

New Priority Projects and Priority Tasks

(dmitrii.mironov@dwd.de)

Extension of PP EX-CELO (WG2) and PP CEL-ACCEL (WG6)

Titles: “Extension of COSMO-EULAG operationalization” and
“COSMO-EULAG on accelerators”

Leader: Zbigniew Piotrowski (IMGW)

Duration (start and end dates): March 2017 – September 2019,
extension until March 2020

Reason for extension: PPs were delayed due to unavailability of human
resources, the project teams should finish the work planned

FTEs: no extra FTEs

Participants: IMGW (EX-CELO), IMGW and MCH (CEL-ACCEL)

Status: **extension of both PPs approved by the STC 6 September 2019,
work in progress**

Extension of PPs EX-CELO and CEL-ACCEL (cont'd)

NB: future contributions (beyond September 2019, beyond March 2020 for EX-CELO and CEL-ACCEL participants) of the EULAG team to the ICON-LAM development, testing, performance analysis, etc., is being extensively discussed. Suggestions are welcome!

PT AEVUS2 (WG3b)

Title: analysis and evaluation of TERRA_URB scheme 2

Leader: Paola Mercogliano (CIRA)

Aim: Consolidate the implementation of the TERRA_URB scheme in the COSMO model, draft a new PT or PP aiming at transferring these developments into the ICON model.

Duration (start and end dates): September 2019 – August 2020

FTEs: 1.1 (COSMO) + 0.6 (external partners)

Participants: CIRA, ARPA-Piemonte, RHM, DWD, Ruhr University of Bochum, Flemish Institute for Technological Research, Politecnico di Torino

Status: **approved by the STC 10 September 2019**

The PT proposal was comprehensively and very vividly discussed at the SMC level.

PT AEVUS2 (cont'd)

NB: PT AEVUS2 is very much in line with the COSMO strategy as it appropriately accounts for specific features (and the associated difficulties!) of the transition period, viz., the reduced rate of development of the COSMO model and its limited life expectancy, and the contribution to the development of the ICON model into which the consortium is getting increasingly involved.

PP AWARE (WG4 and WG5)

Title: Appraisal of "Challenging WeAther" FoREcasts

Leader: Flora Gofa (HNMS) and Anastasia Bundel (RHM)

Aim: to try out a number of forecast methods and evaluation approaches that are linked to high impact weather (not necessarily considered extreme to all users) and to provide COSMO Community with an overview and recommendations as to how Challenging Weather/High Impact Weather situations should be handled.

Duration (start and end dates): September 2019 – August 2021

FTEs: 4.15

Participants: HNMS, RHM, ARPAE-SIMC, DWD, IMGW-PIB, MCH, NMA

Status: approved by the STC 10 September 2019, preliminary work started

Note: PP addresses cross-cutting issues, joint effort of WG4 and WG5 with the contribution from WG7

PP CAIIR (WG3a)

Title: Clouds and Aerosols Improvements in ICON Radiation Scheme

Leader: Harel Muskatel (IMS)

Aim: to address various issues regarding cloud optics, aerosols-radiation interactions, aerosols-cloud interactions and shallow convection topics with the aim to further improve the ecRAD radiation parameterization scheme recently implemented into ICON; comprehensive testing of the new code will be performed, results for several locations will be compared with observational data.

Duration (start and end dates): March 2020 – February 2022

FTEs: 5.95

Participants: IMS, DWD, RHM

Status: [the PP proposal is discussed by the SMC, STC decision is due in March 2020](#)

NB: beneficial for ICON development [i.a. results of PP T2(RC)2 will be transferred to ecRAD in ICON]; PP T2(RC)2 is extended until March 2020

Thanks for your kind attention!

Acknowledgements: thanks are due to members of PP and PT teams for drafting the proposals, and to SMC members and other colleagues for comments and suggestions.