

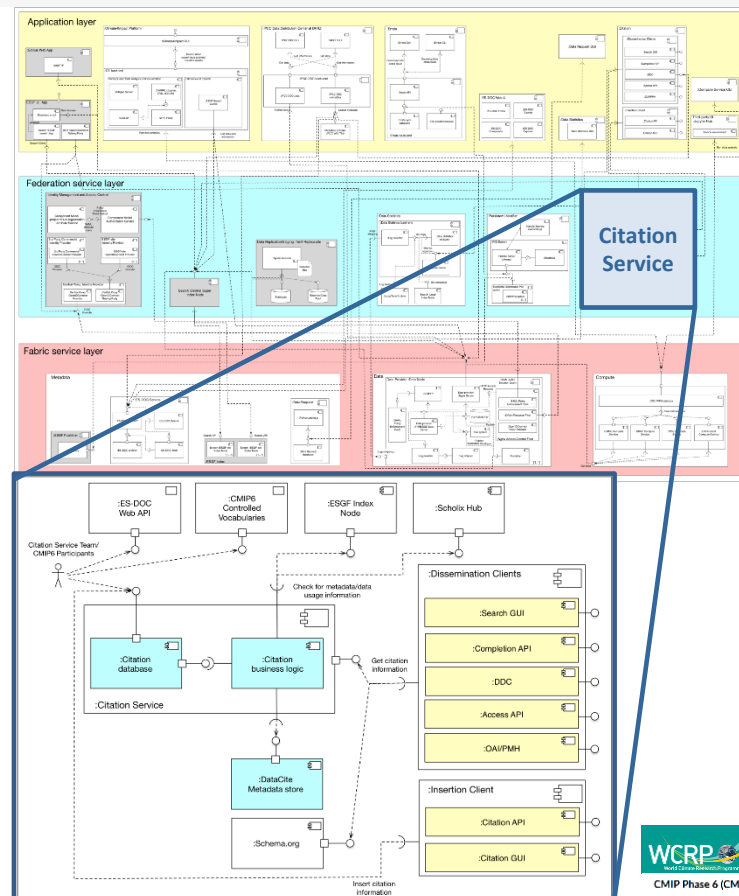
CMIP6 Citation Service: Review and Perspectives

Citation service as part of the decentral federated CMIP6 infrastructure

Coupled Model Intercomparison Project Phase 6 (CMIP6) is a project of the World Climate Research Programme (WCRP), which is jointly coordinated by CMIP and WGCM Infrastructure Panels.

Challenge of supporting data providers, infrastructure partners and data users with dedicated services for human as well as machine-access.

The citation service was very successful:
All CMIP6 datasets were citable on the AR6 WGI cut-off date
2021-01-31.



<http://cmip6cite.wdc-climate.de>

http://bit.ly/CMIP6_Citation_Search

Stockhouse and Lautenschlager., 2017. <http://doi.org/10.5334/dsj-2017-030>

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The traditional citation use cases are complemented by data services reusing data.

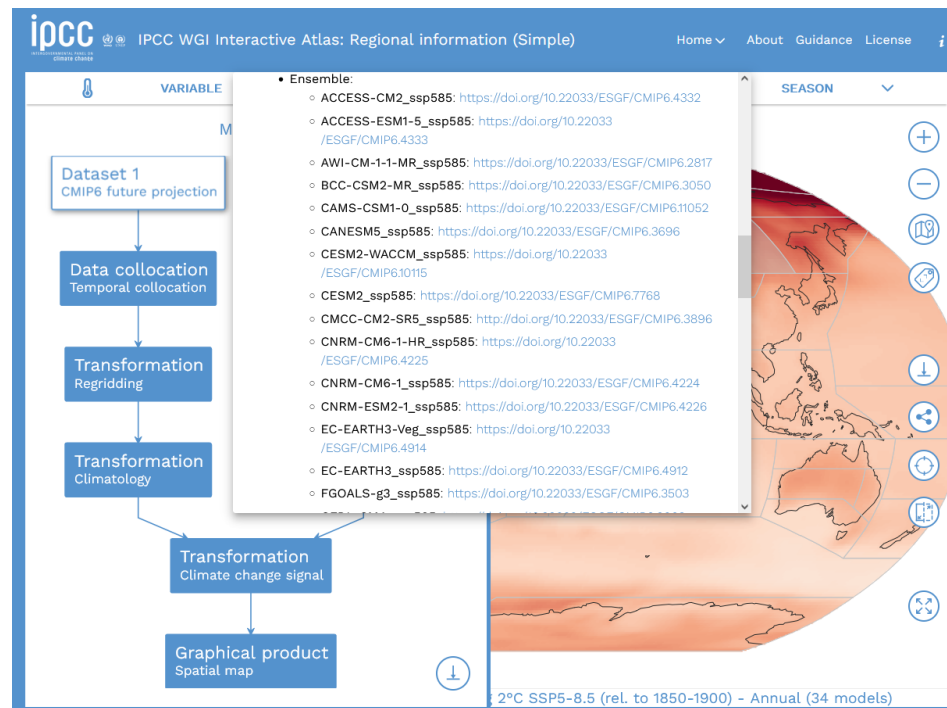
Traditional Usage:

