	Tobias Braun	In person	Earth Surface Impacts of Hydrological Extremes along Global Atmospheric River Networks: The ARNETLAB project
10:00	0:12	10:12			131	Christopher Callahan	In person	Unprecedented atmospheric rivers as a stress test for empirical climate impact models
10:12	0:18	10:30		**Discussion**				
10:30	0:30	11:00	Coffee Break					
11:00	0:12	11:12	T. Corringham M. Warner	**Environmental and socioeconomic impacts ARs**	123	Daniela Fernanda Cuauhtémoc	virtual	Impacts associated with atmospheric rivers in the Baja California Peninsula, Mexico
11:12	0:12	11:24			130	Mariana Webb	In person	Quantifying the Hydrologic Impacts of Atmospheric Rivers in Chile
11:24	0:12	11:36			137	Maximiliano Viale	virtual	Two Giant Atmospheric Rivers in the same season over the subtropical Andes. Hydrological impacts over the lee Argentinean side
11:36	0:12	11:48			77	Yosvany Garcia	In person	Coherence of atmospheric and ocean conditions along the coast of central Chile during Atmospheric Rivers
11:48	0:12	12:00			139	Zhenhai Zhang	In person	The Role of Atmospheric Rivers in the Snowpack over the Upper Colorado River Basin during Water Year 2023
12:00	0:12	12:12			126	Samuel Bartlett	In person	An Ingredients-Based Analysis of Storm Types Associated with High-Impact Mesoscale Precipitation Events in the U.S.
12:12	0:12	12:24			135	Chris Davis	In person	Improving Atmospheric River Predictions with User-Driven Research
12:24	0:16	12:40		**Discussion**				
12:40	1:20	14:00	Lunch					
14:00	0:12	14:12	A. Wilson A. Ramos	**ARs as a component of compound events**	5	Harun Aslan	virtual	The Impacts of Atmospheric Rivers on Snowmelt Induced Landslides in the Northern Anatolian Mountains (Türkiye)
14:12	0:12	14:24			16	Surabhi Biyani	in person	Regional Patterns and Impacts of Temporally Clustering Atmospheric River Events in Southern South America
14:24	0:12	14:36			7	Lance Bosart	in person	Severe Flooding in Pakistan in August 2022 Associated with an Unusually Amplified Large-Scale Flow Pattern that Facilitated Robust Midlatitude-Tropical Interactions
14:36	0:12	14:48			15	Angelica Rodriguez	in person	California Coastal Response to 2022-2023 Winter Storms
14:48	0:12	15:00			4	Yang Zhou	in person	Temporal Clustering of the U.S. West Coast Atmospheric Rivers: Characteristics and Large-scale Patterns
15:00	0:12	15:12			14	Ivory Small	in person	Convective Triggers Interacting with Quasi-Stationary Convergence Zones Producing Extreme Rainfall Rates and Impacts in Southern California During Atmospheric River Events
15:12	0:12	15:24			9	Jay Cordeira	in person	Characteristics, Impacts, and Historical Perspectives of Atmospheric Rivers along the U.S. East Coast during Winter 2023–2024.
15:24	0:16	15:40		**Discussion**				
15:40	0:40	16:20	Coffee Break					
16:20	0:03	16:23	C. Shields A. Wilson	Compound events	10	HUANG Wen	Lightning Presentation - Virtual	Atmospheric rivers contribute to Eastern China's humid heat event
16:23	0:03	16:26		Forecasting of ARs	36	Akinnubi Rufus Temidayo		Seasonal Variation of River Discharge and Precipitation in the Nigeria River Basin Authority.
16:26	0:03	16:29			44	Gabriel Lewis		Novel Approaches to Improving Operational Flood And Water Supply Forecasting Across the Sierra Nevada
16:29	0:03	16:32		Observing, identification, and monitoring of ARs	53	Jon Rutz		The Advanced Quantitative Precipitation Information (AQPI) Project: Building a State-of-the-Art Observation and Forecast System for the Greater San Francisco Bay Area
16:32	0:03	16:35			59	Tomas Gaspar		The June 2023 Madeira event: synoptic analysis and extreme rainfall assessment
16:35	0:03	16:38			63	Abhishek Kumar		On the relationship between atmospheric rivers and precipitation over the Southern Ocean as observed at Macquarie Island
16:38	0:03	16:41			65	Sohta Tadaki		Detection and Characteristics analysis of the Atmospheric Rivers that causes Heavy Rainfall in the Japan region
16:41	0:03	16:44			69	Ty Brandt		How does dynamical forcing during impactful atmospheric rivers affect snowfall rates and spatial patterns in Western US mountains?
16:44	0:03	16:47			12	Venugopal Reddy Thallam		Detection Uncertainty Matters in Quantifying Meteorological Extremes of Euro-Atlantic Atmospheric Rivers
16:47	0:03	16:50			72	Minghua Zheng - **Jia Wang**		An Overview of Flight Planning for Atmospheric River Reconnaissance
16:50	0:03	16:53		Impacts ARs	124	Deniz Bozkurt (pre recorded)		Influences of Atmospheric Rivers on Seasonal Precipitation and Snowmelt Patterns in Upper Mesopotamia
16:53	0:03	16:56			138	Maximiliano Viale		Assessing Atmospheric Rivers Damages and Impacts in South America
16:56	0:03	16:59		**Discussion**				
16:59	1:01	18:00		**Poster session II - Compound + Forecasting+Observations+Impacts (see abstract in separate sheet)**				

