





PANGAEA®

Data Publisher for Earth and Environmental Science

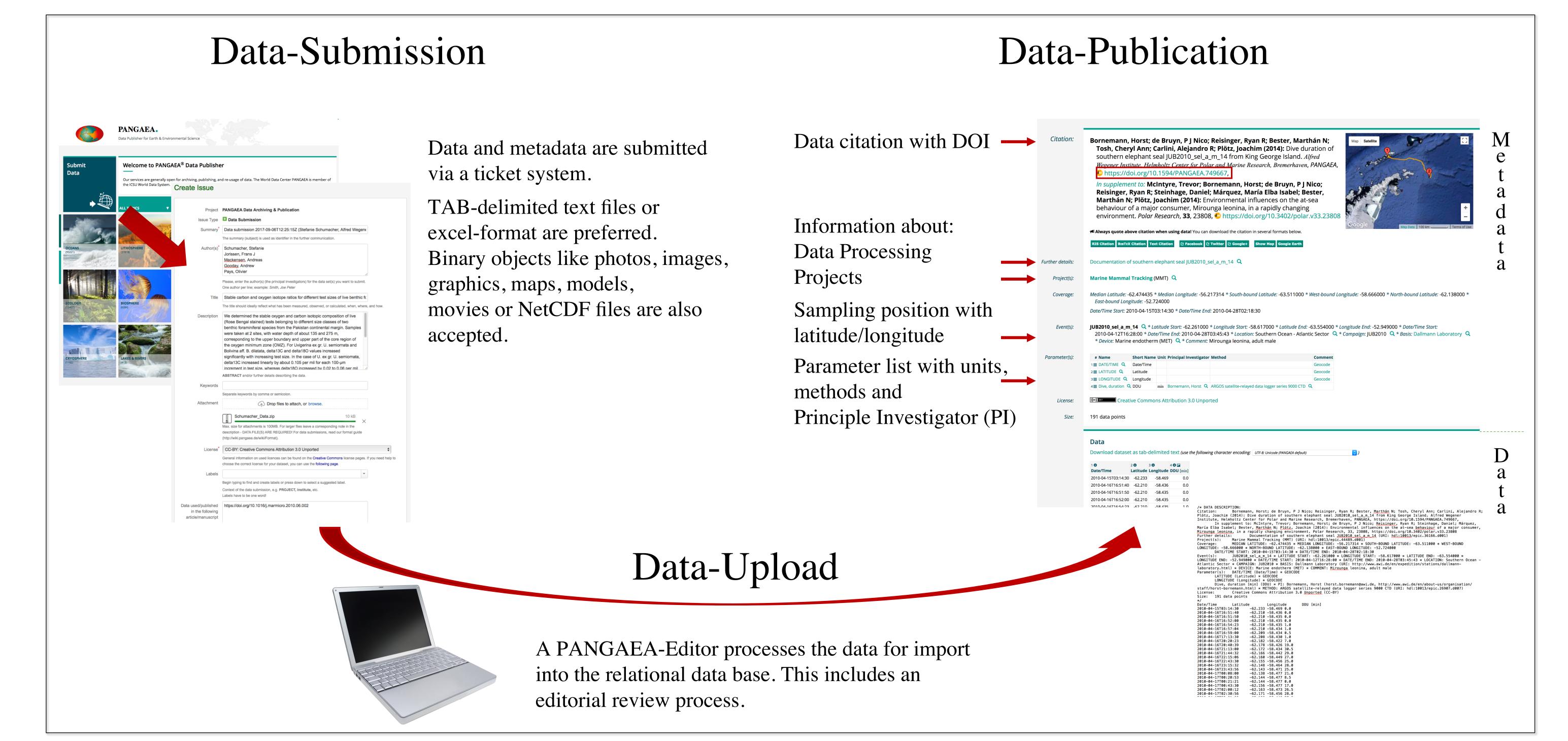
Stefanie Schumacher, Amelie Driemel, Hannes Grobe, Rainer Sieger

PANGAEA - Data Publisher for Earth & Environmental Science (<u>www.pangaea.de</u>) is an Open Access data-library aimed at archiving, publishing and distributing georeferenced data from earth system research. Observational and analytical data files are stored with their metadata in a relational database. Each data set includes a bibliographic citation with a Digital Object Identifier (DOI). Data are archived as an article supplement or as an independent citable data-publication. PANGAEA actually provides more than 375 000 data set, consisting of >13 billion data points, including collections from national and international research programs.

This includes c. 33 000 datasets from national and interantional Antarctic research, e.g., Cape Roberts Project, ANDRILL, EPICA project, and data of the first and last International Polar Year (IPY 1882-1883 and 2007-2008).

The system guarantees long-term availability of its content through a commitment of the hosting institutions Alfred Wegener Institute Helmholtz, Centre of Polar and Marine Research (AWI) and Center for Marine Environmental Sciences (marum).

PANGAEA is open to any project, institution, or individual scientist to use or to archive and publish data.





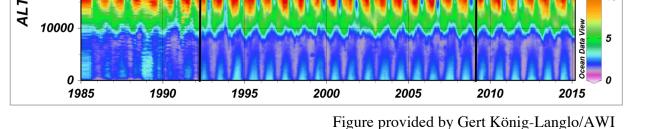
The PANGAEA Search Engine (<u>www.pangaea.de</u>) bases on Elasticsearch and provides:

- Google-like search-field for author names, parameters, projects, ships etc.
- topic based search fields
- map based search

Facetted Search offers filters to specify the search and outreach.

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PANGAEA is furnished with a well developed interoperability framework thus allowing to disseminate metadata and data to registries, data portals, and other service providers.



Archived data are machine readable and mirrored into the PANGAEA data warehouse. The data warehouse allows efficient compilations of hugh data amounts from several datasets. The output file can easily be used for further compilations, visualization and models.

PANGAEA is member of

WORLD DATA SYSTEM



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www.pangaea.de hdl:10013/epic.86d07529-b242-4590-8b52-3424c87b4b2d





BREMERHAVEN

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