- Data Citation in (static) scholarly publications

New Usages:

- “Dark archives” of CMIP6 data copies
- Climate Services providing domain specific (dynamic) data products
- Platforms providing access to multiple data providers, e.g. Copernicus Climate Data Store
- Cloud Services, e.g. Pangeo
- AI applications

Few services comply to the CC BY license requirement and cite the CMIP6 data, e.g. IPCC WGI Interactive Atlas



<https://interactive-atlas.ipcc.ch/>

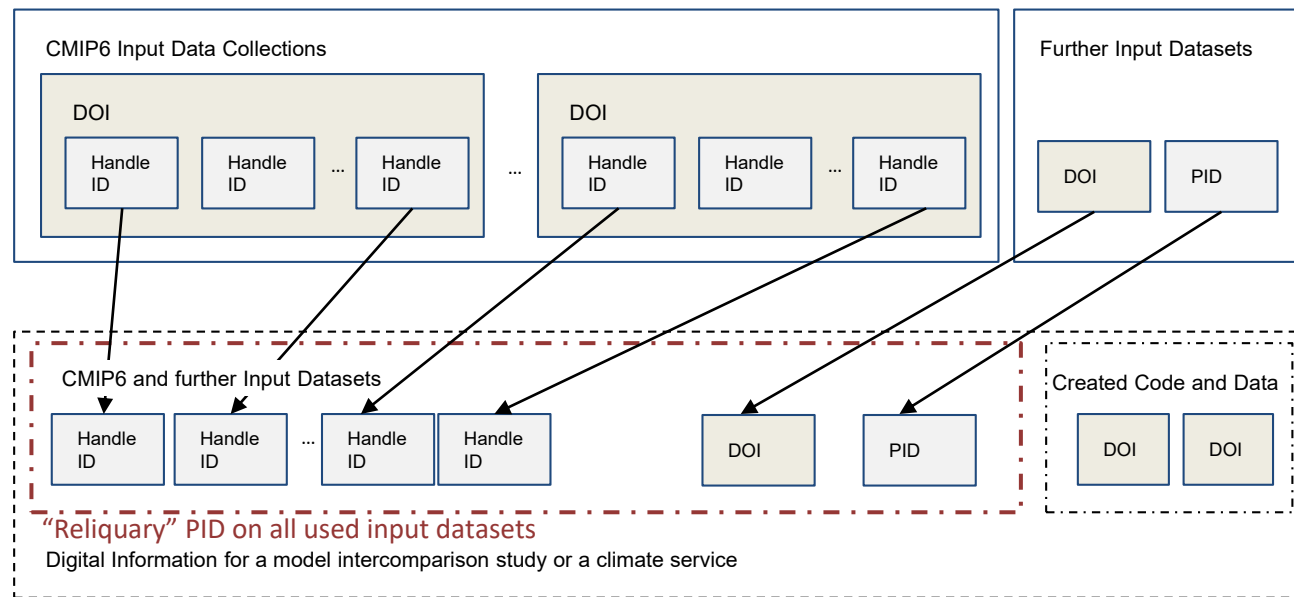
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Complex citation cases and the “Reliquary” PID concept support data citation and data reproducibility at the same time

A “Reliquary” PID on all input datasets used in a model intercomparison study or a climate service is suggested.

Technical requirements are:

- Cross-repository PID assignment
- Credit needs to be directed to the “Reliquary” content providers and not to the “Reliquary” creator.



CMIP6 Citations are one piece in the interoperable FAIR Digital Object framework of the future.