

# PANGAEA Collection Types: Facts and Challenges

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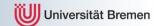


## **About**









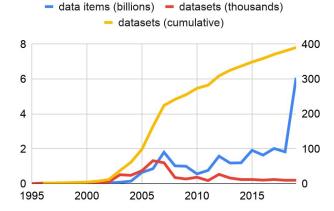


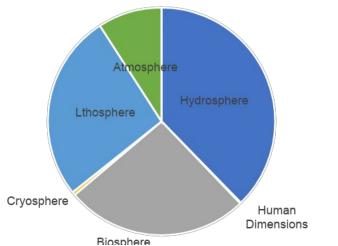
- Integral part of science: More than 250 European to international projects since 1995 (https://www.pangaea.de/projects)
- highly heterogeneous & dynamic
- multidisciplinary

Number of data sets ~402.000 Number of data items >19 Billion Data volume <3 PB Increase ~4% per year

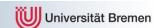
>15.000 registered users 12 – 15.000 unique sessions / month

#### growth













#### PANGAEA – Data/Metadata Dissemination





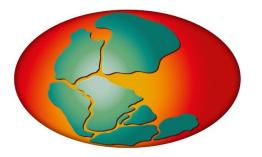






**WORLD DATA SYSTEM** 





#### ScienceDirect























### Data set types







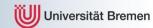


#### **Publishable entities**

- originality
  - o requires more than trivial or mechanical intellectual effort
  - applies in particular for derived works
  - data production, selection/filtering, QA, processing, contextualization in general justify a publication. Example: compilations of published data sets (data products)
- threshold of originality
  - o concept in copyright law that is used to assess whether a particular work can be copyrighted
- independant versus dependant publication
  - rules the way how the data are cited
- dependant
  - supplementary data (deprecated in PANGAEA)
  - single data entities as part of collections (PANGAEA publication series)







#### "Standard" data set

- Self-standing data set publication
- No dependencies (on other publications or datasets)
- Optional: relation to description of methodology or similar
- Full & simple citation with DOI name
- Single-file download possible

Example: https://doi.org/10.1594/PANGAEA.931365



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#### **Publication series**

- Childs are dependent
- Parent dataset should be cited only, childs have "In:" citation
- for homogeneous data collections (identical data templates)
- Can be "open": New child datasets added when available
- ZIP-based download possible

Example: <a href="https://doi.org/10.1594/PANGAEA.877578">https://doi.org/10.1594/PANGAEA.877578</a>







## **Bundled publication (1)**

- Childs are dependent
- Parent dataset should be cited only, childs have "In:" citation
- Clear dependencies between child data sets:
  - it does not make sense to publish children separately because the usability is limited
  - comprehensiveness of the data sets is only ensured by supplying all data sets as a package









# **Bundled publication (2)**

- Data sets are typically heterogeneous
- Description of the collection, in particular title, authors, abstract. It is needed for the usability of the children!
- Should never be an artificial construction!
- ZIP-based download possible









# **Editorial publication (1)**

- Heterogeneous data collection
- Childs stay independent:
  - childs may be part of other datasets
  - no notion of collection in citation of child
- An editorial compilation of data sets for a specific purpose









# **Editorial publication (2)**

- The added value of such collection should be mentioned in its abstract
- DOI for citation with "(eds.)": editors ≠ individual authors of datasets
- No download as single entity possible









# Bibliography (1)

- A simple list of (heterogeneous) data set / collections titles, which have been compiled for e.g. a specific topic, but without any additional editorial processes
- Childs stay independent:
  - childs may be part of other datasets
  - childs may be other bundled publications, publication series,...
  - no notion of collection in citation of child









# Bibliography (2)

- DOI is used solely as persistent identifier, but bibliography should not be cited as replacement for the data sets in third party works!
- Citation only if the process of compilation is to be referred
  - e.g., "a collection of Arctic CLoud Observations was put together by Ehrlich A et al. in <a href="https://doi.org/10.1594/PANGAEA.902603">https://doi.org/10.1594/PANGAEA.902603</a>"
- No download as single entity possible









Feedback?

#### Thank You!







