README concerning the dataset ECHAM6 available via DKRZ /pool/data resources

Date: 12 April 2022

T I T L E   O F   T H E   D A T A S E T
ECHAM6 MPI-M Atmosphere Model Version 6 initial and boundary condition data

P A T H   T O   T H E   D A T A S E T
/pool/data/ECHAM6

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
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D A T A   U S A G E   L I C E N S E
Data can be used by all DKRZ users.

C O N T E N T   O F   T H E   D A T A S E T
ECHAM6 data is provided as climatology or time-series, either globally/zonally uniform or as spatial distribution data, in different horizontal (T31, T63, T127 and T255) and vertical or spectral-band resolutions. It also contains instructions and scripts for generating ECHAM6 compatible data from source input (SOURCE directory).
Boundary data for time-dependent quantities (historical and scenario) is available for at least 1850 - 2100. Several subsets (e.g. solar radiation) comprise additional periods. Currently, 4 scenarios are stored
Data is provided in NetCDF format, except for the scripts and some text files (e.g. Land Cover Types, Measuring Station Lists). Contents (variable selection) and format (gridding) of the data files is specific to ECHAM6 requirements,

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

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
There is no specific citation available for this data set. Individual subsets (such as CMIP6 data) come under their own citation, detailed in the files' metadata.
Details of the ECHAM6 model are described as part of Mauritsen, T. et al. (2019), Developments in the MPI-M Earth System Model version 1.2 (MPI-ESM1.2) and Its Response to Increasing CO2, J. Adv. Model. Earth Syst.,11, 998-1038, doi:10.1029/2018MS001400

I S S U E S
No

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)
4TB, the data is expected to increase by about 1 TB

TIME HORIZON OF THE DATASET ON /POOL/DATA

Ressourcen are granted until 2026-12-31