

PANGAEA® - Data Publisher for Earth and Environmental Science

Abstract:

PANGAEA - Data Publisher for Earth & Environmental Science (www.pangaea.de) is an Open Access data-library aimed at archiving, publishing and distributing georeferenced data from earth and environmental science. The development of the system started with the beginning of the Internet and since then PANGAEA offers data curation services to national and international projects, institutes and individual scientists. The World Data Center PANGAEA is member of the [World Data System \(WDS\)](#) of the [International Council for Science \(ICSU\)](#).

For more than 20 years, PANGAEA archives and publishes observational and analytical data together with their metadata in a relational database. Each data set includes a data-citation and is persistently identified using a Digital Object Identifier (DOI). Data are archived as a supplement related to an article or as an independent citable data-publication. Metadata and data are machine-readable and follow the FAIR principles/Data Fitness of Use.

PANGAEA currently provides more than 370 000 data sets, consisting of >12 billion data points. This includes important collections from international and national Projects conducted during the last 20 years (e.g. DSDP/ODP/IODP, WOCE, GRIP, SOCAT, WRMC-BSRN), as well as digitized and archived data records of climate observations from the 19th century - e.g., data of the first International Polar Year (IPY 1882-1883).

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