

README concerning the COSMO-CLM / ICON-CLM initial and boundary data available via DKRZ /pool/data resources

Date: 19 October 2021

T I T L E O F T H E D A T A S E T
COSMO-CLM / ICON-CLM initial and boundary data

P A T H T O T H E D A T A S E T
/pool/data/CLMcom/CCLM

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 reformatted data (caf files) has no specific license.
For license information of the original ERAInterim and ERA5 data
see: <https://www.dkrz.de/up/services/data-management/projects-and-cooperations/era>

C O N T E N T O F T H E D A T A S E T
The ERAInterim and ERA5 data that is necessary as initial and boundary conditions for COSMO-CLM and ICON-CLM are available in the input format of the models (so called caf files).
ERAInterim data is available for the time period 1979 – 2019. The data will not be extended. The data volume is 5.0 TB.
ERA5 is available from 1979 to near present. The time series is extended as soon as the original ERA5 data becomes available at DKRZ. The delay is usually about 4 month (e.g. January 2021 is provided in April 2021). The current data volume (end of 2021) is 49 TB.

D A T A U S A G E S C E N A R I O S
Anybody running evaluation or reconstruction simulations over the last few decades (reanalysis driven simulations) with COSMO-CLM and ICON-CLM requires access to this data (at DKRZ, but data can also be copied to other HPC Systems in case the simulation should be produced somewhere else).
Furthermore, the data is used for the CLM-Community training course that is organized by the CLM-Community in cooperation with Deutscher Wetterdienst each year.

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 input variables for COSMO-CLM and ICON-CLM have been selected from ERAInterim and ERA5, respectively. The data has been transferred to the input format of the models, but not changed otherwise.
The data was produced by members of the CLM-Community. There are no publications that describe the data.

I S S U E S

n/a

VOLUME OF THE DATASET (AND POSSIBLE CHANGES THEREOF)

ERAInterim data is available for the time period 1979 – 2019. The data will not be extended. The data volume is 5.0 TB.

ERA5 is available from 1979 to near present. The time series is extended as soon as the original ERA5 data becomes available at DKRZ. The delay is usually about 4 month (e.g. January 2021 is provided in April 2021). The current data volume (end of 2021) is 49 TB.

TIME HORIZON OF THE DATASET ON /POOL/DATA

– How long is the data planned to be made available via /pool/data?
– Storage resources granted until ... (cf info by WLA) ICON-CLM is at the beginning of its life cycle and will be used by the scientific community in the next decades. Therefore, we apply for 5 years of storage allocation. During that period, the ERA5 data will be updated regularly, as described above. We expect that the data will also be necessary after the 5 year period and the CLM-Community will likely apply for a continuation of the project after the first 5 year period.