

# SPM Overview

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# Outline

- **COSMO-model next release and transition to ICON-LAM**
- **COSMO publications**
- **Still a lot to do**

# COSMO-Model Version 6.0 and beyond

**Version 6.0, a unified version for NWP and climate modelling, is going to be the latest release of the COSMO model**

The release of 6.0 is expected in **December 2019** (optimistic scenario) or in **March 2020** (more realistic scenario)

Beyond that point in time

- the COSMO code is frozen,
- only maintenance is provided (incl. bug fixes),
- the current SCA (Uli Schättler) will take care of ICON-LAM

**Please take these points into account as you plan your future work within COSMO (when drafting new PPs or PTs, etc.)**

# Some Possibly Useful Hints

**COSMO has been and is a strong and innovative consortium. Let us stay so!**

As you plan your future contributions, please keep in mind

- Limited life expectancy of the COSMO model
- The last COSMO-model version is 6.0 which is frozen beyond March 2020
- ICON community is large and is growing, information exchange between its (many) members is vital
- Duplication of efforts should be avoided, do get informed about what the ICON partners are planning/doing

# Future Role of SMC

## With the advent of ICON

- the COSMO consortium and the CLM community no longer have full control over the source code of their model,
- efficient coordination of efforts between COSMO and CLM and the other members of the ICON community is required, and
- the flow of information between the ICON partners, the COSMO consortium and the CLM community is vitally important.

A proposal-type document **“Adaptation of the COSMO SMC when transiting to the ICON model”** is drafted by the SMC. It is being further extended and modified in co-operation with the STC (we learn by doing!).

**Final version should be ready in September 2019**

# NWP Test Suite

## Work in progress

- COSMO-model version 5.06: runs completed (hindcast mode, lateral BCs 3 hrs apart), verification of results ongoing (there are still unresolved issues), daft report submitted 5.9.2019, all in all v5.06 passed the test
- ICON-LAM: first technical implementation nearly ready, realization of mixed initialization with the IFS atmosphere and the ICON soil has to be investigated

## During the transition period

- both the last COSMO-model versions and the ICON-LAM should be tested
- extra billing units at ECMWF are required

**More info in WG6 plenary talk**

# COSMO Publications: Good News

## COSMO Technical Reports are now published with DOIs

DOI format: 10.5676/dwd\_pub/nwv/cosmo-tr\_XX (XX is the TR number)

Landing page at DWD [https://  
dwd.de/EN/ourservices/cosmo\\_technical\\_reports/cosmo\\_technical\\_reports.htm](https://dwd.de/EN/ourservices/cosmo_technical_reports/cosmo_technical_reports.htm)

DOIs are also provided for all Technical Reports published so far (work in progress, c/o WG6)

A few latest TRs with DOI shown at the title page are available at the COSMO web

<http://www.cosmo-model.org/content/model/documentation/techReports/default.htm>

# COSMO Publications (cont'd)

**COSMO Newsletters are also published with DOIs**  
(starting with NL No. 19)

DOI format: 0.5676/dwd\_pub/nwv/cosmo-nl\_XX\_YY (XX is the NL number, and YY is the number of contribution within NL XX)

Landing page at DWD

[https://www.dwd.de/EN/ourservices/cosmo\\_newsletter/cosmo\\_newsletters.html](https://www.dwd.de/EN/ourservices/cosmo_newsletter/cosmo_newsletters.html)

**NB 1:** NL No. 19 has more contribution than previous NL

**NB 2:** Many Mission Reports were not submitted (but the COSMO money used), Mission Reports should give a brief overview of the meeting attended (not only of the authors' own contribution)

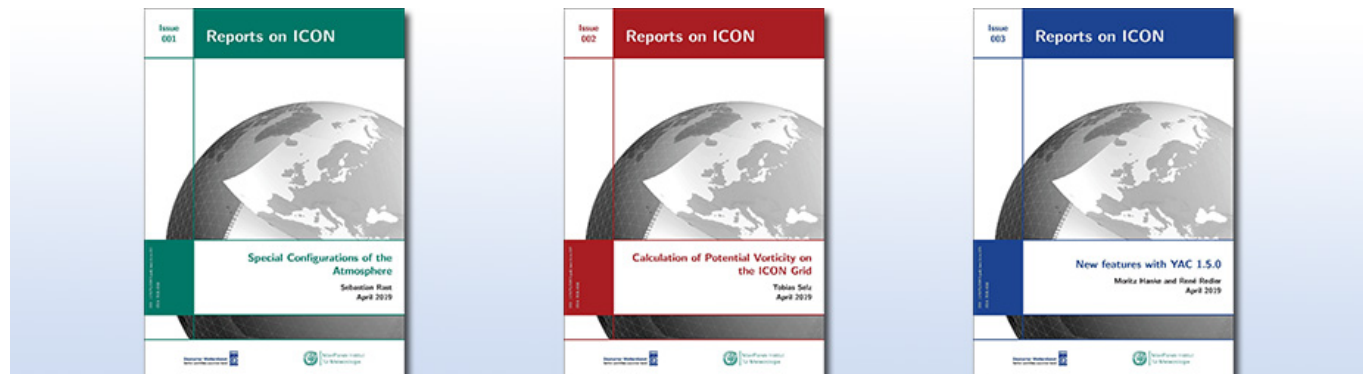


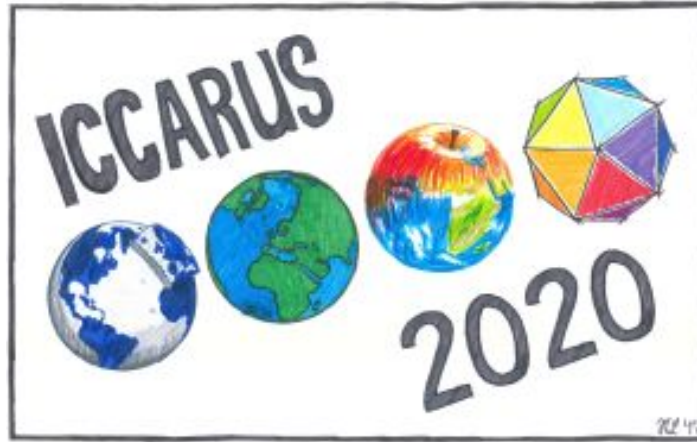
# COSMO Publications (cont'd)

**Great thanks are due to the DWD colleagues Magdalena Bertelmann and Jörg Rapp for their kind efforts in providing DOIs for COSMO publications!**

Apart from COSMO Technical Reports, contributions can be submitted to the “Reports on ICON” series (DWD editors are Florian Prill, Daniel Reinert and Daniel Rieger)

[https://www.dwd.de/EN/ourservices/reports\\_on\\_icon/reports\\_on\\_icon.html](https://www.dwd.de/EN/ourservices/reports_on_icon/reports_on_icon.html)





- ICCARUS 2020 (ICON- COSMO-CLM-ART USER SEMINAR) will take place from 2-6 March 2020 at the DWD headquarters in Offenbach ([www.dwd.de/iccarus](http://www.dwd.de/iccarus))
- **Note** that COSMO WG, PP and PT and the CLM-Community meetings, and, for the first time, the **ICON developer meeting** will take place during ICCARUS 2020. **Communities can grow together, joint sessions, many advantages!**

**Thank you for  
your kind attention!**