Project: **1363**

Project title: **CORDEX-FPSCONV2ESGF**

Principal investigator: **Klaus Görgen**

Report period: **2025-05-01 to 2026-04-30**

Project report

Project 1363 is a data project. The entire storage volume on Levante's WORK filesystem is used to prepare and publish RCM climate change simulation for a Greater Alpine Region model domain from the WCRP CORDEX Flagship Pilot Study "Convective phenomena at high resolution over Europe and the Mediterranean" (CORDEX-FPSCONV) initiative through the DKRZ ESGF data node under the "CORDEX-FPSCONV" project ID.

The 2025/26 reporting period is the 3rd allocation period.

During the 2025/26 period, additional 9 FPSCONV ensemble datasets, worth of 24TB, were prepared (CMORization, QA-checking), transferred to Levante storage (UFTP from JSC), and became ready (check-summing, adjustment of directory structures) for ESGF publication, during Winter 2025/26. This is data of the 2nd branch or batch of data for ESGF publication. Because of the ESGF-NG transition, we refrained from an ESGF publication of the 2nd batch during March/April 2026.

With the additionally added 24TB, the utilized Levante storage data volume amounts to 136TB of 142TB granted, at the end of the 2025/26 reporting period.

ESGF-published data are also on tape backup.

The CORDEX-FPSCONV simulation results are collected on a dedicated OpenStack server at JSC, where the community QA-checking and joint analyses are done. From there data are transferred to DKRZ for ESGF publication in batches or branches, each containing several complete simulation experiments, depending on the availability of CMORized and QA-checked CORDEX-FPSCONV simulation results.

We originally planned with three batches: Batch 1 was published as planned in 2023/24, batch 2 was due in 2024/25 and is now about ready for publication; batch 3 was planned for 2025/26 for ESGF publication, currently a mid to late 2027 publication seems feasible (period 2027/28).

Please note the experiment table contains the complete FPSCONV dataset, i.e., batch 1, 2, and 3.

A data set publication featuring the CORDEX-FPSCONV DKRZ ESGF and other ESGF data node publications by Goergen et al. is still under preparation for Scientific Data.