

Project: ECHAM5 input and boundary conditions

Project acronym for link in /pool/data: ECHAM5

Principal investigator (long-term responsible contact): TBD

Applicant (if not the same as above): TBD

Allocation period: **2022-01-01 to 2026-12-31**

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Volume	50GB
Expected Volume Change	No
License allows usage on DKRZ resources	Yes

Project overview

This project will enable sustainable access to initial and boundary conditions needed for standard ECHAM5 experiments. The links to these datasets are automatically hardcoded into the run scripts and are therefore required to be persistent over time.

These data are needed by anybody wanting to perform simulations using the ECHAM5 atmospheric model on DKRZ resources.

No citation exists, and is also not needed.

The datasets were/are created to be specifically used by ECHAM5 and are thus compatible with that model.

Data content

Data is available for a number of different spatial resolutions:

T106/ T159/ T21/ T255/ T31/ T319/ T42/ T511/ T63/ T85/

The variables contained are those required by ECHAM5 to be initialised and/or equipped with boundary conditions during a simulation.

Furthermore, the ECHAM5 project contains datasets required for ECHAM5 submodels, e.g. HAM, and greenhouse gas emissions for the SRES scenarios (greenhouse_gases_*.nc)

The datasets are available in a format specific for operation with the ECHAM5 model and are therefore suited for just this purpose.

It is not anticipated that the data volume will increase in the future.

The current data volume is 46GB.

Range of planned scientific data usage

Anybody running the ECHAM5 atmospheric model requires access to this data.

Required amount of storage space

See above.

Data Storage Usage Plan

We require 50GB of storage in order to sustainably provide access to ECHAM5 initial and boundary data.

ECHAM5 is still in use, therefore long-term access to these data is required. We therefore apply for 5 years of storage allocation.