

2021 Student Research Symposium - Poster Session
REU Site in Earth System Science

Thursday, August 5, 2021

ATS West Seminar Room (Rm. 121)
 Department of Atmospheric Science
 Colorado State University

Morning Session: 10:00 -11:30 AM (MDT)

| Authors (2021 Interns in Bold) | Poster Title |
|---|---|
| Gillian Felton , Matt Rogers, and Andrea Schumacher | Analysis of risk communications during the Cameron Peak Fire |
| Sam Lesmerises and Amanda Back | Using PM2.5 observations to verify HRRR-smoke forecasts during the 2020 western US fire season |
| Emily Luschen , Jack Dostalek, and Lewis Grasso | Updates to the GOES-16 split-window precipitable water satellite product |
| Trey Maddaleno , Yuwei Zhao , Ilana Pollack, Amy Sullivan, Julieta Juncosa Calahorrano, and Emily Fischer | Quantifying enhancements in ammonia and methane from concentrated animal feeding operations in northeastern Colorado using ground-based mobile sampling |
| Hannah Myint , Zachary Labe, and Elizabeth Barnes | Predicting September Arctic sea-ice extent using a hierarchy of statistical models |
| Anushka Narayanan , Zane Martin, Kirsten Mayer, and Elizabeth Barnes | Predicting the Madden-Julian Oscillation using abstention-based neural networks |
| Ashley Sebok , Amanda Back, David Dowell, and Eric Bruning | Formulation of a nonlinear GLM flash extent density forward operator for ensemble assimilation and verification in the high resolution rapid refresh |
| Abby Thornton , Russ Schumacher, and Becky Bolinger | Understanding Weekly Precipitation Forecast Errors in Western Colorado |

Afternoon Session 1:30 - 3:00 PM (MDT)

| Authors (2021 Interns in Bold) | Poster Title |
|---|---|
| Amanda Bowden , Eric Maloney, Justin Whitaker, Michael Natoli, and Justin Hudson | The effect of projected Sea Surface Temperature (SST) pattern changes on tropical precipitation using CESM 1 |
| Blake Checkoway and Jenny Hand | Local and long-range impacts of wildfire smoke on air quality in Fort Collins, CO |
| Kyle Brooks , Micahel Bell, Jen DeHart, and Chelsea Nam | Variability in thermodynamic profiles of extreme precipitation events in northern Taiwan |
| Victoria Chavez , Kristen Rasmussen, Marqi Rocque, Jim Hurrell, Lantao Sun | Influence of the Andes Mountains on the thermodynamics of mesoscale convective systems in subtropical South America |
| Alvin Cheung , Chris Slocum, and John Knaff | Detecting tropical cyclone secondary eyewalls with microwave-based scheme |
| William Faletti , Samuel O'Donnell, Benjamin Swanson, Jeffery Pierce, Paul Demott, and Sonia Kreidenweis | Estimation and meteorological analysis of CCN during RELAMPAGO-CACTI in Córdoba, Argentina |
| Jay Pillai , Michael Needham, Mark Branson, and David Randall | A simple model of tropical and subtropical interactions |
| Brittney Smith , Nicholas Falk, and Sue van den Heever | Cold pools in tropical cyclones and isolated tropical convection |
| Leah Swinney , Kristen Rasmussen, Rung Panasawatwong, and Marqi Rocque | The influence of topography on extreme rainfall events in Taiwan |

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