

2026 North Florida AMS/EOAS Research Symposium Agenda

Friday, April 17th 2:30-5:30pm (EOAS 1044)

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| 2:30-2:40pm | Welcoming Remarks (Lili Boss) |
| 2:40-3:30pm | Session 1: Observational Analysis of Radiative and Surface Enthalpy Flux Feedbacks in North Atlantic Tropical Cyclones (Michael Kopelman) Development of a 2-D Model to Study Fire Plume Dynamics (Branson Starr) The Quantification and Physical Interpretation of the Implied Secondary Circulation during Rapid Intensification of Hurricane Melissa (2025) using HAFS-A/B and Flight Observations (Jacob Hair) Stratospheric Aerosol Injection Effects on Global Climate Distribution (Jay Brunelli) |
| 3:30-3:40pm | Intermission |
| 3:40-4:30pm | Session 2: Tropical Cyclone Genesis Processes in Moderate Vertical Wind Shear depending on Vertical Vortex Profiles (Connor Stoll) Radar Observations of the Spatial Structure of Precipitation in the Tropical Atlantic During PICCOLO (Sarah Kennison) Efficiency of Tropical Cyclogenesis in Large-Scale Circulations: Climatology of Monsoon Gyres and Tropical Cyclogenesis in the Western North Pacific (Abraham Tekoe) Breaking Down the Effects of Current Feedback Coupling onto the Atmospheric Boundary Layer (Kamran Chowdhury) |
| 4:30-4:40pm | Intermission |
| 4:40-5:25pm | Poster Session #1: Estimating Near-Surface Turbulence Characteristics in Landfalling Tropical Cyclones from Field Measurements (Arezo Bakhshizadeh) #2: A Comparative Analysis of the Consecutive Rapid Intensification of North Atlantic Hurricanes (2024) (Diego Xiao Barbero) #3: Analysis of Extreme Minimum Temperatures in the Southeast Region (Hailey Long) #4: Evaluating GLM-Derived Lightning Activity in Hurricane Milton (2024) as a Tool for Forecasting Rapid Intensification (Melody Geiger) #5: Development of a Digital Twin Model to Improve Disaster Debris Collection Operation (Avarie Bergen) #6: Multi-International & Observational Case Study Analysis of Tropical Storm Aere Impacts on Heavy Precipitation in Southern Japan in 2022 (Tan Dao) #7: Lost in Translation: An Analysis on How Florida's Broadcast Meteorologists Handle Bilingual Communication During Severe Weather (Daniella Streety) |

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| | <p>#8: Developing Process-Oriented Diagnostics for Convective Organization in Tropical Cyclone Seed Disturbances (Jacob Hamil)</p> <p>#9: Inter-basin Differences in Moist Static Energy Variance Budget Diagnostics for Developing and Non-developing Tropical Cyclone Seeds (Grace Muesing)</p> <p>#10: North American Landfalling Tropical System Frequency (Ethan Palmer)</p> <p>#11: Polar Bear Fasting Season Length as an Ecologically Relevant Metric for Evaluating High-Latitude/Low-Altitude SAI Deployment Outcomes (Priscila Villalta)</p> <p>#12: Latent Space Compression of Atmospheric Data Using Variational Autoencoders for Efficient AI/ML Forecasting (LJ Dunphy)</p> <p>#13: Convective Organization in Mock-Walker Simulations in RCEMIP Phase II (Graham O'Donnell)</p> |
| 5:25-5:30pm | Concluding Remarks (Lili Boss) |