

Project: **1088**

Project title: **DKRZ_MIP_Pool_Analysis**

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Report period: **2024-11-01 to 2025-10-31**

The DKRZ_MIP_Pool_Analysis project supported individual researchers with (smaller scale) data analysis activities closely related to the exploration of existing DKRZ data collections (accessible via /pool/data) with specific focus on the CMIP6 (and CORDEX) collections stored as part of the DKRZ data project ik1017.

In the reporting period individual users and research teams with no pre-existing project allocation at DKRZ were enabled to access the DKRZ data pool and perform small scale data analysis near to the data. This effort is coordinated at European level with similar efforts at IPSL (France), STFC (UK) and CMCC (Italy) to provide coordinated European support for CMIP related data analysis activities. Coordination started as part of the IS-ENES3 project which ended in April 2023 and now ENES research infrastructure (ENES RI) related service activities are coordinated as part of the ENES data task force and will be coordinated in the future based on a legal entity for the ENES RI which is currently being finalized.

Individual users were supported with a light weight (short term, small compute profile) access to analysis capabilities mostly via the DKRZ jupyter-hub installation (see <https://is.enes.org/sdm-climate-analytics-data/>). These users only need to pass a lightweight registration process and are reviewed and selected locally at DKRZ.

In the reporting period about 15 people registered for the service. Overall, around 3000 node hours were used (allocation was 8000 node hours). We expected heavier usage from the European EXPECT project, yet a dedicated EXPECT project was granted at DKRZ in 2025.

During the reporting period the project was used to support European service activities as part of IRISCC where interdisciplinary researchers (exploiting an EOSC virtual research environment) are provided with access to CMIP6 data. Additionally individual researchers were supported with respect to downscaling (and bias correcting) CMIP6 data and with respect to testing evaluation codes (by core members of the ESMValTool community).

No dedicated outreach for this service was organized during the reporting period and thus the resource usage was relatively low. This will change in 2026 when the European coordination on support activities around CMIP and CORDEX data exploitation (previously organised as part of the IS-ENES project) will be reactivated. As in the past this project proved very useful to support users providing them a light-weight possibility to access the DKRZ CMIP data pool (especially the CMIP6 data collection) to generate derived data products without the need to download huge amounts of data.