The Data Citation Service for CMIP6 consists of early citations for the evolving CMIP6 data in the ESGF in addition to the established citation of the long-term archived IPCC DDC (Data Distribution Centre) data using DataCite DOIs.

A new data citation service is developed at DKRZ to meet this requirement.

The data citation service is critically dependent on version support within the ESGF incl. preserving metadata of all dataset versions. The integration of the service needs adaptations in the CoG portal and Search API for:
- displaying the “Show Citation” link and
- filtering of search results by version date.

Concept:

M. Stockhause, F. Toussaint, M. Lautenschlager (2015): CMIP6 Data Citation and LTA. WIP white paper.


**Why?** The Data Citation Service provides an additional ESGF user service reachable from ESGF CoG portal.

**When?** The timeline of the Data Citation Service is connected with the CMIP6 timeline.

**Perspective?** The Data Citation Service is funded by DKRZ and will be integrated in DKRZ’s service infrastructure.

---

**User Access**

**Data User / Article Writer**
Get Citation Information

**ESGF CoG Portal**

- Identification of early citations for dynamic data needs to support:
  - Filtering for Version20150101, i.e. state of ESGF search request at given date.
  - Filtering of information on unpublished datasets, and
  - Use of portal functionalities to download selected datasets.

**Resolve Data DOI**
Access ESGF Data Link

**DOI Landing Page**

- Resolve Data DOI

**Data Reviewer / Article Reader**
Access Data for Analysis

**Scientific Article**

- References
  - Early Citation of dynamic data include version / access date, e.g. data published in 2015.

**Integration in Scholarly Publishing - SCHOLI**

- Project or external catalogues
  - Harvest Citation Information

- OAI/PMH
  - Register DOI and Citation Information

- DataCite Metadata 4.0
  - CMIP6 Citation Data

---

stockhause@dkrz.de

orcid.org/0000-0001-6636-4972

cmip6cite.wdc-climate.de

www.wdc-climate.de / www.dkrz.de