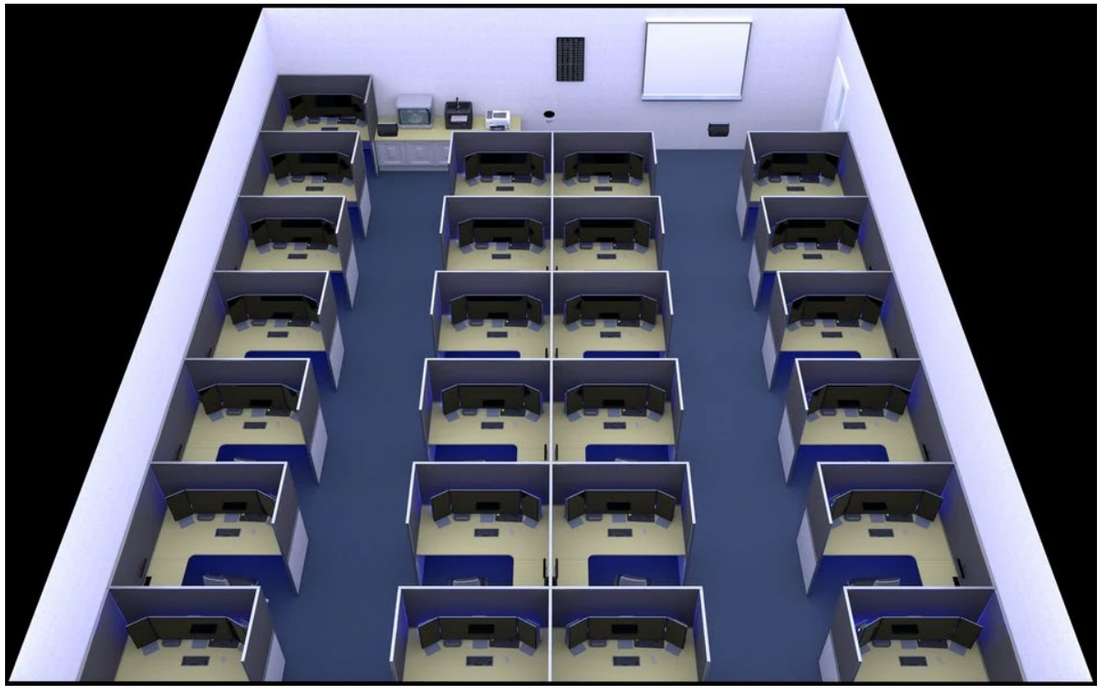
Workshop: Daten finden und nachnutzen



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FDM-Campus Hannover | 29.10.2026

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Dr. Samuel Mund https://orcid.org/0000-0003-0684-8945
Dr. Max J. Hassenstein https://orcid.org/0000-0002-5977-388X

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Agenda

- Datenquellen: wo finde ich Forschungsdaten – und wo eher nicht?
- Datennachnutzungscheckliste
- Aufgabe: Repository auswählen, Datensatz aussuchen, Checkliste anwenden
- Besprechung der Ergebnisse

