2nd Early Career Scientists Workshop
June 6-9th 2016, Kaub

Program

Monday, June 6th

13:00 - 14:00	*Light lunch*
14:00 - 14:15	Welcome
14:15 - 15:45	Talks (12 min + 3 min discussion) A1- Theoretical aspects of upscale error growth on the mesoscales (Lotte Bierdel) A1 - Predictability experiments with ICON (Tobias Selz) A1 - Potential vorticity dynamics of forecast errors (Marlene Baumgart) A1 - Local Finite Amplitude Wave Activity as diagnostic for Rossby Waves packets (Paolo Ghinassi) A2 - A comparison of different cloud models (Juliane Rosemeier) A2 - The Euler equations coupled with a cloud model (Bettina Wiebe)
15:45 - 16:15	*Coffee Break*
16:15 - 17:45	Talks (12 min + 3 min discussion) A4 - Storm structure during extratropical transition (Christian Euler) A4 - Storm structure during extratropical transition (Tobias Kremer) A5 - The role of soil moisture and surface- and subsurface water flows on predictability of convection (Joel Arnault) A6 - Stochastic boundary layer perturbations to improve the representation of convective initiation (Stephan Rasp) A6 - Representing forecast uncertainty with physically-based stochastic perturbations (PSP) in the boundary layer (Fabian Brundke) A7 – Interactive 3D Visualization of Clouds (Theresa Diefenbach)
18:30 - 20:00	*BBQ*

Tuesday, June 7th

09:00 - 10:30	Talks (12 min + 3 min discussion) A Subcritical Percolation Model for Shallow Cumulus Clouds (Julia Mack) B1 - Idealized simulations of deep convective clouds (Constanze Fischerkeller) B3 - Relative impact of surface and aerosol heterogeneities on the initiation of deep convection (Linda Schneider) B3 - Precipitation sensitivity on land-surface heterogeneities (Florian Baur) B4 - Radiative heating and cooling at cloud scale and its impact on dynamics (Mares Barekzai) B4 – Atmospheric radiation and its impact on weather (Nina Crnivec)
10:30 - 11:00	*Coffee Break*
11:00 - 12:30	Talks (12 min + 3 min discussion) B6 - Parameter estimation using the ensemble Kalman filter approach (Yvonne Rockstuhl)

	B7 - Online parameter identification on a cloudmodel (Nikolas Porz) C2 - Dynamics of dry and wet spells of the West African Monsoon (Andreas Schlüter) C3 - Dynamics and predictability of three Medicane case studies (Enrico DiMuzio) C3 - Predictability of Tropical Transition in the North Atlantic Ocean (Michael Meier-Gerber) C5 - Predictability of winter storms (Florian Pantillon)
12:30 - 13:30	*Lunch*
13:30 - 14:00	Introduction to Git and the W2W Gitlab Code Repository Server (Robert Redl)
14:00 - 15:00	From Python to COSMO (1). Part I: Implementation of a Simple Diagnostic in Python (Robert Redl)
15:00 - 15:30	*Coffee Break*
15:30 - 17:00	From Python to COSMO (1). Part II: Visualization of COSMO Output using Python and COSMO-Utils (Heiner Lange)
18:00 - 19:00	*Dinner*

Wednesday, June 8th

09:00 - 10:30	From Python to COSMO (1). Part III: Identifying Slow Code Sections and Implementing them in FORTRAN (Robert Redl)
10:30 - 11:00	*Coffee Break*
11:00 - 12:30	From Python to COSMO (1). Part IV: General Structure of the COSMO Model (Uli Blahak)
12:30 - 13:30	*Lunch*
13:30 - 15:00	From Python to COSMO (1). Part V: Improving Performance by Implementation of the Diagnostic in COSMO (Uli Blahak)
15:00 - 19:30	*Hiking to Lorch*
19:30 - 22:00	*Dinner and wine tasting in Lorch*

Thursday, June 9th

09:00 - 10:45	Talks (12 min + 3 min discussion) C4 - The connection between Northern Hemisphere heat waves and large-amplitude quasi-stationary Rossby wave packets (Georgios Fragkoulidis) C4 - Synoptic and Mesoscale Dynamics of European heat waves (Pila Bossmann) C7 - Probabilistic forecasting and comparative model assessment based on ensembles (Sebastian Lerch) C2 - Postprocessing for precipitation forecasts over West Africa (Peter Vogel) A1 - Parameter Tuning in the Plant-Craig Stochastic Convection Scheme (Anne Martin) A2 – A dynamical system approach to cirrus clouds (Elisa Spreitzer) Predictability of Convective Scales: Influence of synoptic forcing and orography (Kevin Bachmann)

10:45 - 11:15	*Coffee Break*
11:15 - 12:30	Final discussion

(1) This session contains practical sections.

Practical information

The workshop is located in Haus Elsenburg in Kaub (www.haus-elsenburg.de). The accommodation is not far away from the station, but you have to walk a bit uphill. Contact Marlene if you have a lot of baggage and want to be picked up at the station.