

2025 AMS Annual Meeting ~ New Orleans, LA
NSF SOARS® Protégés, Alumni, and Staff Schedule
12 - 16 January 2025

* 2025 AMS Annual Meeting [Events Listing](#) *

Sunday, 12 January

When: 12:00 – 12:20 PM CST

Who: NSF SOARS Alum, Shirley Murillo

Title: [Hurricane Winds of Change: Navigating a Career through Science and Leadership](#)

Session: Keynote Presentation

Location: Great Hall A

When: 06:30 – 08:30 PM CST

Who: NSF SOARS Alum, Sophia Alegrias (Poster)

Title: [Investigating Sub-visible Lightning Discharges with the Long Wavelength Array](#)

Session: Lightning

Location: Hall C

When: 06:30 – 08:30 PM CST

Who: NSF SOARS Protege, Tyanna Fox (Poster)

Title: [Evaluating the Efficacy of Airborne Radio Occultation Observations on Improving West Coast Precipitation Forecasts](#)

Session: Data Assimilation and Numerical Weather Prediction

Location: Hall C

When: 06:30 – 08:30 PM CST

Who: NSF SOARS Protege, Chandler Jenkins (Poster)

Title: [Has Improving Hurricane Track Forecasts Improved Hurricane Intensity Forecasting?](#)

[Session: Tropical Meteorology](#)

Location: Hall C

When: 06:30 – 08:30 PM CST

Who: NSF SOARS Protege, Tyler Moore (Poster)

Title: [Thawing Traditions](#)

Session: Polar Meteorology

Location: Hall C

When: 06:30 – 08:30 PM CST

Who: NSF SOARS Protege, Antonio Ruiz Núñez (Poster)

Title: [Analyzing Magnetospheric Conditions During a Sudden Stratospheric Warming Event in January 2013](#)

Session: Space Weather

Location: Hall C

When: 06:30 – 08:30 PM CST

Who: NSF SOARS Protege, Marinna Stopa (Poster)

Title: [The Houston Derecho: A MPAS Versus HRRR Case Study as Part of The NOAA Hazardous Weather Testbed Annual Spring Forecast Experiment](#)

Session: Data Assimilation and Numerical Weather Prediction

Location: Hall C

When: 06:30 – 08:30 PM CST

Who: NSF SOARS Protege, Anastasia Tomanek (Poster)

Title: [Assessment of Time-Lagged, Medium-Range, High-Resolution Ensemble Forecasts of Extreme Precipitation: May 2023](#)

Session: Extreme Weather Events

Location: Hall C

Monday, 13 January

When: 08:30 – 08:45 AM CST

Who: NSF SOARS Alum, Vanessa Dunham (Oral)

Title: [Addressed or Unanswered?: Evaluating Public Information Seeking on Social Media throughout Severe Weather Events](#)

Session: Approaches to Understanding and Improving Public Response to Severe Weather and Tornadoes

Location: 345

When: 09:15 – 09:30 AM CST

Who: NSF SOARS Alum, Angelie Nieves Jiménez (Oral)

Title: [Extreme Rainfall-Enhancing Mechanisms in the Tail Rainband of Hurricane Fiona \(2022\)](#)

Session: [Tropical Cyclones: Dynamics, Intensity and Structure](#)

Location: 221

When: 11:45 – 12:00 PM CST

Who: NSF SOARS Alum, Sophia Alegrias (Oral)

Title: [Investigating Sub-visible Lightning with the Long Wavelength Array](#)

Session: Advances in Lightning Detection Technologies, Data Processing, and Analysis Techniques

Location: 219

When: 02:30 – 02:45 PM CST

Who: NSF SOARS Program Lead, Marissa Vara (Co-author, Oral)

Title: [Creating an Ecosystem for Success: Elevating Hispanic/Latinx/e Voices in the Geosciences](#)

Session: Janet Liou Mark Memorial Session: Increasing Minority Student Participation in the Earth and Geosciences

