

Project: **1112**

Project title: **Impact of realistic land use change on a continental scale**

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Report period: **2023-07-01 to 2024-06-30**

Land cover is still static in regional climate models. The CORDEX FPS LUCAS (Land Use Change Across Scales) consortium explores the impact of temporal and spatial varying land cover data in regional climate models on climate in a coordinated way.

Here, the provided land cover change data had to be adapted to the design of the regional climate model CCLM v6. The land use change data are based on the LANDMATE PFT data set derived from ESA CCI LC 2015. The information for past and future land use changes is derived from the LUH2 data set. The 16 LUCAS LUC PFTs were translated into the respective model-specific PFTs/land cover classes. The regional climate model was started with the new land cover data for test simulations.