

Session Program

5-7 May 2021

**Workshop on Spatial Organisation of
Convection, Clouds and Precipitation**

***RCE and Processes in Deep Convective
Organization***

virtual

Thursday 6 May

15:00

RCE and Processes in Deep Convective Organization: Introduction

Session | Location: virtual

15:15

15:15

RCE and Processes in Deep Convective Organization: Guiding questions

Session | Location: virtual | Conveners: Allison Wing, Adrian Tompkins, Mrs Caroline Muller

15:30

15:30

RCE and Processes in Deep Convective Organization: Poster Pitches

Session | Location: virtual

16:00

16:00

RCE and Processes in Deep Convective Organization: Interactive Session

Session | Location: virtual

16:00–17:45

How do ocean temperature anomalies favor or disfavor the aggregation of deep convective clouds?

Speaker

caroline muller

16:00–17:45

Surface moisture exchange and its influence of self-aggregation in RCEMIP simulations.

Speaker

Chiel Van Heerwaarden

16:00–17:45

Predicting cold pool strength as a function of rain duration and intensity

Speaker

Bettina Meyer

16:00–17:45

Transition to self-aggregation with enhanced variability for increasing CO₂ concentration in radiative-convective equilibrium with a slab ocean

Speaker

Gabor Drotos

16:00–17:45

Merge or die - how long-lived convective events develop in cold pool-suppressed self-aggregation

Speaker

Ms Ronja Gronemeyer

16:00–17:45

Cloud-radiation interactions in RCEMIP runs of convective self-aggregation

Speaker

Christopher Holloway

16:00–17:45

How weakened cold pools facilitate convective self-aggregation**Speaker**

Mr Silas Boye Nissen

16:00–17:45

Radiative controls on the speed of growth of deep convective self-aggregation**Speaker**

Benjamin Fildier

16:00–17:45

Impact of microphysics on tropical precipitation extremes in a global storm-resolving model**Speaker**

Jiawei Bao

16:00–17:45

Significant amplification of instantaneous extreme precipitation with convective self-aggregation**Speaker**

Nicolas Da Silva

16:00–17:45

Cold pool dynamics shape the response of extreme rainfall events to climate change**Speaker**

Kai Lochbihler

16:00–17:45

Competition between shear-organized and unorganized convection in large-domain CRM simulations**Speaker**

Brian Mapes

16:00–17:45

Impact of a mixed ocean layer and the diurnal cycle on convective aggregation**Speaker**

Adrian Tompkins

16:00–17:45

Convective aggregation in idealized stochastic models**Speaker**

Giovanni Biagioli

16:00–17:45

Self-Aggregation of Convection in the RCEMIP Ensemble**Speaker**

Allison Wing

16:00–17:45

Searching for signatures of self-aggregation in less idealized atmospheres**Speaker**

Cathy Hohenegger

16:00–17:45

Radiative-convective-equilibrium as a “boutique” configuration of the Simple-Cloud-Resolving-E3SM-Atmosphere-Model (SCREAM)**Speaker**

Hassan Beydoun

16:00–17:45

Influence of large-scale subsidence on convective aggregation**Speaker**

David Coppin

17:45

17:45

18:30

RCE and Processes in Deep Convective Organization: Panel Discussion**Session** | **Location:** virtual | **Conveners:** Allison Wing, Mrs Caroline Muller, Adrian Tompkins