Location: 350/351

When: 03:00 – 04:30 PM CST
Who: NSF SOARS Protege, Shanna Chamhitt (Poster)
Title: [Probing The Atmosphere Using Remote Sensing Instruments for Deep Convection \(Polarimetric Radio Occultation \(PRO\)\)](#)
Session: Remote Sensing of the Atmosphere
Location: Hall C

When: 03:00 – 04:30 PM CST
Who: NSF SOARS PI, Becca Hatheway (Poster)
Title: [Co-creation of a Museum Exhibit about Climate Change with a Diverse Team of Students, Scientists, Educators, and Museum Professionals](#)
Session: Education
Location: Hall C

When: 03:00 – 04:30 PM CST
Who: NSF SOARS Protege, Marinna Stopa (Poster)
Title: [The Houston Derecho: A HRRR Versus MPAS Case Study as Part of The NOAA Hazardous Weather Testbed Annual Spring Forecast Experiment](#)
Session: Forecast Verification Methods and Performance
Location: Hall C

When: 05:15 – 05:30 PM CST
Who: NSF SOARS Protege, Chandler Jenkins (Oral)
Title: [Have Improvements in Hurricane Intensity Forecasts Been Driven by Better Track Predictions or Achieved on Their Own?](#)
Session: Tropical Cyclones: Data Assimilation and Forecasting
Location: 221

Tuesday, 14 January

When: 09:00 – 09:15 AM CST
Who: NSF SOARS Alum, Allysa Dallmann (Oral)
Title: [The UT City Climate CoLab](#)
Session: From Data to Decisions: Producing Actionable and Accessible Earth Information Systems I
Location: 345

When: 03:00 – 04:30 PM CST
Who: NSF SOARS Alum, Juan Colón Pérez (Poster)
Title: [Aperture Radar Data Analysis on Tropical Cyclone Wind Structure](#)
Session: Tropical Cyclones: Posters II
Location: Hall C

When: 04:30 – 04:45 PM CST

Who: NSF SOARS Alum, Matt Coleman (Oral)

Title: [Panel Discussion on Climate Linked Economics: Economic Weather Risk Transfer: What Is It, and How Does It Enhance Institutional Resilience?](#)

Session: Panel Discussion 8 Modeling Weather and Climate for Applications in Insurance and Reinsurance III

Location: 205

Wednesday, 15 January

When: 08:30 – 08:45 AM CST

Who: NSF SOARS Protege, Janelle McManaman (Oral)

Title: [Characterizing the Response of Ecosystem Photosynthesis to Clouds and Smoke](#)

Session: Findings from Latest Field Projects II

Location: 355

When: 08:30 – 08:45 AM CST

Who: NSF SOARS Alum, Katurah Zahler (Oral)

Title: [Preparing for GeoXO: Capabilities of Shortwave Infrared Water Vapor Bands with Low-Level Moisture Boundary Detection and Total Precipitable Water Retrievals](#)

Session: Applications of the NExt Generation GEO Satellites I

Location: 356

When: 08:45 – 09:00 AM CST

Who: NSF SOARS Program Lead, Marissa Vara (Co-author, Oral)

Title: [Cultivating Collaborative Partnerships: Bridging Emerging Research Institutions and Scientific Research Entities](#)

Session: Creating and Nurturing an Inclusive and Equitable Weather, Water, Climate Enterprise Part I

Location: 208

When: 11:30 – 11:45 AM CST

Who: NSF SOARS Alum, Allysa Dallmann (Oral)

Title: [City Climate Data Decision Calendars](#)

Session: Data Overflow - Other Topics in Applied Climatology: Part II

Location: 333/334

When: 02:30 – 02:45 PM CST

Who: NSF SOARS Alum, Logan Dawson (Oral)

Title: [Recent Performance and Ongoing Challenges Associated with Forecasting Extreme Maritime Wind Hazards at the Ocean Prediction Center](#)

