

Project: **1237**

Project title: **Composing a joint D-A-CH climate scenario ensemble**

Principal investigator: **Nora Leps**

Report period: **2022-11-01 to 2023-10-31**

Text: Maximum of two pages including figures. Reports for joint projects may be longer.

As in the first year of the project only a small proportion of the requested node hours and storage space were used. Still, the project has to deal with shortages in terms of personnel resources.

However, some of the main activities have been started, among them:

- Identification of Global Warming Level periods from CMIP5 and CMIP6 GCMs, also for intermediate levels, which are not described in the available literature (Experiment No. 3).
- Implementation of a bias correction method ("scaled distribution mapping"). The method was tested for the recent generation of EURO-CORDEX simulations based on CMIP5 and for different observation and reanalysis data sets serving as reference (Experiment No. 2)
- Setup of a stable version of the empirical statistical downscaling method EPISODES. Realisation of a first cross validation in order to define an optimal selection of predictor variables for EPISODES (Experiment No.2).

Activities (especially) for Experiment No.2 are currently in progress. Personnel resources for the planned tasks are guaranteed for the next year(s) by external projects of the 1237-team members.

Team members currently also apply for additional personnel resources for the activities of the experiments No. 1 and No. 3. Hence, there is a good chance that all planned activities can proceed notably within the next year.