

Stochastic Workshop

2-3 March 2021

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

Tuesday 2nd March

9:50 – 10:05 Connection

10:10 – 10:20 Opening, purpose of the meeting (Chiara)

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

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

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

13:00 – 14:00 Lunch break

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

10:00 – 10:10 Connection

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

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

11:50 – 12:20 Mikhail Tsyrlunikov 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

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
Discussion

16:00 End of the meeting

List of participants

Surname	Name	Institution
Ahlgrimm	Maike	DWD
Andrae	Ulf	SMHI
Arpagaus	Marco	MCH
Astakhova	Elena	RHM
Bellaire	Sascha	MCH
Berner	Judith	NCAR
Bouttier	Francois	Meteo France
Callado	Alfons	AEMET
Craig	George	LMU
Denhard	Michael	DWD
Fannon	James	Met Eireann
Fleury	Axelle	Meteo France
Frogner	Inger-Lise	Met.no
Gastaldo	Thomas	Arpae-SIMC
Gayfulin	Dmitriy	RHM
Gebhardt	Christoph	DWD
Gleeson	Emily	Met Eireann
Hally	Alan	Met Eireann
Hirt	Mirjam	University of Munich
Javorne-Radnoczi	Katalin	Met Hu
Keil	Christian	University of Munich
Leutbecher	Martin	ECMWF
Machulskaya	Ekaterina	DWD
Marsigli	Chiara	DWD
Matsunobu	Takumi	LMU
Mccabe	Anne	Met Office
Minguzzi	Enrico	Arpae-SIMC
Mironov	Dmitrii	DWD
Pickl	Moritz	KIT
Poli	Virginia	Arpae-SIMC
Porson	Aurore	Met Office
Puh	Matjaž	LMU
Sakradzija	Mirjana	Max-Planck-Institut für Meteorologie
Schäfer	Sophia	DWD
Schlemmer	Linda	DWD
Schulz	Jan-Peter	DWD
Seifert	Axel	DWD
Sprengel	Martin	DWD
Stirling	Alison	Met Office
Szintai	Balazs	Met Hu, C-SRNWP
Tsyulnikov	Mikhail	RHM
Whitall	Michael	Met Office