

Session Program

5-7 May 2021

Workshop on Spatial Organisation of Convection, Clouds and Precipitation

Organisation in Shallow Convection

virtual

Friday 7 May

15:00

Organisation in Shallow Convection: Introduction

Session | Location: virtual

15:15

Organisation in Shallow Convection: Guiding Questions

Session | Location: virtual | Conveners: Graham Feingold, Louise Nuijens, Pier Siebesma

15:30

Organisation in Shallow Convection: Poster Pitches

Session | Location: virtual

16:00

Organisation in Shallow Convection: Interactive Session

Session | Location: virtual

16:00-17:45

On the relationship between precipitation and its spatial patterning in the Trades

Speaker

Jule Radtke

16:00-17:45

The Role of Cloud-Cloud Interactions in the organization shallow cumulus clouds

Speaker

Jingyi Chen

16:00-17:45

From Sugar to Flowers: A Transition of Shallow Cumulus Organization During ATOMIC

Speaker

Pornampai Narenpitak

16:00-17:45

The coupling of winds and clouds in organized shallow convection

Speaker

Louise Nuijens

16:00-17:45

The Role of Mesoscale Cellular Convective Cloud Morphologies in Low Cloud Feedbacks

Speaker

Dr Isabel McCoy

16:00-17:45

Lagrangian LES of Cloud Organization from EUREC4A

Speaker

Peter Blossey

16:00-17:45

Cloud patterns in four dimensions

Speaker

Martin Janssens

16:00-17:45

A climatology of trade cumulus cold pools and their link to mesoscale cloud organization

Speaker

Raphaela Vogel

16:00-17:45

Drivers of Lagrangian evolution of mesoscale cellular convection in eastern subtropical oceans

Speaker

Ryan Eastman

16:00-17:45

The Rainy-Bénard model: Convective organisation and equilibria in a simple framework.

Speaker

Douglas J Parker

16:00-17:45

Objective classification of cloud organisation with unsupervised neural networks

Speaker

Leif Denby

16:00-17:45

Do shallow cumulus clouds and convective plumes share the same statistics?

Speaker

Philipp Griewank

16:00-17:45

What determines the growth of humidity fluctuations?

Speaker

Pier Siebesma

16:00-17:45

Coupling a thermal population model to a discretized spectral convection scheme

Speaker

Roel Neggers

16:00-17:45

Process-oriented evaluation of AROME-OM with a focus on its representation of organization

Speaker

Florent Beucher

16:00-17:45

A unified shallow-deep mass flux cumulus parameterization based on a stochastic multicloud model

Speaker

Boualem Khouider

16:00-17:45

Spatial Scales of Organisation in Southern Ocean Stratocumuli

Speaker

Jessica Danker

16:00-17:45

Cloud field organisation in trade-wind cumulus: a consequence of precipitation efficiency**Speaker**

Graham Feingold

16:00-17:45

Multifractal constraints on cloud and precipitation structure in LES**Speaker**

Mikael Witte

16:00-17:45

The impact of cold pools on the transition from shallow to deep convection over land**Speaker**

Marcin Kurowski

16:00-17:45

Role of subsidence vertical structure for stratocumulus precipitation and mesoscale organization - a CLARIFY case study**Speaker**

Jan Kazil

16:00-17:45

Covariability of trade-wind cloudiness and environmental conditions in large-eddy simulations and observations**Speaker**

Hauke Schulz

17:45

17:45

Organisation in Shallow Convection: Panel Discussion**Session** | **Location:** virtual | **Conveners:** Louise Nuijens, Graham Feingold, Pier Siebesma

18:30