

Parallel Session WG PHY Urban

Tuesday, 15 September 2026, 14:00 – 18:00 CEST

Chair: Jan-Peter Schulz, Room Plenary

Online: <https://comlog.webex.com/comlog/j.php?MTID=m93d7102ddece2aa6ad41925956d1763d>

14:00 – 14:10	Jan-Peter Schulz	Introduction and Agenda
14:10 – 14:30	Amalia Iriza-Burca, M. Pietrisi, Stefan Dinicila, Stefan Gabrian, Rodica Dumitrache	Study of a temperature inversion case over eastern Romania: Modelling errors and TERRA_URB impact
14:30 – 14:50	Stefan Gabrian, Stefan Dinicila, R. E. Gabrian, Amalia Iriza-Burca	Monthly verification of the new operational configuration of ICON-RO with TERRA_URB Recovering the late phase of a retrograding severe storm with aerosol-aware ICON-RO deterministic forecasting
14:50 – 15:10	Adam Jaczewski, Andrzej Wyszogrodzki, Artur Surowiecki, Witold Interewicz, Bartłomiej Sobczyk	Status of current urban modeling activities at IMGW-PIB
15:10 – 15:30	Andrea Zonato, Massimo Milelli	Building-resolving urban radiative modelling for thermal stress forecasting: The GLIDE-SOL workflow
15:30 – 16:00	All	COFFEE BREAK
16:00 – 16:20	Angelo Campanale, Stefania Oliva, Jan-Peter Schulz, Marianna Adinolfi, Mario Raffa, Paola Mercogliano	Synergies among Urban Heat Islands, Urban Dry Islands, and heat stress during heatwaves: Evidence from a Bologna case study using the urbanized ICON model
16:20 – 16:35	Ludovico Mattavelli, Thomas Gastaldo, Jan-Peter Schulz, Virginia Poli, Davide Cesari, Enrico Minguzzi, Chiara Marsigli	Evaluation of ICON-2I with TERRA_URB across winter and summer seasons
16:35 – 16:55	Kutay Dönmez, Dominik Brunner	The BEP-Tree urban canopy model coupled with ICON

28th COSMO General Meeting

Rome, Italy
14-18 September 2026

16:55 – 17:15	Yann von der Weid, Christian R. Steger, Marco Arpagaus, Oliver Fuhrer	Investigating the effect of TERRA_URB in a kilometre-scale ICON forecasting configuration over Switzerland
17:15 – 17:30	Nagaraju Gaddam, Ludovico Mattavelli, Thomas Gastaldo, Carlo Cintolesi, Jan-Peter Schulz, Andrea Zonato, Paolo Ruggieri, Chiara Marsigli, Silvana Di Sabatino	Inter-comparison of ICON TERRA_URB and WRF BEP+BEM at 500 m for urban heatwave events over Bologna
17:30 – 17:40	Tanguy Houget, Valeria Garbero, P. Salizzoni	Local-scale urban heat island modeling: A machine learning approach using citizen data
17:40 – 18:00	All	Discussion, follow-up project of PP CITTA'