



Early Citability of Data vs Peer-Review like Data Publishing Procedures

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The World Data Center for Climate (WDCC) hosted at the German Climate Computing Center (DKRZ) was one of the first data centers, which established a peer-review like data publication procedure resulting in DataCite DOIs. Data in the long-term archive (LTA) is diligently reviewed by data managers and data authors to grant high quality and widely reusability of the published data. This traditional data publication procedure for LTA data bearing DOIs is very time consuming especially for WDCC's high data volumes of climate model data in the order of multiple TBytes.

Data is shared with project members and selected scientists months before the data is long-term archived. The scientific community analyses and thus reviews the data leading to data quality improvements. Scientists wish to cite these unstable data in scientific publications before the long-term archiving and the thorough data review process are finalized.

A concept for early preprint DOIs for shared but not yet long-term archived data is presented. Requirements on data documentation, persistence and quality and use cases for preprint DOIs within the data life-cycle are discussed as well as questions of how to document the differences of the two DOI types and how to relate them to each other with the recommendation to use LTA DOIs in citations. WDCC wants to offer an additional user service for early citations of data of basic quality without compromising the LTA DOIs, i.e. WDCC's standard DOIs, as trustworthy indicator for high quality data.

Referencing Links:

World Data Center for Climate (WDCC): <http://www.wdc-climate.de>

German Climate Computing Center (DKRZ): <http://www.dkrz.de>

DataCite: <http://datacite.org>