Forschungszyklus

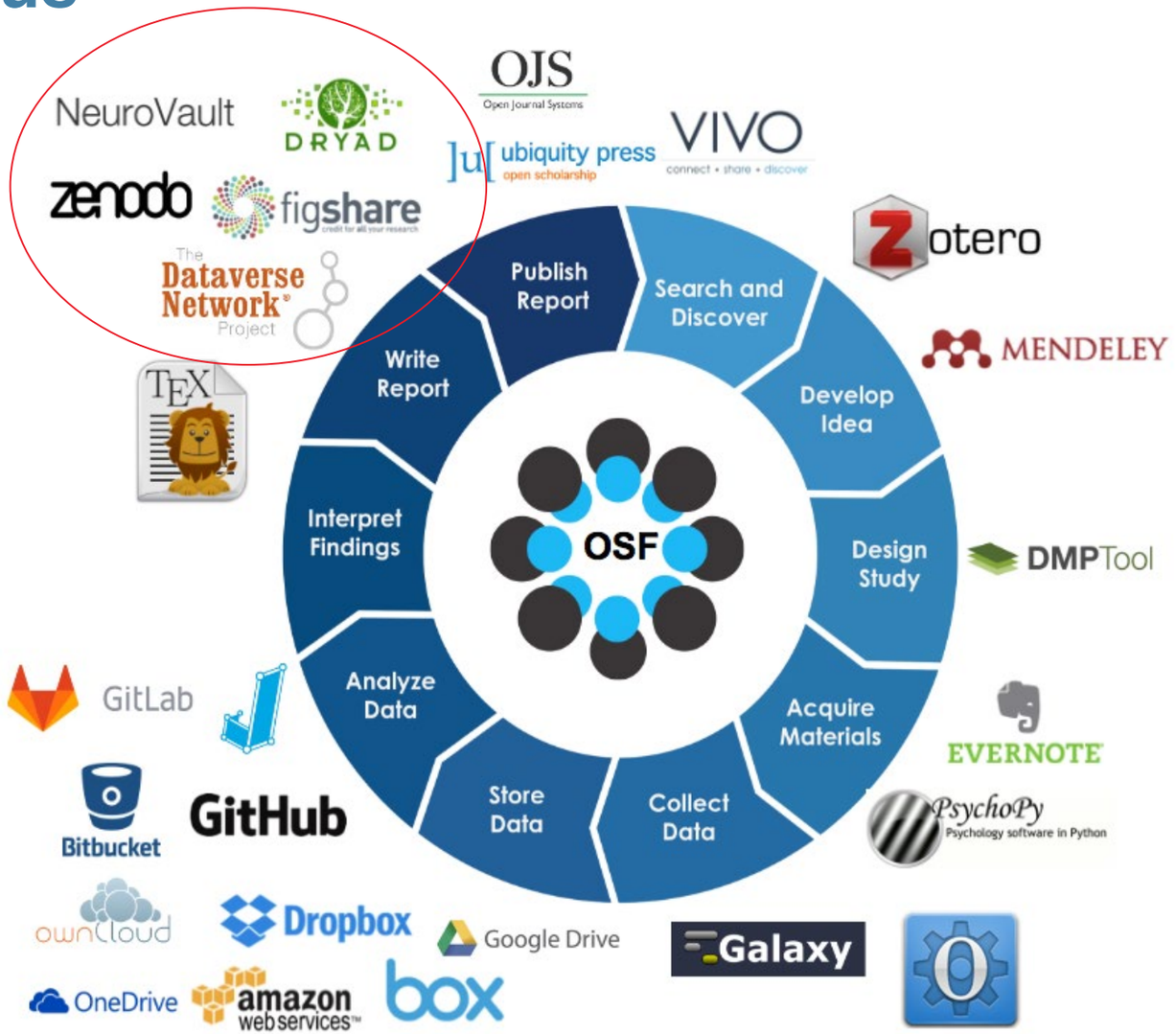
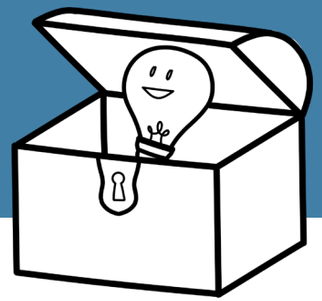


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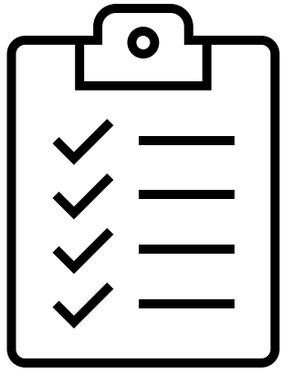
Was sind nochmal Forschungsdaten?



