

# Program

All sessions and discussions will be in the Brooks Lecture Hall

---

## Tuesday, June 9<sup>th</sup>

Afternoon: Check-in

6:00 PM - 7:00 PM: Reception - Gun Room

7:00 PM - 8:00 PM: Dinner - Dining Room

---

## Wednesday, June 10<sup>th</sup>

8:00 AM - 9:00 AM: Breakfast - Dining Room

9:00 AM - 10:30 AM: Session 1: Tropical Cyclones and Climate I. Session chair: Gabriel Vecchi

- Lance Bosart — Did the Recurvature, Extratropical Transition, and Subsequent Reintensification as an Extratropical Cyclone of Western North Pacific Supertyphoon Nuri Rearrange the Northern Hemisphere Flow Pattern Sufficiently to Trigger 2014-2015 Winter Onset over North America in November 2014?
- Benjamin Moore — Dynamics and predictability of the downstream impacts of the extratropical transition of western North Pacific Tropical Cyclone Lupit during late October 2009
- Kerry Emanuel — On the Cause of the Great North Atlantic Hurricane Drought of the Late 20th Century
- Suzana Camargo — Relationship of Tropical Cyclone Size with ENSO
- Allison Wing — Role of radiative-convective feedbacks in tropical cyclogenesis in rotating radiative-convective equilibrium simulations

10:30 AM - 11:00 AM: Break

11:00 AM - 12:00 PM: Discussion of Monsoons and MJO

12:00 PM - 1:30 PM: Lunch – Terrace

1:30 PM - 3:00 PM: Session 2: Convection. Session chair: Adam Sobel

- Usama Anber — Modeling the Diurnal Cycle in the Amazon using the Weak Temperature Gradient Approximation
- Giuseppe Torri — Understanding the life cycle of cold pools with a Lagrangian particle model

- Timothy Cronin — A theory for the growth rates and length scales of convective self-aggregation
- Martin Singh — Moist convection and the Hadley Cell
- Yang Tian — Probing into Responses of Moist Convection to Large-scale Temperature Perturbations Using A Lagrangian Particle Dispersion Model: Methods and Validation

3:00 PM - 3:30 PM: Break

3:30 PM - 4:45 PM: Session 3: Tropical Cyclone Genesis and Environment. Session chair: Kristen Corbosiero

- Brian Tang — Sensitivity of Tropical Cyclone Spin-up Time and Size to the Initial Entropy Deficit
- Joshua Alland — Sensitivity of Tropical Cyclone Convection to the Initial Entropy Deficit
- Leon Nguyen — Simulation of the Downshear Reformation of a Tropical Cyclone
- Philippe Papin — Tropical Cyclone Stan's Interaction Within a Central American Gyre

4:45 PM - 5:45 PM: Discussion of Convection and Tropical Cyclone Genesis and Environment

6:00 PM - 7:00 PM: Reception and Poster Session A - Gun Room

7:00 PM - 8:00 PM: Dinner - Dining Room

---

## Thursday, June 11<sup>th</sup>

8:00 AM - 9:00 AM: Breakfast - Dining Room

8:30 AM - 10:00 AM: Session 4: Tropical Climate. Session chair: Tom Knutson

- Adam Sobel — Is tropical weather less predictable than extratropical? Seamless precipitation prediction skill in two global models.
- Anthony Broccoli — The Response of Tropical Climate to Orbital, Ice Sheet, and Greenhouse Gas Forcing
- Benjamin Lintner — Response of the South Pacific Convergence Zone to imposed circulation and moisture perturbations in an intermediate level complexity model
- Jonathan Woodruff — Lessons Learned from Recent Flood Deposits in the Northeast
- Wei Zhang — The Pacific Meridional Mode and the Occurrence of Tropical Cyclones in the Western North Pacific

10:00 AM - 10:30 AM: Break

10:30 AM - 11:30 AM: Discussion of Tropical Climate

12:00 PM - 1:30 PM: Lunch – Terrace

1:30 PM - 3:00 PM: Session 5: Tropical Cyclones and Climate II. Session chair: Anthony Broccoli