Wednesday - Poster Session

Poster Session Wednesday 5-6 PM

Session	Abstract ID	Author	Title
ARs as a component of compound events	**11**	Kamran Chowdhury	Atmospheric Rivers and their Correlation with Severe Convective Storm Events
	6	Tyler C. Leicht	Characterizing ARs associated with persistent flow regimes
Forecasting of ARs	**30**	Daniel Kingston	Forecasting extreme precipitation from atmospheric rivers in New Zealand
	32	Tim Higgins	Subseasonal Potential Predictability of Horizontal Water Vapor Transport and Precipitation Extremes in the North Pacific
	33	Alan D. Fox	Comparing IVTinit-estimated Day0 Total One-Day IVT with Daily GFS Day0 TIVT24 out to 30 Days
	34	Vesta Afzali Gorooh	Development of Machine Learning Methods for Freezing Level Forecasts over FIRO Watersheds
	35	Deanna Nash	Differentiating between impactful and non-impactful Atmospheric River events in Southeast Alaska
	37	Laís Fernandes	Does El Niño affect MJO-AR connections over the North Pacific and associated North American precipitation?
	40	Leif Swenson	Atmospheric River Forecast Errors and their Associated Precipitation Forecast Errors
	41	Isaac Davis	Do AI models produce better atmospheric river forecasts than physics-based models? A quantitative evaluation
	42	Rosa Luna-Niño	Atmospheric rivers as disruptors of seasonal precipitation prediction in the Western US
	43	Jorge Baño Medina	Application of data-driven neural weather models for characterizing the evolution of atmospheric rivers in the Western U.S
	49	Benjamin Moore	Dynamics and subseasonal predictability of high-impact precipitation episodes over California during winter 2022–2023
	54	Shawn Roj	Using Google Earth as a Flight Planning Coordination Tool for Developing Atmospheric River Reconnaissance Intensive Observation Period Mission Flight Tracks
	60	Laurel DeHaan	West Pacific Atmospheric Rivers: their Climatology and Impacts
	64	Sara M. Vallejo-Bernal	The PIKART Catalog: A Global and Comprehensive Compilation of Atmospheric Rivers
Environmental and socioeconomic impacts ARs	**122**	Kalpana Chaudhari	The hazards and Socio Cultural Impacts of Atmospheric Rivers in Himalayan Region : Role of Information and Communication Technology and Digital Tools for Post Rehabilitation.
	128	Tobias Braun	Earth Surface Impacts of Hydrological Extremes along Global Atmospheric River Networks: The ARNETLAB project
	134	Jeri Wilcox	Responses of Harmful Algal Bloom Causing Phytoplankton Taxa to Atmospheric Rivers Along the California Coast
	136	Ian Campbell	Influence of Atmospheric Rivers on Southern California Wildfire

Thursday

PST **hh:mm**

Tin	dT	Tfin	Moderatros	Session	Abstract ID	Speaker	Format	Title
8:30	0:30	9:00	C. Shields D. Lavers	**Observing, identification, and monitoring of ARs**	73	*Anna Wilson (KN)*	In Person	Atmospheric River Reconnaissance – Accomplishments in Water Year 2024
9:00	0:12	9:12			74	Alexandre M. Ramos	In Person	The North Atlantic Waveguide, Dry Intrusion, and Downstream Impact Campaign (NAWDIC)
9:12	0:12	9:24			61	Alejandro Soto	In Person	Advancements in Atmospheric River Science from the WindMapper Mission Concept
9:24	0:12	9:36			68	Forest Cannon	In Person	Collaborative Opportunities to Leverage Tomorrow.io's Satellite Precipitation Radars for Atmospheric River Science
9:36	0:12	9:48			71	Juan Crespo	In Person	Observing Air-Sea Interaction Impacts from Space on Atmospheric River and AR Family Development
9:48	0:12	10:00			70	Donata Giglio	In Person	Atmospheric river impacts on the upper ocean: a study using Argo floats
10:00	0:12	10:12			145	Todd Hutchinson	In Person	Long-Duration Weather Balloons and Their Impacts on Forecasts of Atmospheric Rivers
10:12	0:18	10:30		**Discussion**				
10:30	0:30	11:00	Coffee Break					
11:00	1:40	12:40	Wilson//Tom Shields//Tom Ralph et al	**Breakout rooms for discussion** **Physical // Compound Events** **Observations// Impacts** **GPEX Panel**				
12:40	1:20	14:00	Lunch					
14:00	0:12	14:12	C. Shields A. Wilson	**Observing, identification, and monitoring of ARs**	66	Aneesh Subramanian	In Person	Impact of ARRecon Surface Pressure Observations over the Northeast Pacific Ocean on the Data Assimilated Analysis and Forecast of Atmospheric Rivers
14:12	0:12	14:24			140	Bo Dong	In Person	A new benchmarking metrics framework for evaluating atmospheric rivers in reanalyses and climate models
14:24	0:12	14:36			67	Ranjan Kumar	Virtual	Detection of Atmospheric Rivers Associated With Extreme Precipitation over the Indian Subcontinent
14:36	0:12	14:48			56	Deanna Nash	In Person	Inland-penetrating Atmospheric Rivers and Hydrometeorological Impacts in Colorado
14:48	0:12	15:00			62	Yazmina Rojas Beltran	In Person	Influence of the Sierra Barrier Jet and Atmospheric rivers on the distribution of precipitation in Northern California
15:00	0:12	15:12			55	Emily Slinskey	Virtual	Application of the Atmospheric River Scale in conjunction with a Global AR Tracking Algorithm over the Western United States
15:12	0:18	15:30		**Discussion**				
15:30	0:40	16:10	Coffee Break					
16:10	1:30	17:40		**Panel on Future Directions**				
17:40	0:20	18:00	**Closing remarks**					