Session: Extreme Maritime Weather - Met-Ocean Science, Observations, and Services to Enhance Understanding, Safety, and Efficiency, Part II

Location: 352

When: 03:00 – 04:30 PM CST

Who: NSF SOARS Alum, Keenan Eure (Poster)

Title: [Satellite Radiance Data Impacts within a Prototype RRFS](#)

Session: 29th Conference on Integrated Observing and Assimilation Systems for the Atmosphere, Oceans, and Land Surface (IOAS-AOLS)

Location: Hall C

When: 03:00 – 04:30 PM CST

Who: NSF SOARS Protege, Rebecca Porter (Poster)

Title: [Investigating Different RegCM5 Planetary Boundary Layer Parameterizations to Simulate an Atmospheric River Case Study](#)

Session: Atmospheric Rivers: Processes, Impacts, and Communicating Uncertainty*

Location: Hall C

Thursday, 16 January

When: 09:15 – 09:30 AM CST

Who: NSF SOARS Alum, Ayman Elyoussoufi (Oral)

Title: [Relationship between Fatal Weather-Related Crashes and the El Niño-Southern Oscillation Teleconnections](#)

Session: Weather and the Roads

Location: 344

When: 11:15 – 11:30 AM CST

Who: NSF SOARS Alum, Kate Musgrave (Oral)

Title: [Evaluation of Tropical Cyclone Forecasts from Artificial Intelligence Weather Prediction \(AIWP\) Models](#)

Session: NOAA Hurricane Forecast Improvement Program (HFIP): Advancing Hurricane Modeling, Analysis, Forecasting, and Risk Communication for a Diverse World: Part II

Location: 343

When: 02:00 – 02:15 PM CST

Who: NSF SOARS Alum, Delían Colón-Burgos (Oral)

Title: [Dynamics of Convective Organization in African Easterly Waves observed during the NAMMA and CPEX-CV field experiments](#)

Session: Tropical cyclones and tropical convection

Location: 203/204

When: 02:00 – 02:15 PM CST

Who: NSF SOARS Alum, Erin Dougherty (Oral)

Title: [Changes to Snow, Rain, and Dry Days in a Headwaters Basin to the Colorado River in a Future, Warmer Climate](#)

Session: A Convergent Community Approach to Modeling, Observations, and Prediction of the Water Energy and Carbon Cycles Across Climate Timescales over the United States

Location: 221

When: 02:30 – 02:45 PM CST

Who: NSF SOARS Alum, Jonathan Martinez (Oral)

Title: [Evaluating methods for generating ensemble members in the National Hurricane Center Wind Speed Probability \(WSP\) model](#)

Session: NOAA Hurricane Forecast Improvement Program (HFIP): Advancing Hurricane Modeling, Analysis, Forecasting, and Risk Communication for a Diverse World: Part III

Location: 343

When: 02:30 – 02:45 PM CST

Who: NSF SOARS Protege, Eleanor Salm (Oral)

Title: [Understanding Medium-Range Convective Scale Precipitation Errors from the Model for Prediction Across Scales-Atmosphere](#)

Session: Verification of Ensemble Systems

Location: 207

When: 02:45 – 03:00 PM CST

Who: NSF SOARS Protege, Anastasia Tomanek (Oral)

Title: [Assessment of Time-Lagged, Medium-Range, High-Resolution Ensemble Forecasts of Extreme Precipitation Events](#)

Session: Verifications of Ensemble Systems

Location: 207

When: 03:00 – 04:30 PM CST

Who: NSF SOARS Protege, Deztynee Bryan (Poster)

Title: [Structural Analysis of Tropical Cyclones by the APAR Observing Simulator: A Comparison Study as part of 41st Conference on Environmental Information Processing Technologies](#)

Session: EIPT Posters IV: Radar Technologies and Applications

Location: Hall C