

# An introduction to PANGAEA



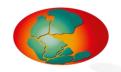




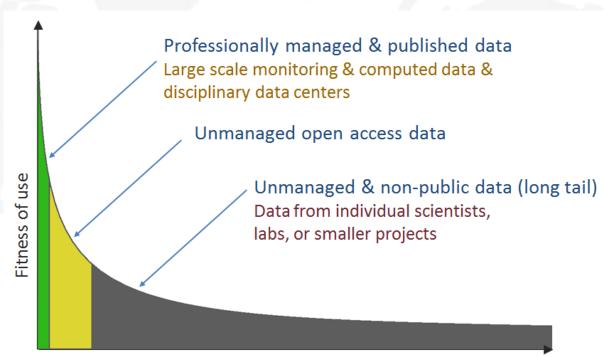


### Why publishing data?

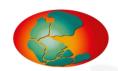




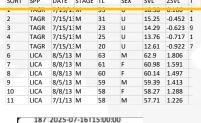
### Why publishing data?



Total volume of scientific data



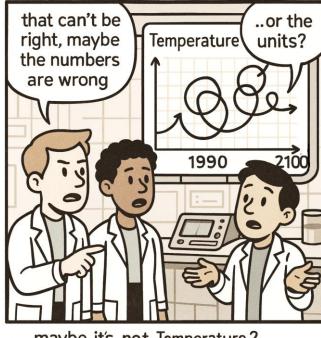
# Why publishing data?



187 2025-07-16T15:50:00 187 2025-07-17T14:10:00 187 2025-07-15T09:05:00 187 2027-07-15T09:30:00 187 2027-07-15T10:30:00 187 2027-07-15T15:00:00 187 2027-07-15T15:10:00 187 2027-07-15T15:00:00 187 2027-07-15T15:20:00 187 2025-07-16T10:35:00

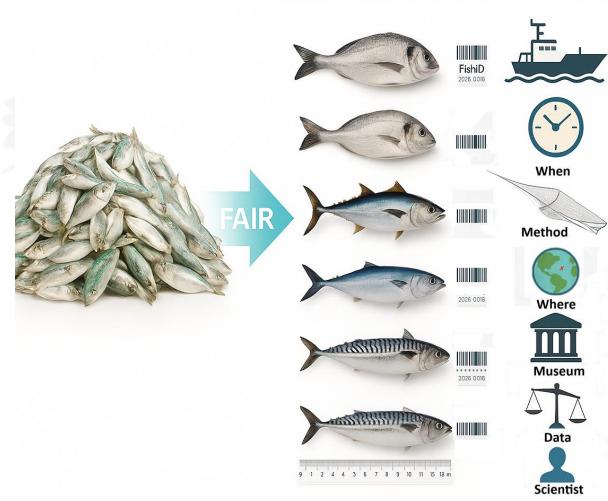
**Data Curation** matters!

#### SCIENTISTS IN THE FUTURE....



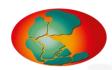
.... maybe it's not Temperature?

#### What? How? Where? When? Who? Stored? Data?



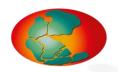






# Introducing ...





#### PANGAEA data publisher

- Information system for long-term archival and publication of scientific data
- Established ± 30 years ago
- Hosted by:





Accredited:







### PANGAEA working group

- Team consists of MARUM and AWI staff
- + Associated partner institutes
- + Associated research projects







ZMT **◎** 















#### Data variety

- multidisciplinary data
- heterogeneous data types:

tabular data images audiofiles videos netCDF

Label	Mineral	No.	SIO2 [%]	TIO2 [%]		Cr2O3 [%
W216 rim	Garnet	12	40.45	0.05	22 54	0.36
W216 core	Garnet	12	40.64	0.03	22 56	0.38
W218 rim	Garnet	12	39.97	0.21	22.10	0.51
W218 core	Garnet	12	40.14	0.07	22.28	0.59
W240	Garnet	12	40.65	0.08	22.18	0.33
W240	Garnet	12	39.95	0.05	21.98	0.38
W242A	Garnet	12	41.29	0.00	23.16	0.22
W242A	Garnet	12	41.04	0.06	23.27	0.14
W232 rim	Garnet	12	39.91	0.02	22.50	0.02
W232 core	Garnet	12	39.43	0.06	22.26	

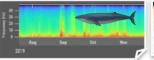
shapefiles, GeoTiffs, raster files proprietory formats (segy. LAS,..)















Code and genetic data can be linked in PANGAEA datasets



#### **Open Access and Long-term Data Archiving**

**FAIR Principles**: The platform ensures data integrity and usability for scientific work.

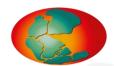
Persistent Citation with DOI: Every published dataset is assigned a permanent DOI.

Metadata Quality and Interoperability: Datasets come with comprehensive metadata descriptions and employ standardized exchange formats (e.g., INSPIRE, ISO 19115, Dublin Core, Darwin Core...)

Global Recognition/Certification: PANGAEA is accredited by major organizations e.g. CoreTrustSeal

**Curation and Community**: The editorial services are conducted by expert curators, benefiting individual researchers and scientific projects.

**Integration with Scientific Publishing**: PANGAEA is a recommended repository for numerous scientific journals, ensuring cross-referencing of datasets and articles.



### How to publish data with PANGAEA



PANGAEA website https://www.pangaea.de/



**Submission form** 



Submission accepted













#### Data access

- publishers and metric systems
- search engines
- community & project portals
- national & international research data infrastructures













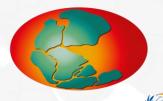






OCEAN BIODIVERSITY INFORMATION SYSTEM





























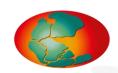


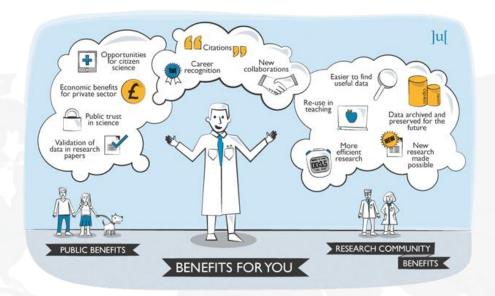


ieo Portal









## Thank you!

# Questions?

https://www.pangaea.de/submit/
Look at https://wiki.pangaea.de