Project: **721** Project title: **COSMO/CLM Training** Principal investigator: **Andreas Will** Report period: **2019-01-01 to 2019-12-31**

The <u>LAST</u> COSMO-CLM Training was conducted 8-12 April 2019 in the training center of DWD in Langen in cooperation with the German weather service. The DKRZ machine was used for the exercise. The materials for the training, the presentations given during the theoretical lessons and the tutorial for the practical exercises are made available on internet via

https://www.clm-community.eu/index.php?menuid=208&reporeid=379

for members of the CLM-Community. For security reasons, the overall access to the server of the CLM-Community had to be restricted after an unfriendly attack. However, the materials can be made available on request.

All of the 25 participants of the training conducted the CLM exercises. They are using the COSMO-CLM for scientific studies now.

From 2020 onwards the Numerical Model Training Course will be based on ICON limited area model. A higher number of participants is expected in 2020.

In order to prepare the training 2019 a 20 year reference simulation was conducted at 0.44 Deg. Resolution over Europe using the recent cosmo_5.0_clm19 model version. These results have been made available to the participants as reference solutions for comparison with own results and for statistical data analysis. Additionally, idealised test cases for dynamics and numerics and trouble shooting exercises have been conducted. During the training week all participants in the COSMO-CLM training conducted short time simulations of 2 months for each exercise.

In 10-12 2019 a course is conducted at BTU Cottbus-Senftenberg in Environmental Modelling. Four students are using COSMO-CLM and a series of simulations will be conducted focusing on the effect of lakes on the regional climate.

We would like to thank the DKRZ support team for fast solutions to problems and the overall kind support.