

The Department of Atmospheric and Environmental Sciences

Faculty, Graduate Student and Post-Doc Sessions



Monday

Session 1B [African Weather and Climate I](#)

Location: Miramar 1 & 2 (The Condado Hilton Plaza)

- 9:00 AM [Saharan Dust and the Nonlinear Evolution of the African Easterly Jet–African Easterly Wave System](#)
Dustin Grogan, Univ. of California, Davis, CA; and T. Nathan and S. H. Chen
- 9:30 AM [Three-Dimensional Structure of African Easterly Waves based on Empirical Orthogonal Functions](#)
Yuan-Ming Cheng, University at Albany, State University of New York, Albany, NY; and C. D. Thorncroft

Session 2B [African Weather and Climate II](#)

Location: Miramar 1 & 2 (The Condado Hilton Plaza)

- 11:15 AM [On the Influence of Convectively Coupled Kelvin Waves on African Easterly waves](#)
Chris D. Thorncroft, SUNY, University at Albany, Albany, NY
- 11:45 AM [Assessing the Predictability of African Easterly Waves in ECMWF Ensemble Forecasts](#)
Travis J. Elless, University at Albany, SUNY, Albany, NY; and R. D. Torn

Session 2C [HS3 II](#)

Location: Ponce de Leon B (The Condado Hilton Plaza)

- 10:30 AM [Impact of Environmental Moisture for TC Genesis from AEWs](#)
Alan Brammer, SUNY, Albany, NY; and C. D. Thorncroft
- 10:45 AM [Dry Air, Midlevel Flow, and the Establishment of Persistent Deep Convection prior to Tropical Cyclogenesis](#)
Charles N. Helms, SUNY Albany, Albany, NY; and L. Bosart
- 12:00 PM [An Analysis of the Tropical Cyclone Cirrus Canopy Using HS3 and TCI Observations](#)
Patrick Duran, University at Albany, SUNY, Albany, NY; and J. Molinar

Session 2D [TC Genesis II](#)

Location: Ponce de Leon A (The Condado Hilton Plaza)

- 10:30 AM [The Influence of an Upper Tropospheric Potential Vorticity Anomaly on Rapid Tropical Cyclogenesis](#)
Michael S. Fischer, University at Albany, SUNY, Albany, NY; and B. Tang
- 10:45 AM [The Influence of a Precursor Central American Gyre and a Northerly Surge into the Gulf of Tehuantepec on the Formation of Hurricane Patricia in October 2015](#)
Lance F. Bosart, SUNY, Albany, NY; and P. P. Papin, A. S. Levine, and A. M. Bentle
- 5:45 PM [Sensitivity of Tropical Cyclone Spinup Time and Convection to the Initial Entropy Deficit](#)
Joshua J. Alland, University of Albany, Albany, NY; and B. Tang

Tuesday

Session 5D [Tropical Cyclone Intensity I: Observations of Tropical Cyclone Intensity](#)

Location: Ponce de Leon A (The Condado Hilton Plaza)

- 8:30 AM [Understanding the Relationship Between Lightning Outbreaks and Tropical Cyclone Intensity Change](#)
Stephanie N. Stevenson, University at Albany, SUNY, Albany, NY; and K. Corbosier

Session 7B [Tropical Extratropical Interactions I](#)

Location: Ponce de Leon B (The Condado Hilton Plaza)

- 2:30 PM [An Analysis of Tropical Moisture Transport During Agricultural Drought Transition Periods Over the United States Corn Belt Region](#)
Nicholas Joseph Schiraldi, SUNY, Albany, NY; and P. E. Roundy

Session 7C [Tropical Cyclone Intensity III: Dynamics of Tropical Cyclone Intensification](#)

Location: Ponce de Leon A (The Condado Hilton Plaza)

- 2:00 PM [What is the Role of Deep Convection in the Intensification of Tropical Cyclones?](#)
John E. Molinari, University at Albany/SUNY, Albany, N

Posters

- 21 [A Comparison of the Downstream Predictability Associated with Extratropical Transition and Baroclinic Cyclones](#)
Ryan D. Torn, University at Albany, SUNY, Albany, NY
- 33 [Subtropical PV Streamer Variability and Impact in the Subtropical North Atlantic Basin](#)
Philippe P. Papin, University at Albany, SUNY, Albany, NY; and L. F. Bosart
- 36 [The Interannual and Intraseasonal Variability of African Easterly Wave Activity](#)
Yuan-Ming Cheng, University at Albany, State University of New York, Albany, NY; and C. D. Thorncroft and G. N. Kiladis
- 64 [An evaluation of a real-time statistical-dynamical tropical cyclone genesis guidance tool based on global model output](#)
Daniel J. Halperin, University at Albany, Albany, NY; and R. E. Hart, H. E. Fuelberg, and J. Cossuth

Wednesday

Session 9D [Tropical Cyclone Intensity IV: Tropical Cyclone Intensity and Shear](#)

Location: Ponce de Leon C (The Condado Hilton Plaza)

- 8:45 AM [Climatological Analysis of Tropical Cyclone Intensity Changes under Moderate Vertical Wind Shear](#)
Rosimar Rios-Berrios, University at Albany/SUNY, Albany, NY

