COSMO User Workshop

15 January 2018

Goal

The COSMO User Workshop is intended as a platform to meet other COSMO users and get to know the work of each other. This year's program consists of short talks aiming at introducing new COSMO users/developers and their project and longer presentations. The allocated time also includes a few minutes at the end for questions.
We hope that you will enjoy this lively mix in an informal and interactive atmosphere!

Location

MeteoSwiss, Operation Center 1, Zürich airport, Room 5-331

Program

10.15	– 10.20	Andreas Pauling, MeteoSwiss, Numerical Prediction **Welcome and general information**
		New COSMO User introductions
10.20	– 10.25	Stephanie Westerhuis, MeteoSwiss, Numerical Prediction
10.25	– 10.30	Randulph Morales, EMPA, Modelling and Remote Sensing group
10.30	– 10.35	Iris Thurnherr, IAC ETH, Atmospheric Dynamics group
10.35	– 10.40	Fabienne Dahinden, IAC ETH, Atmospheric Dynamics group
10.40	– 10.45	Ronny Meier, IAC ETH, Land-Climate Dynamics group
10.45	– 10.50	Daniel Regenass, IAC ETH, Climate and Water Cycle group
10.50	– 10.55	Nora Helbig and Michael Schirmer, SLF, Snow Hydrology group
		COSMO User presentations
10.55	– 11.10	Stephan Henne, EMPA, Modelling and Remote Sensing group **Brief overview of COSMO activities at Empa**
11.10	– 11.30	Dominik Brunner, EMPA, Modelling and Remote Sensing group **CO2 simulations of city and power plant plumes to analyze the capability of a future imaging CO2 satellite to quantify anthropogenic emissions**
11.30	– 11.45	Philippe Marti, C2SM **ENIAC: Porting ICON to GPUs**
11.45	– 12.00	Tobias Wicky, C2SM **PASCHA: DSL compiler toolchain**

12.00	– 12.20	Pirmin Kaufmann, MeteoSwiss, Numerical Prediction **Advantages and deficits of COSMO in the operational forecasting**
12.20	***– 13.35***	***Lunch***
13.35	– 13.55	Daniel Wolfensberger, EPFL, Environmental Remote Sensing Laboratory group **Sensitivity of simulated radar observables to the COSMO drop size distribution and to hydrometeor geometry and scattering models**
13.55	– 14.15	Gesa Eirund, IAC ETH, Atmospheric Physics group **What controls Arctic mixed-phase cloud properties in the Arctic? Insights from high resolution modeling**
14.15	– 14.35	Sascha Bellaire, SLF, Snow and Permafrost group **PT SAINT: on snow cover modelling in COSMO**
14.35	– 14.55	Maike Hacker, University of Bonn **Modeling the spatial and temporal variability of fog in the Namib desert with COSMO-PAFOG**
14.55	***– 15.25***	***Coffee Break***
15.25	– 15.40	Stefan Rüdisühli, IAC ETH, Atmospheric Dynamics group **Precipitation and Fronts in a Decadal Convection-Resolving COSMO Simulation Over Europe**
15.40	– 15.50	Annika Oertel, IAC ETH, Atmospheric Dynamics group **Embedded convection in warm conveyor belts**
15.50	– 16.05	Davide Panosetti, IAC ETH, Climate and Water Cycle group **Convergence behavior of convection-resolving simulations of summertime deep convection over land**
16.05	– 16.20	Brigitta Goger, University of Innsbruck, Atmospheric Dynamics group **Simulations of boundary-layer processes and turbulence with COSMO-1 in complex terrain**
16.20	– 16.35	Roman Brogli, IAC ETH, Climate and Water Cycle group **Is a Change in the Hadley Circulation Relevant for the Amplified Future Summer Warming in the Mediterranean?**
16.35	– 16.40	Andreas Pauling, MeteoSwiss, Numerical Prediction **Closing remarks**
16.40	**Open end**	***Apero***