

COSMO/ICON User Workshop

19 January 2021

Goal

The COSMO/ICON User Workshop is intended as a platform to meet other COSMO and ICON users and get to know the work of each other. Due to the pandemic this year's edition will be held online. The allocated time of 15-20 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

Online; We will provide the logistical information at a later date

Program

09.00	– 09.05	Andreas Pauling, MeteoSwiss, Welcome and general information
09.05	– 09.10	Lukas Papritz, IAC ETH, Atmospheric Dynamics ICON activities in atmospheric dynamics group
09.10	– 09.15	Gesa Eirund, IBP ETH, Environmental Physics Marine extreme events in high-resolution coupled model simulations
09.15	– 09.20	Bernat Jiménez Esteve, IAC ETH, Atmospheric Predictability On the Role of Large-Scale Topography in Shaping the Frequency and Characteristics of Extratropical Heatwaves using the ICON model
09.20	– 09.25	Constanze Burckhardt, EMPA, Atmospheric Modelling and Remote Sensing COSMO-GHG CO2 simulations in stable boundary layers in comparison with ceilometer and CO2 sensor data
09.25	– 09.30	Michael Steiner, EMPA, Atmospheric Modelling and Remote Sensing Preparing ICON and ICON-ART for inverse modelling of greenhouse gas emissions
09.30	– 09.35	Boriana Chtirkova, IAC ETH, Climate and Water Cycle ICON-A, global scale, to examine causes of variation of surface solar radiation

09.35	– 09.50	Time for questions
09.50	– 10.10	Christoph Heim, IAC ETH, Climate and Water Cycle Inter-model Variability in Convection-resolving Simulations of Subtropical Marine Low Clouds
10.10	– 10.30	Roman Brogli, IAC ETH, Climate and Water Cycle Future summer warming under climate change is regulated by lapse-rate changes
10.30	– 10.50	Break
10.50	– 11.10	Dominik Brunner, EMPA, Atmospheric Modelling and Remote Sensing Overview of EMPA activities including transition plans from COSMO- to ICON-based inverse modelling in the IG3IS-CH project
11.10	– 11.30	Stephanie Westerhuis, MeteoSwiss, Numerical Prediction Development A locally smoothed vertical coordinate to improve forecasts of fog and low stratus
11.30	– 11.50	Guy de Morsier, MeteoSwiss, Numerical Prediction Development Towards an operational ICON at MeteoSwiss - First results and road map
11.50	– 12.10	Sascha Bellaire, MeteoSwiss, Numerical Prediction Development On getting a new snow cover scheme operational at MeteoSwiss
12.10	– 12.30	Claire Merker, MeteoSwiss, Numerical Prediction Development Assimilation of remote sensing profiler data at MeteoSwiss
12.30	– 13.30	Lunch
13.30	– 13.50	Xavier Lapillonne, MeteoSwiss, Numerical Prediction Computing Status of the GPU port of ICON for NWP applications
13.50	– 14.10	Carlos Osuna, MeteoSwiss, Numerical Prediction Computing Overview of Domain-Specific Language (DSL) developments for ICON
14.10	– 14.30	Matthieu Leclair, IAC ETH, Climate and Water Cycle COSMO Unified OASIS interface, the return
14.30	– 14.45	Dylan Reynolds, SLF, Snow Hydrology Dynamic downscaling of COSMO data resolves preferential deposition of precipitation
14.45	– 15.00	Bert Kruyt, SLF, Snow Hydrology Downscaling COSMO data to sub-km resolutions for operational and research purposes @ SLF
15.00	– 15.20	Break
15.20	– 15.40	Sylvaine Ferrachat, IAC ETH, Atmospheric Physics Overview of the group's activities
15.40	– 16.00	Lukas Jansing, IAC ETH, Atmospheric Dynamics Lagrangian analysis of Foehn flows

16.00	– 16.20	Stephan Henne, EMPA, Atmospheric Modelling and Remote Sensing Evaluation of COSMO-GHG simulations of power plant plumes with airborne measurements
16.20	– 16.40	Michael Jähn, EMPA, Atmospheric Modelling and Remote Sensing COSMO-GHG simulations of 14C to support the design of a radiocarbon measurement network in Europe
16.40	– 17.00	Final discussion and feedback (future scope of the event)
17.00	End	