Nachnutzungscheckliste

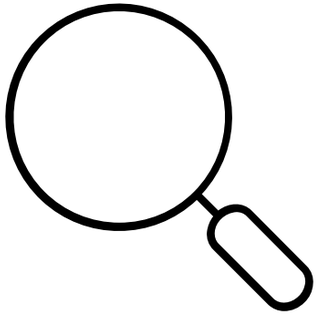


- ✓ Datenverfügbarkeit
- ✓ Repositorium
- ✓ Format & Zugang
- ✓ Dokumentation
- ✓ Version(en)?
- ✓ Recht & Ethik
- ✓ Lizenz(en)?
- ✓ Qualität
- ✓ Zitation
- ✓ Kontaktinformationen



Nachnutzungscheckliste

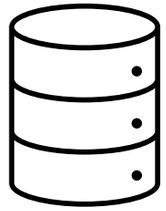
- **Datenverfügbarkeit**
  - Inwieweit sind die Daten **öffentlich zugänglich**?
  - **Wo** ist diese Angabe **verzeichnet**?
  - **Wie lange** sind die Daten **verfügbar**?



- **Repositorium**
  - Sind die Daten im Repositorium **tatsächlich zugänglich**?

Nachnutzungscheckliste

- **Formate**
  - In welchem **Format** liegen die Daten vor?
  - Mit welchen Programmen sind die Daten **kompatibel**?
  - Welche Software kann für den **Zugriff** verwendet werden?



- **Dokumentation**
  - **Sichten** und **verstehen**
    - Datenstruktur
    - Variablen
    - Metadaten

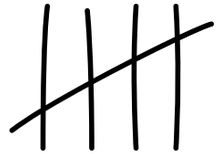


Nachnutzungscheckliste

- **Repositorium**
  - Sind die Daten im Repositorium **tatsächlich zugänglich**?



- **Versionierung**
  - Wie viele **Versionen** der Daten existieren?
  - Welche davon sind **relevant**?



Nachnutzungscheckliste

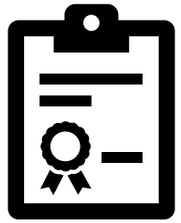
- **Recht & Ethik**
  - Inwieweit sind die Daten **rechtebewehrt**?
  - Welche **ethischen Maßgaben** und **Einschränkungen** existieren?

- **Lizensierung**
  - Welche **Maßgaben** werden in der **Lizenz** definiert?
  - Hinweis: **fehlende Lizenzangaben** bedeuten **nicht**, dass die Daten **frei von Rechten** sind
  - Im Zweifelsfall ist vom **Urheberrecht** auszugehen

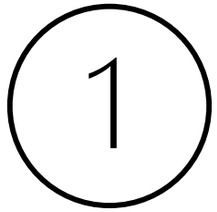


Nachnutzungscheckliste

- **Qualität**
  - Prüfen auf
    - Konsistenz
    - Genauigkeit
    - Vollständigkeit



- **Zitation**
  - Datensatz **korrekt zitieren**
  - Prüfen, ob **Zitationsregeln** genannt werden
  - Im Zweifelsfall einheitliche Zitation verwenden



Repositorien wählen und Daten aufsuchen

Aufgabe

1. Wahl eines Repositorys, ggf. Suche via https://www.re3data.org
2. Heraussuchen eines relevanten Datensatzes
3. Sofern möglich, Beschaffung des Datensatzes
4. Datensatz anhand der Checkliste prüfen (oberflächlich oder Fokus auf Teilbereiche).
5. Notieren wichtigen Aspekte für die Nachnutzung
6. Nennung eines positiven und eines ausbaufähigen Aspekts



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GESIS
Quantitative Sozialforschung
https://www.gesis.org/



