



The Data Publication Process at WDCC with the Assistant System Atarrabi

F. Toussaint (1), H. Höck (1), M. Dames (2), A. Düsterhus (3), A.N. Hense (3), A.V. Hense (2), M. Lautenschlager (1), F. Quadt (2), and M. Stockhause (1)

(1) Deutsches Klimarechenzentrum, World Data Centre for Climate, Hamburg, Germany (toussaint@dkrz.de), (2) Hochschule Bonn-Rhein-Sieg, Sankt Augustin, Germany, (3) Universität Bonn, Bonn, Germany

The documentation requirements of data published in long term archives have significantly grown over the last decade. At WDCC the data publishing process is assisted by “Atarrabi”, a web-based workflow system for reviewing and editing metadata information by the data authors and the publication agent. The system ensures high metadata quality for long-term use of the data with persistent identifiers (DOI/URN). By these well-defined references (DOI) credit can properly be given to the data producers in any publication.

At the World Data Centre for Climate (WDCC) Atarrabi has been in operation since June 2011. It is or will be used for the publication processes in many scientific projects such as COPS, CMIP5/CORDEX, and IS-ENES, as well as Austrian Glaciers and Field Data of the University of Hamburg.

The most recent version (Atarrabi 2.1) provides two review wizards to edit the metadata: one for the scientist and one for the publication agent. At the end of the publication process the publication agent can interact with the web service of the registration agency DataCite (datacite.org) to automatically register the persistent identifiers DOI and URN, as well as the related metadata.

Simultaneously, Atarrabi can upload all collected metadata into the CERA-2 catalogue database at the publication agency. They comprise the descriptive metadata as well as additional information like the findings of quality checks, automatically generated quick views, and other documents.

Unlike the handle type "DOI", handles in general mark digital objects which not necessarily are persistent. The various projects at WDCC envisage using this more generic form of handles to relate data objects, the corresponding metadata objects, and corresponding more general information.