Project: **1149**

Project title: **CCLM2ESGF (COSMO-CLM to be published on ESGF)**

Principal investigator: **Christian Steger**

Report period: **2020-11-01 to 2021-08-31**

All simulations from CORDEX-CORE and PRINCIPLES that have been produced by the CLM-Community with CORDEX – CMIP5 have been published on ESGF.

The downscaling of CMIP6 simulations will start end of 2021 / beginning of 2022, as soon as the decisions about the model output, scenarios and GCMs as boundary conditions for the downscaling have been taken by CORDEX / EURO-CORDEX and all information are made available. The CLM-Community will contribute to the downscaling of CMIP6 simulations within CORDEX (CORDEX – CMIP6). All simulations will be published on ESGF to make the data available to the public, including the climate research and impact communities, climate services and policy consultancy.

It would be helpful to continue the collaboration between DKRZ and CLM-Community for the publication of (CORDEX)-simulations via ESGF and keep the established workflow via this project. No computing time is required, only storage space for the transfer and storage of the data for the ESGF publication. The necessary storage amount is difficult to estimate, because the number of simulations and the output size of each simulation depend on decisions by CORDEX / EURO-CORDEX, which have not been taken yet. In 2022 and the following years, the CLM-Community will certainly contribute with a large number of simulations, but how many will come in 2022 cannot be predicted at the moment. Therefore, we ask for an increase of storage space to 200 TB. We will adjust the request for 2023 and the following years, in 2022 when more information is available and the number of simulations that will be produced by the CLM-Community in CORDEX – CMIP6 and the schedule are clearer.