README concerning the CCLM-LUCAS related dataset available via DKRZ /pool/data resources

Date: 25 October 2021

T I T L E O F T H E D A T A S E T

CCLM-LUCAS

P A T H T O T H E D A T A S E T

/pool/data/CLMcom/CCLM-LUCAS

O W N E R / P R O D U C E R O F T H E D A T A S E T

Producer: CLM-Community (www.clm-community.eu)
Contact: CLM-Community Coordination Office (clm.coordination@dwd.de, Deutscher Wetterdienst, Frankfurter Strasse 135, 63067 Offenbach)

D A T A U S A G E L I C E N S E

- The data has no specific license.

C O N T E N T O F T H E D A T A S E T

- The provided data comprises the setup, boundary conditions and forcing data necessary to run COSMO-CLM simulations in the CORDEX FPS LUCAS. But anybody can use the data who wants to compare his own simulations/results with the LUCAS experiments. The forcing data comprises the period 1979 - 2015 in a horizontal resolution of 0.44∞.
In the next phase of LUCAS (starting Jan 2022), forcing data for long-term simulations (over the period 1950-2100) in 0.11∞ resolution will be created and stored on /pool/data/CLMcom/CCLM-LUCAS. The format of the data is netcdf.

D A T A U S A G E S C E N A R I O S

- The data is used for the COSMO-CLM simulations in the CORDEX FPS LUCAS. Anybody who wants to contribute to the CORDEX FPS LUCAS, rerun the simulations or compare own results with the LUCAS experiments needs access to these datasets (at DKRZ, but data can also be copied to other HPC Systems in case the simulation should be produced somewhere else).

M E T H O D S U S E D F O R D A T A C R E A T I O N

- The data was produced by members of the CLM-Community. There are no publicatons that describe the data.

I S S U E S

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V O L U M E O F T H E D A T A S E T (A N D P O S S I B L E C H A N G E S T H E R E O F)

- The volume of the dataset is about 5 TB. In the next phase of LUCAS (starting Jan 2022), additionally higher resolved forcing data (0.11∞) for the period 1950-2100 will be created and stored on /pool/data/CLMcom/CCLM-LUCAS. For this purpose, additional storage capacity of 55 TB is needed.

TIME HORIZONOF THE DATASET ON /POOL/DATA
- CORDEX FPS LUCAS is still running and will continue for several years, therefore long-term access to these
data is required. We therefore apply for 5 years of storage allocation.