Session Program

5–7 May 2021

Workshop on Spatial Organisation of Convection, Clouds and Precipitation

Modelling and Parameterising Deep Convective Organisation

virtual

Wednesday 5 May

15:00

Modelling and Parameterising Deep Convective Organisation: Introduction

Session | **Location:** virtual

15:15

15:15

Modelling and Parameterising Deep Convective Organisation: Guiding Questions

Session | **Location:** virtual | **Conveners:**
Brian Mapes, J. David Neelin, Cathy Hohenegger, Ronald Dickman, Douglas Parker, Mitchell Moncrieff

15:30

15:30

Modelling and Parameterising Deep Convective Organisation: Poster Pitches

Session | **Location:** virtual

16:00

16:00

Modelling and Parameterising Deep Convective Organisation: Interactive Session

Session | **Location:** virtual

16:00–17:45 **Theory of precipitation probability distributions**

Speaker
Prof. J. David Neelin

16:00–17:45 **Organized Convection Parameterization for GCMs**

Speaker
Mitchell Moncrieff

16:00–17:45

Cold Pools and the Organization of Tropical Convection in Global Cloud-System Resolving Simulations

Speaker
Steven Krueger

16:00–17:45

The Effects of the Unified Parameterization in the CWBGFS: the Diurnal Cycle of Precipitation over Land in the Maritime Continent

Speaker
Mr Chun-Yian Su

16:00–17:45 **Subcloud layer circulation of isolated moist convection cells**

Speaker
Christopher Moseley

16:00–17:45

The fractal nature of clouds in global convection-resolving simulations and satellite data

Speaker
Hannah Christensen

16:00–17:45 **In search of ghost cold pools and moisture rings**

Speaker
Ms Enora Le Gall

16:00–17:45 **Observed land effects on characteristics of organised convection**

Speaker
Cornelia Klein

16:00–17:45 **Conceptualizing diurnal surface warming in the tropical ocean**

Speaker
Reyk Börner

16:00–17:45 **How do families of MCSs organize in time and space?**

Speaker
Irene Livia Kruse

16:00–17:45

Defining a cold pool-resolving scale for numerical simulations of convective self-organisation

Speaker
Romain Fiévet

16:00–17:45

A stochastic model for tropical precipitation clustering and connections to branching processes

Speaker
Fiaz Ahmed

16:00–17:45

Self-Aggregation from Cold Pool Interaction and Global Energy Constraints

Speaker
Jan Haerter

16:00–17:45

Essentially Lagrangian simulation of clouds using the Moist Parcel-In-Cell (MPIC) model

Speaker
Steven Boeing

16:00–17:45 **Understanding the Triggering of Nor’westers over West Bengal, India**

Speaker
Rituparna Sarkar

16:00–17:45

Scale-free distributions in nature: an overview of self-organized criticality

Speaker
Ronald Dickman

16:00–17:45 **The diurnal path to persistent convective self-aggregation**

Speaker
Gorm Gruner Jensen

16:00–17:45

Extreme precipitation scaling, rain cell sizes, and the role of cold pools, and their relation to climate change

Speaker
Geert Lenderink

16:00–17:45

Identification and visualization of (high-impact) vortices on different scales

Speaker
Lisa Schielicke

16:00–17:45

Treating Deep Convective Updrafts in the Tropical Atlantic like Interacting Particles?

Speaker
Fabian Senf

17:45

17:45

Modelling and Parameterising Deep Convective Organisation: Panel Discussion

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Brian Mapes, Douglas Parker, Cathy Hohenegger, Ronald Dickman, J. David Neelin, Mitchell Moncrieff

18:45