Session 9A [HFIP I](#)

Location: Ponce de Leon A (The Condado Hilton Plaza)

- 9:00 AM [Diagnosing Atmospheric Conditions Associated with Large Short-Term Intensity Forecast Errors in the Hurricane Weather Research and Forecasting \(HWRF\) Model](#)
Daniel J. Halperin, University at Albany, Albany, NY; and R. D. Torn

Session 10D [Tropical Cyclone Intensity V: External Influences on Tropical Cyclone Intensity](#)

Location: Ponce de Leon C (The Condado Hilton Plaza)

- 11:45 AM [REVISITING TROUGH INTERACTIONS AND TROPICAL CYCLONE INTENSITY CHANGE](#)
Casey M. Peirano, University at Albany, SUNY, Albany, NY; and K. L. Corbosiero

Session 11B [Large Scale Circulation](#)

Location: Miramar 1 & 2 (The Condado Hilton Plaza)

- 3:15 PM [Analysis of angular momentum loss in weather prediction models](#)
Ernesto W. Findlay, University At albany, Albany, NY

Session 12D [Tropical Extratropical Interactions II](#)

Location: Ponce de Leon C (The Condado Hilton Plaza)

- 4:30 PM [An Analysis of Multiple Steering Influences on the Track of Tropical Cyclone Joaquin \(2015\)](#)
Philippe P. Papin, University at Albany, SUNY, Albany, NY; and R. D. Torn

Session 12A [Tropical Cyclone Structure II: Precipitation Processes](#)

Location: Ponce de Leon A (The Condado Hilton Plaza)

- 4:30 PM [Further Evidence of the Tropical Cyclone Diurnal Cycle](#)
Jason Dunion, NOAA/AOML/HRD, Miami, FL; and C. Thorncroft, C. S. Velden, D. Nolan, B. W. Klotz, and B. A. Dahl

Thursday

Session 13A [HFIP III](#)

Location: Ponce de Leon C (The Condado Hilton Plaza)

- 8:00 AM [Evaluating the Predictability of TC Intensity Using the HWRF Ensemble Prediction System](#)
Ryan D. Torn, University at Albany, SUNY, Albany, NY

Session 13D [TC Genesis III](#)

Location: Ponce de Leon A (The Condado Hilton Plaza)

8:15 AM [A Coupled Moist Entropy and Angular Momentum Framework for Tropical Cyclogenesis Investigations](#)

Brian Tang, SUNY, Albany, NY

Session 14B [Tropical Cyclone Rainbands and Precipitation II](#)

Location: Miramar 1 & 2 (The Condado Hilton Plaza)

10:45 AM [Ensemble Variability in Rainfall Forecasts of Hurricane Irene \(2011\)](#)

Molly B. Smith, University at Albany, Albany, NY; and R. D. Torn, K. L. Corbosiero, and P. Pegion

Posters

154 [Relating Mid-Level Meridional Water Vapor Transport by Stationary Eddies to Seasonal Atlantic Tropical Cyclone Activity](#)

Travis J. Elless, University at Albany, SUNY, Albany, NY; and S. N. Stevenson, B. Tang, and R. D. Torn

166 [The Tropical Cyclone Genesis Index \(TCGI\)](#)

Jason Dunion, NOAA/AOML/HRD, Miami, FL; and J. Kaplan, A. B. Schumacher, J. Cossuth, K. D. Musgrave, and P. Leighton

Friday

Session 17A [Tropical Cyclone Structure IV: Secondary Eyewall Formation/Eyewall Replacement Cycles](#)

Location: Ponce de Leon A (The Condado Hilton Plaza)

8:30 AM [Diagnosis of Secondary Eyewall Formation Mechanisms in Hurricane Igor \(2010\)](#)

Kristen L. Corbosiero, University at Albany/SUNY, Albany, NY; and R. D. Torn

Session 17B [Intraseasonal Variability III](#)

Location: Miramar 1 & 2 (The Condado Hilton Plaza)

8:30 AM [Western Hemisphere Extratropical Circulation and the Indian Ocean MJO](#)

Paul E. Roundy, SUNY, Albany, NY

9:00 AM [Relative Feedbacks between the Madden–Julian Oscillation and Tropical Cyclones](#)

Lawrence C. Gloeckler, SUNY, Albany, NY; and P. E. Roundy

Session 18B [Intraseasonal Variability IV](#)

Location: Miramar 1 & 2 (The Condado Hilton Plaza)

11:15 AM [Extratropical Convective Precursors to Initiation of MJO Convection Over the Indian Ocean](#)

Jennifer A. Gahtan, University at Albany-SUNY, Albany, NY; and P. E. Roundy

Session 18A [Tropical Cyclone Structure V: 3-D Structure](#)

Location: Ponce de Leon A (The Condado Hilton Plaza)

11:30 AM [The Composited Tropical Cyclone Outflow Layer and the Balanced Vortex Response](#)

Sarah Dunn Ditchek, University at Albany, SUNY, Albany, NY; and J. E. Molinari

12:00 PM [Simulation of the Downshear Reformation of a Tropical Cyclone](#)

Leon Nguyen, University at Albany/SUNY, Albany, NY; and J. E. Molinari