

Stochastic Workshop

2-3 March 2021

Webex meeting – all times are CET (UTC+1)

Tuesday 2nd March

Tuesday, 2. March 2021

9:00 | (UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna | 8 hrs

Join from the meeting link

<https://dwd.webex.com/dwd-en/j.php?MTID=mca72e250e419e32d8adcbe01f16541ed>

Join by meeting number

Meeting number (access code): 181 055 5342

Meeting password: fyYgu2TE33\$

9:50 – 10:05 Connection

Chairperson: Chiara Marsigli

10:10 – 10:20 Opening, purpose of the meeting (C. Marsigli)

10:20 – 11 :00 George Craig (LMU): Introductory talk about intrinsically stochastic parametrisations

11:10 – 11:40 Mirjam Hirt (LMU): Stochastic Parameterization of Processes Leading to Convective Initiation in Kilometer-Scale Models

11:40 – 11:50 break

Chairperson: Alan Hally

11:50 – 12:20 Axelle Fleury and Francois Bouttier (Météo-France, Toulouse): Stochastic physics experiments in the AROME model

12:20 – 12:50 Michael Whittall (Met Office): Plans for a stochastic version of the comorph convection scheme

12:50 – 13:00 Collection of questions and open issues

13:00 – 14:00 Lunch break

Chairperson: Alfons Callado

14:00 – 14:40 Judith Berner (NCAR): Stochastic microphysics at convection resolving scales

14:50 – 15:20 Martin Leutbecher (ECMWF): Stochastic representation of model uncertainties at ECMWF

15:20 – 16:00 Discussion

Collection of questions and open issues

Wednesday 3rd March

Wednesday, 3. March 2021

9:00 | (UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna | 8 hrs

Join from the meeting link

<https://dwd.webex.com/dwd-en/j.php?MTID=m59b82735f518506866c8acdfcde0ad01>

Join by meeting number

Meeting number (access code): 181 476 2291

Meeting password: PTknXMJ@234

10:00 – 10:10 Connection

Chairperson: Christian Keil

10:10 – 10:40 Mirijana Sakradzija (MPI): Local impact of stochastic shallow convection on clouds and precipitation in the tropical Atlantic

10:40 – 11:10 Maike Ahlgrimm (DWD): An update about the stochastic shallow convection scheme in ICON at DWD

11:10 – 11:20 break

Chairperson: Inger-Lise Frogner

11:20 – 11:50 Sophia Schäfer (DWD): Uncertainties, stochastic and deterministic components in radiation modelling

11:50 – 12:20 Mikhail Tsyruльников and Dmitriy Gayfulin (RHM): Attempts to objectively identify a stochastic model for model errors

12:20 – 12:50 Martin Sprengel and Christoph Gebhardt (DWD): Characterization of the model error in ICON-D2-EPS using a flow-dependent partial SDE

12:50 – 13:00 Collection of questions and open issues

13:00 – 14:00 Lunch break

Chairperson: Chiara Marsigli

14:00 – 14:20 Moritz Pickl (KIT): A process-oriented perspective on stochastic physics, with a focus of SPPT on warm conveyor belts in the IFS

14:30 – 16:00 Discussion:

Presentation of the open issues (Anne McCabe, Marco Arpagaus)

Discussion

16:00 End of the meeting