



The PANGAEA® Data Warehouse

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PANGAEA® - Publishing Network for Geoscientific & Environmental Data (www.pangaea.de) currently provides published data entities for download that can be cited like publications using authors, year, title and a Digital Object Identifier (DOI). A lot of scientists, especially modellers, need compilations of various data sets for analyzing. On the other hand, data producers want to be cited for their work, which is nearly impossible with huge compilations containing thousands of distinct data sets, especially when data compilation is done manually outside of the PANGAEA data library.

We will present our recently introduced, AJAX-based web interface based on data warehouse technologies that can be used for highly efficient retrievals and compilations of time slices or surface data matrixes on any measurement parameters out of the whole data continuum. The user is able to first select the original datasets using the current PANGAEA full text search engine (based on ISO 19115 metadata). After that he can select the configuration of measurement parameters and methods for the data compilation using an innovative scoring algorithm based on the original search query. The data matrix can be downloaded along with an ISO 19115 compatible metadata description about the compilation, referencing all original datasets. Additionally, each data point can be traced back to the original, citable data set.