



C2I – Concluding Remarks

D. Rieger and the PP C2I team











C2I Milestones: Workshop

09.00

09:30 - 10:30

10:30 - 11:00

10:30 - 11:00

11:00 - 12:30

12:30 - 13:30

13:30 - 15:30

15:30 - 16:00

16:00 - 17:30

17:30 - 18:00



C2I Workshop on Setup & Experiments 15 – 19 Oktober 2018

in: COSMO News Letter No. 18, 2018, page 17-27

- -> Focus on performing ICON-LAM simulations with the individually chosen configurations: Different areas, different initial and boundary data, ...
- Talks on 'Getting Started with ICON', 'Overview on ICON-LAM settings', 'Visualization of -> ICON data with GrADS' and 'Introduction Fieldextra'
- -> Most of the time was dedicated to working with ICON in the individually chosen configuration (with ICON developers available for assistance)
- -> 30 Minutes 'Synchronization' each day to share the individual achievements of the day
- > After setting up a 'basic' forecast for their domain at DWD's Cray, the participants continued with their individual priorities

Established a network, very important for the further success of C2!!



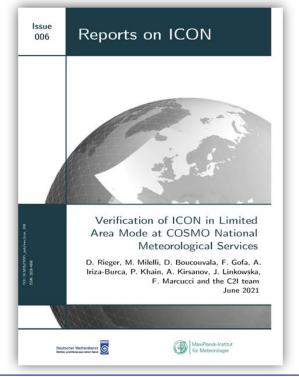


Verification of ICON in Limited Area Mode at COSMO National Meteorological Services

in: Reports on ICON, 006, 2021, https://doi.org/10.5676/DWD_pub/nwv/icon_006

C2I Milestones: Verification Report

- Summarizing verification results for the September/October/November 2020 ➔
- Publication in ,Reports on ICON' to reach the ICON Community ->
- -> Verification results mostly positive
 - ➔ Especially for surface
- Upper air shows slightly better results for COSMO ->
 - First results with new ICON versions are promising
- Precipitation
 - Improvements for Poland, Romania and Common Area
 - Neutral for Greece, Italy and Israel **>**







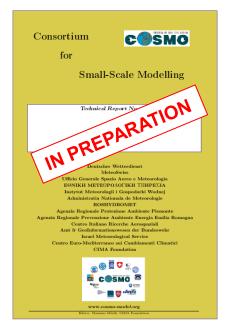
C2I Milestones: Final Report

The COSMO Priority Project Transition of COSMO to ICON-LAM: C2I Final Report

in: COSMO Technical Reports, in preparation

- > Results for one full year of verification
- ICON shows mostly better performance than the COSMO model \rightarrow
- → INMET Brazil contributes a section with results from May 2022

Publication planned for October 2022













COSMO General Meeting, 09/2022



Several COSMO Activities and Projects continue the work started in PP C2I

PP ICON-COMFORT

- Extend the forecasters' feedback subtask of PP C2I
- Prepare for a continuous activity on a mid- to long-term perspective

PP C2I4LC

- → Technical support is crucial for a successful transition from COSMO to ICON.
- Licensing countries will start the transition phase soon
- Prepare a support framework to guarantee a smooth transition

Continuous Verification (WG5)

- → In terms of FTE, verification was the largest topic in PP C2I
- > ICON becomes more and more the focus of national and common area verification presented regularly in WG5





Operationalization of ICON

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DWD

COSMO Member	Configuration	Operationalization
Germany	ICON-D2	11/2019 (pre-operational) 02/2021 (operational)
Greece	ICON-GR2.5	Pre-operational: 06/2019 (not time-critical) Operational: 2023 (planned)
Israel	ICON-IL2.5	06/2020
Italy	ICON-IT ICON-2I	07/2020; Full switch: Q4/2023 (Ensemble requires GPU-capable version) 06/2022 (pre-operational)
Poland	ICON-PL	09/2022
Romania	ICON-RO-2.8km	01/2020
Switzerland	ICON-1E ICON-2E	Q1/2024 (Requires GPU-capable version)









Thanks to everyone involved in PP C2I!

C2I has a very, very long list of contributors from each COSMO member state, so I will focus on my contact points:

Dimitra Boucouvala, Flora Gofa, Theodore Andreadis and the Greek team Pavel Khain, Alon Shtivelman and the Israeli team Francesca Marcucci, Valeria Garbero, Ines Cerenzia, Edoardo Bucchignani and the Italian team Joanna Linkowska, Witold Interewicz and the Polish team Amalia Iriza-Burcă, Rodica Dumitrache and the Romanian team André Walser, Guy de Morsier and the Swiss team Reinaldo Silveira, Gilberto Bonatti and the Brazilian team

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