- Thomas Knutson — Global projections of intense tropical cyclone activity for the late 21st century from dynamical downscaling of CMIP5/RCP4.5 scenarios
- Timothy Merlis — Surface temperature dependency of tropical cyclone-permitting simulations with uniform thermal forcing
- Gabriel Vecchi — On the Seasonal Forecasting of Regional Tropical Cyclone Activity and Simulation and Prediction of Category 4 and 5 Hurricanes in the High-Resolution GFDL HiFLOR Coupled Climate Model
- Hiroyuki Murakami — Investigating the Influence of Anthropogenic Forcing and Natural Variability on the 2014 Hawaiian Hurricane Season
- Benjamin Schenkel — A Climatology of Multiple Tropical Cyclone Events

3:00 PM - 3:30 PM: Break

3:30 PM - 4:45 PM: Session 6: Tropical Cyclone Intensification. Session chair: John Molinari

- Rosimar Rios-Berrios — Tropical Cyclone Intensification in Sheared Environments: Katia (2011) and Ophelia (2011)
- Stephanie Stevenson — The relationship between lightning activity and intensity changes in tropical cyclones
- Konstantinos Menelaou — On the relative contribution of inertia-gravity wave radiation to asymmetric instabilities in tropical cyclone-like vortices
- Georgina Paull — Sensitivity of Tropical Cyclone Intensification to Axisymmetric Heat Sources

4:45 PM - 5:45 PM: Discussion of Tropical Climate and Tropical Cyclone Intensification

6:00 PM - 7:00 PM: Reception and Poster Session B - Gun Room

7:00 PM - 8:00 PM: Dinner - Dining Room

---

## Friday, June 12<sup>th</sup>

7:30 AM - 8:30 AM: Breakfast - Dining Room

8:30 AM - 9:45 AM: Session 7: MJO and Monsoons. Session chair: Zhiming Kuang

- Paul Roundy — MJO Circulation Signals In the Western Hemisphere at Convective Onset over the Indian Ocean
- Naoko Sakaeda — The Intraseasonal Atmospheric Angular Momentum Associated with MJO Convective Initiation
- William Boos — Near-linear response of mean monsoon strength to a broad range of thermal forcings
- Ravi Shekhar — A Comparison of Thermodynamic Constraints on Monsoons in the Presence of Proximal Deserts

9:45 AM - 10:15 AM: Break

10:15 AM - 11:30 AM: Session 8: Tropical Cyclone Structure. Session chair: Lance Bosart

- Kristen Corbosiero — Analysis of ensemble variability in secondary eyewall formation
- Patrick Duran — The Upper-Tropospheric Structure of Tropical Cyclones
- Kun Gao — How do boundary layer roll vortices affect the hurricane?
- Chia-Ying Lee — Statistical Modeling of Tropical Cyclone Intensity Climatology

11:30 AM - 12:30 PM: Discussion of Tropical Cyclone - Environmental Interactions and Tropical Cyclone Intensity and Predictability

12:30 PM - 1:30 PM: Lunch – Terrace

1:30 PM: Workshop concludes.

---

## Poster Session A

Poster session A presenters should be present at their poster on **Wednesday from 6:00 PM to 7:00 PM.**

- Sarah Ditchek — A Composite Study of the Tropical Cyclone Outflow Layer
- John Dwyer — Mechanisms of Projected Changes in the Annual Cycle of Tropical Precipitation
- Lawrence Gloeckler — A Composite Assessment of Relationships between the Madden-Julian Oscillation, Tropical Cyclones, and the Extratropical Circulation
- Peter Yau — Tropical cyclogenesis: diagnostic investigation and numerical simulation of easterly wave breaking

---

## Poster Session B

Poster session B presenters should be present at their poster on **Thursday from 6:00 PM to 7:00 PM.**

- Yuan-Ming Cheng — The Influence of Madden-Julian Oscillation on the Characteristics of African Easterly Waves
- Naftali Cohen — Has the number of Indian summer monsoon depressions decreased over the last 30 years?
- Michael Fischer — The Influence of an Upper-Tropospheric Potential Vorticity Anomaly on Rapid Tropical Cyclogenesis
- Casey Peirano — Revisiting the Problem of Trough Interactions and Tropical Cyclone Intensity Change