Appendix A. Application form for admission in the CLM-Community

The person/people mentioned below declare their willingness by signature to accept and implement the guidelines of the "Community agreement on the joint utilisation and further development of the regional climate model COSMO-CLM" without restrictions and to use the model exclusively for scientific investigations within the framework of the research topic stated here or by a research topic description given at a later time.

Personal data

Last Name	Paixao	First Name	Felicitas
email	felicitas.paixao@list.lu		
Phone Number	004915781609037		

Institution

Name	Luxembourg Institute of Science and Technology		
Unit/Departm.	Environmental Research & Innovation		
Working Group	Agroenvironmental Systems		
Address	41, rue du Brill		
City	Belvaux	Zip Code	L-4422
Country	Luxembourg		

Topic

Topic Name	Dynamical downscaling of seasonal forecast products
Brief Description (200-2000 letters)	The work should be about a dynamical downscaling of ECMWF's seasonal forecast system 5 (SEAS5) with the Consortium for Small-scale Modeling (COSMO) in CLimate Mode (COSMO-CLM) for the great region with the center in Luxembourg, focusing the study in JJA (summer). This should show a yet to be defined added value of the RCM to the driving GCM for the regional climate and help making decicions in the agricultural sector. To be of help it is being considered to place modules for e.g. pest forecasts to the end of the GCM-RCM-postprocessing chain. This consideration is not an active part of my future work and has to be decided by others though. The resulting work should be a Master's Thesis and eventually be also published. As I am still at the beginning of my work I would like to get a better insight of the CCLM and I would like to use WebPEP.

Keywords

☐ aerosols	☐ cloud microphysics	☐ model dynamics	☒ precipitation	☐ wind
☐ atm. boundary layer	☐ convection	☐ model efficiency	☐ radiation	☐ water cycle
☐ atm. chemistry	☒ extr. weather events	☐ numerical methods	☐ soil	other
☐ biogeochemical cycle	☒ intial/boundary cond.	☐ ocean / seaice	☐ vegetation	

COSMO-CLM usage ☐ model development ☒ application

Planned simulation characteristics

Periods (from - to): 01.05.2018-01.09.2018

Forcing:
- ☐ (Re-)analysis data
- ☒ Climate model data
- ☐ idealized

Horizontal Grid Resolution(s):
- ☐ <3km
- ☒ 3-10km
- ☐ 10-20km
- ☐ 20-30km
- ☐ >30km

Region(s): n/a, Europe, Africa, Asia

I want to contribute to following working group(s)(choose at least one)

- ☐ AIO: Atmosphere, Ice and Ocean
- ☐ CCAR: The Chemistry, Clouds, Aerosols and Radiation
- ☒ CP: Climate Projections
- ☐ CRCS: Convection resolving climate simulations
- ☐ DYNNUM: Dynamics and Numerics
- ☐ EVAL: Evaluation
- ☐ SOILVEG: Soil and Vegetation
- ☐ SUPTECH: Support and Technical Issues

Wishes for cooperation/Fields in which cooperation is desired:

I have read the Data protection Information.

Date: 27.05.2019

Signature

Print Form and sign and Submit by Email

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