Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Eidgenössisches Departement des Innern EDI
Bundesamt für Meteorologie und Klimatologie MeteoSchweiz

COSMO User Workshop
21 January 2020

Goal

The COSMO User Workshop is intended as a platform to meet other COSMO users and get to know the work of each other. Sessions with oral presentations are complemented with extended coffee breaks where new COSMO users/developers have the opportunity to present their project on posters. The allocated time of 20 minutes for oral presentations includes a few minutes for questions.

We hope that you will enjoy this lively mix in an informal and interactive atmosphere!

Location
Empa Akademie, Überlandstrasse 129, 8600 Dübendorf (see directions at the end)

Program

09.00	– 09.10	Dominik Brunner, **Welcome and general information**
09.10	– 09.30	Stephan Henne, Empa, Atmospheric Modelling and Remote Sensing **FLEXPART-COSMO activities at Empa**
09.30	– 09.50	Pavle Arsenovic, Empa, Atmospheric Modelling and Remote Sensing **Carbon Tracker - COSMO: Estimating biospheric CO_2 fluxes from a dense CO_2 observation network over Switzerland**
09.50	– 10.10	Gesa Eirund, IAC ETH, Atmospheric Physics **The impact of warm and moist airmass intrusions on Arctic mixed-phase stratocumulus**
10.10	– 10.30	Jonas Jucker, C2SM ETH **Improving COSMO with the new radiation scheme CLOUDRAD**
10.30	*– 11.30*	*Coffee Break and poster session*
11.30	– 11.50	Sascha Bellaire, MeteoSwiss **The new snow cover scheme for COSMO and ICON: Status and Future plans**
11.50	– 12.10	Christian Steger, IAC ETH, Climate and Water Cycle **Improving the representation of snow cover in a kilometre-scale climate model by considering topographic effects on surface radiation**
12.10	– 12.30	Annika Oertel, IAC ETH, Atmospheric Dynamics **Investigating the dynamical relevance of embedded convection in warm conveyor belts using online trajectories in convection-permitting COSMO**

		simulations
12.30	*– 13.30*	*Lunch*
13.30	– 13.50	Claire Merker, MeteoSwiss **Data assimilation activities at MeteoSwiss**
13.50	– 14.10	Bryn Pickering, ETH, Climate Policy Group **COSMO reanalysis performance in complex terrain: analysis of wind variability in Switzerland**
14.10	– 14.30	Christian Zeman, IAC ETH, Climate and Water Cycle **Heavy Precipitation and Vertical Winds in High-Resolution Atmospheric Models**
14.30	– 14.50	Andries de Vries, IAC ETH, Atmospheric Dynamics **Ice cloud formation pathways and their isotopic signals in high-resolution COSMOiso simulations of the African monsoon**
14.50	*– 15.50*	*Coffee Break and poster session*
15.50	– 16.10	Roman Brogli, IAC ETH, Climate and Water Cycle **Impose climate changes to existing CCLM simulations: Development of new software**
16.10	– 16.30	Ronny Meier, IAC ETH, Land-climate dynamics **The effect of biomass heat storage in offline and coupled simulations**
16.30	– 16.50	Carlos Osuna, MeteoSwiss **Status and roadmap of COSMO & ICON on accelerators**
16.50	– 17.00	Feedback and final discussion
17.00	**End**	

Directions

The meeting will take place at the Empa Akademie, Überlandstrasse 129, 8600 Dübendorf.
https://www.empa.ch/documents/20195/56305/directions_duebendorf_en.pdf

From Zurich airport
When coming from the airport, the easiest way is to take tram no 12 with direction 'Stettbach' (light blue number) from the bus/tram terminal just in front of Zürich airport. After approximately 20 minutes you have to leave at station 'Dübendorf, Giessen', which is close to the Empa Akademie.

From Zürich downtown
Frequent suburban trains travel to either Stettbach (S3,S9,S12) or Dübendorf (S9,S14). From Stettbach, you can take tram 12 to 'Dübendorf, Giessen', or bus 760 to 'Empa', from where the meeting location can be reached after a short walk. The meeting venue can also be reached by walking (10 min) from the Dübendorf train station.