



HIGH PLAINS CHAPTER OF THE AMS/NWA
ANNUAL CONFERENCE 2024
NORTH PLATTE, NE

Thursday Morning, February 29, 2024

Session 1 - AM	Session Chair	Caleb Brown – WFO LBF
8:00-8:15	Welcome/Logistics	Wesely/Taylor
8:15-9:15	Featured Presentation - The Warn-on-Forecast System: Confident decisions made earlier	Patrick Burke – NSSL; WoFS Program Lead
9:15-9:35	Leveraging WoFS and Mesoanalysis to Elevate Severe Operations	Dirk Petersen – WFO OAX
9:35-9:55	The July 26th, 2022 Tornadoes: A Case Study on Storm Evolution and WFO Messaging Strategy	Kalitta Kauffman – WFO GLD
9:55-10:15	Break	
10:15-10:35	Predicting Tornado Pathlength and Longevity from an Environmental Wind Profile: Theory and Test Cases Using ERA5 Near-Storm Synthetic Proximity Soundings	Jonathan Garner – Former NWS
10:35-10:55	An Overview of Significant Wind-Driven Hail Events in the Great Plains	Zachary Hiris – WFO BOU
10:55-11:15	The 2023 June 21-22 Severe Weather Outbreak in Eastern Colorado	Paul Schlatter – WFO BOU
11:15-11:35	An Overview of the NWS National Water Prediction Service (NWPS) Transition	Melissa Smith – WFO UNR
11:35-11:55	Insights and Experiences from The NOAA Hazardous Weather Testbed	Jordan Thies – WFO GID
11:55-1:00	Lunch (on your own)	

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Thursday Afternoon, February 29, 2024

Session 2 - PM	Session Chair	John Stoppkotte – WFO LBF
1:00-2:00	Featured Presentation - Potential Uses of Dual-Pol Radar Data for Downbursts and QLCS Mesovortices	Charles Kuster - NSSL
2:00-2:20	The Era of Machine Learning in Convective Warning Decision Making is Here	Aaron Johnson – WFO DDC
2:20-2:40	A Sample of ZDR Columns from Storms with Giant (4”+) Hail Reports using GR2ver3	Matt Bunkers – WFO UNR
2:40-2:55	Break	
2:55-4:55	Student Paper and Presentation Competition	
2:55-3:15	Comparison of Weather Stations at Different Price Points	Melanie Augenstein – Metro State, Denver, CO
3:15-3:35	High Plains Cold Pools Obey a Theoretical Propagation Speed Equation	Nicholas Falk – Colorado State U.
3:35-3:55	Extending the Lead-time of Downslope Windstorm Forecasts Using Machine Learning and Assessing Their Predictability	Casey Zoellick – Colorado Sate U.
3:55-4:15	An Apparent Eastward Shift in United States Tornadoic Activity	James Mizejeski - U. of Northern Colorado
4:15-4:35	Cold Pool Trains in the Colorado Plains	Christine Neumaier – Colorado State U.
4:35-4:55	Utilizing Road Weather Information to Automate Traction Law Implementation Along Colorado’s I-70 Ski Corridor	Brenden Eckerman – Metro State, Denver, CO

End Day 1

Thursday Evening, February 29, 2024

Evening Banquet

5:30-6:30	Social Time – Cash Bar	Best Western North Platte
6:30-7:15	Banquet Meal	Best Western North Platte
7:15-8:00	Featured Presentation – Climate Fingerprints on Severe Weather	Barb Mayes Boustead



Friday Morning, March 1, 2024

Session 3 - AM	Session Chair	Kalitta Kauffman – WFO GLD
8:00-8:10	Welcome/Logistics	Wesely/Taylor
8:10-8:45	How Hazard Services will affect convective warnings at the WFO in the future	Taylor Trogdon – GSL/CIRA
8:45-9:15	Dynamic Ensemble-based Scenarios for IDSS (DESI): A new decision support tool for fast and meaningful interrogation of ensemble-based numerical weather data	Daniel Nietfeld – WIDS Division Chief; GSL
9:15-9:35	The NOAA Fire Weather Testbed and Related Activities at GSL	Daniel Nietfeld – WIDS Division Chief; GSL
9:35-9:45	Student Paper Awards	
9:45-9:55	Break	
9:55-10:15	Analysis of the 2022 Western Nebraska Fire Season	Darren Snively – WFO LBF
10:15-10:35	Predicting Dust Storms on the High Plains: A Look at December 2, 2021	Amanda Wekesser – WFO GID
10:35-10:55	Variability and Trends in Rocky Mountain Snowpack	Michael Natoli – WFO CYS
10:55-11:30	2019 Flood: Preparing, Predicting, and Responding to a Multi-Billion-Dollar Disaster	Wesely/Nicolaisen – WFOs GID/OAX
11:30-11:55	KDP Detection for Microbursts: Case Studies From WFO Goodland’s CWA	Tyler Trigg – WFO GLD
11:55-12:15	Replacing Missing Temperature Data and Its Effects on Monthly Rankings	Taylor Nicolaisen – WFO OAX
12:15-12:35	Using Satellite Imagery to Track Blowing X on the High Plains	Bill Line - NESDIS

End of Conference