

Project: **721**

Project title: **COSMO/CLM Training**

Principal investigator: **Andreas Will**

Report period: **2025-11-01 to 2026-10-31**

The Numerical Model Training Course for ICON-CLM 2026 took place at the DWD headquarters in Offenbach from 23 to 25 June 2026. The training was organised by the DWD in collaboration with the CLM Community.

Due to the training course being reorganised, only the ICON-CLM part for regional climate modelling was covered this year.

In the mornings, some lectures were given on the physical basics of the ICON model, data output and technical details of ICON (including the community interface ComIn). Afternoons were devoted to practical exercises, enabling participants to learn how to run and configure ICON-CLM for various use cases.

These exercises covered standard topics that every new user of the model needs to learn in order to configure and use the model for their own purposes. These included installing the SPICE runtime environment, changing the simulation time period and model domain, modifying boundary conditions, running higher-resolution simulations using boundary conditions derived from previously generated lower-resolution simulations, post-processing and visualising data with EvaSuite and writing model output via the ComIn community interface.

The CLM course was performed on the HPC Levante at the German Climate Computing Centre (DKRZ). We would like to thank the DKRZ for their support and resources in the preparation and implementation