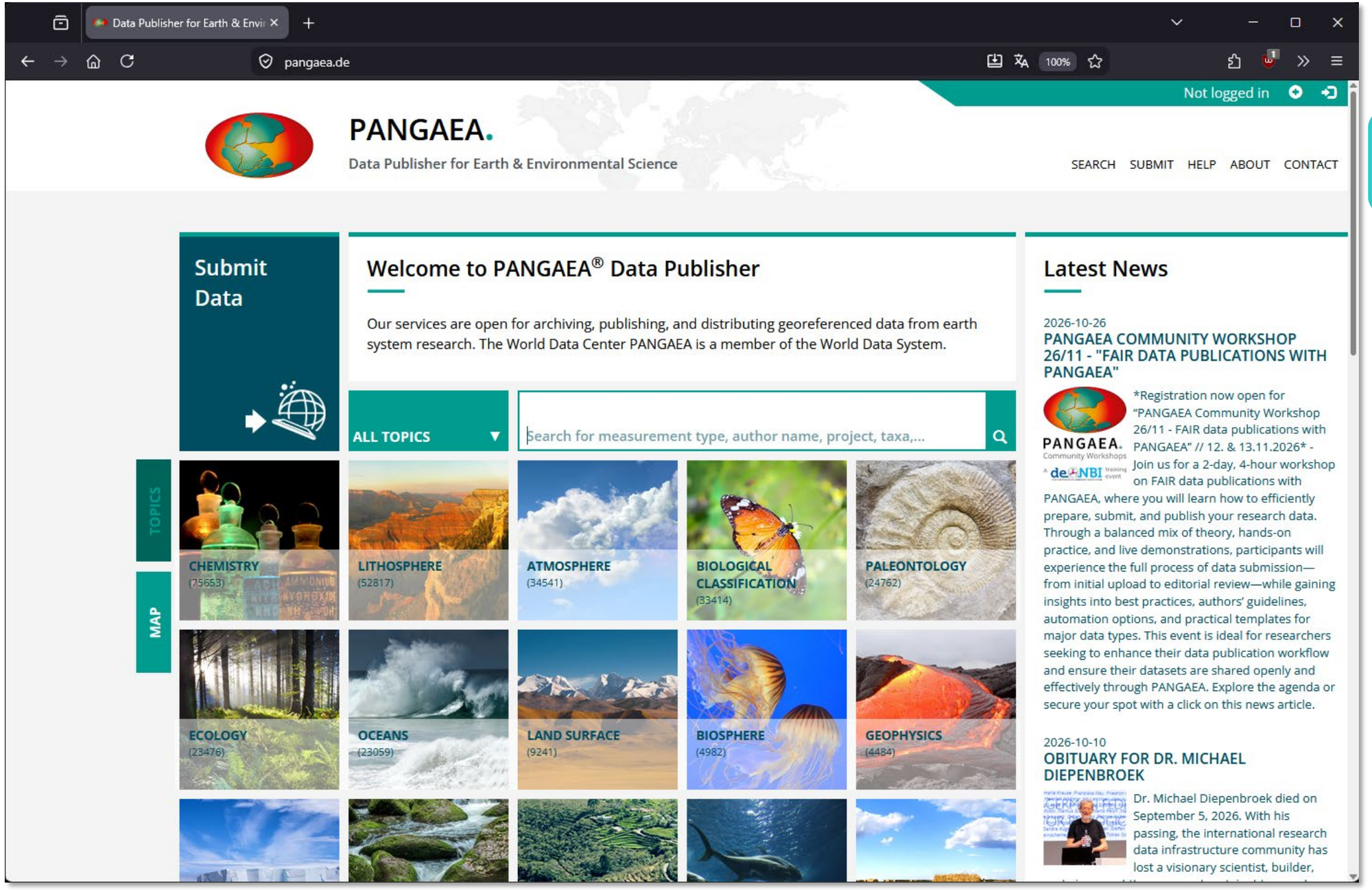
CHECKLISTE
https://s.gwdg.de/9E7vlW

Besprechung und freier Austausch

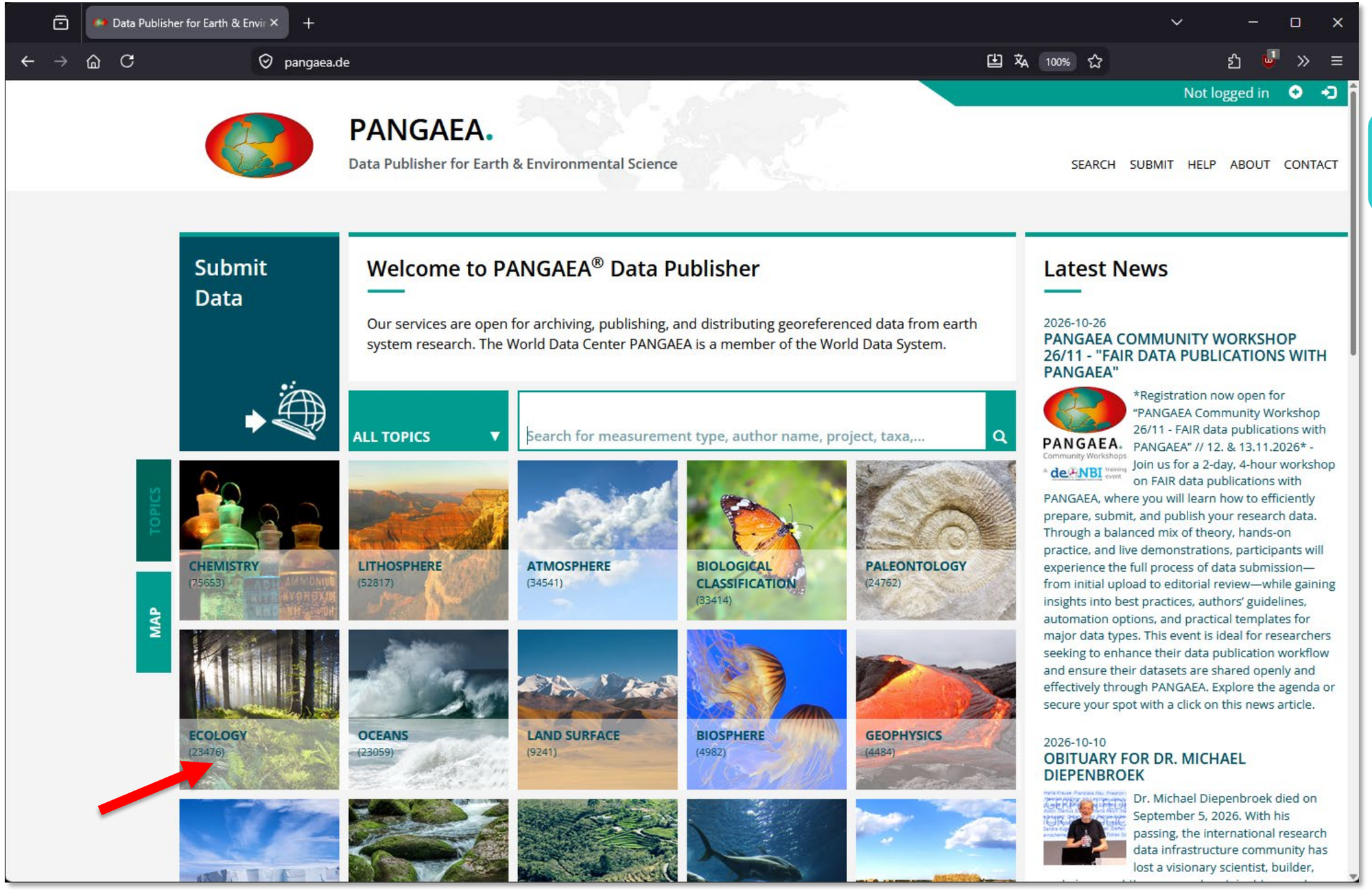
Aufgabe

- Welches Repositorium ausgewählt – und warum?
- Was war positiv, was war negativ – und warum?
- Welche nennenswert guten und schlechten Aspekte sind im Rahmen der Checklistennutzung aufgefallen?

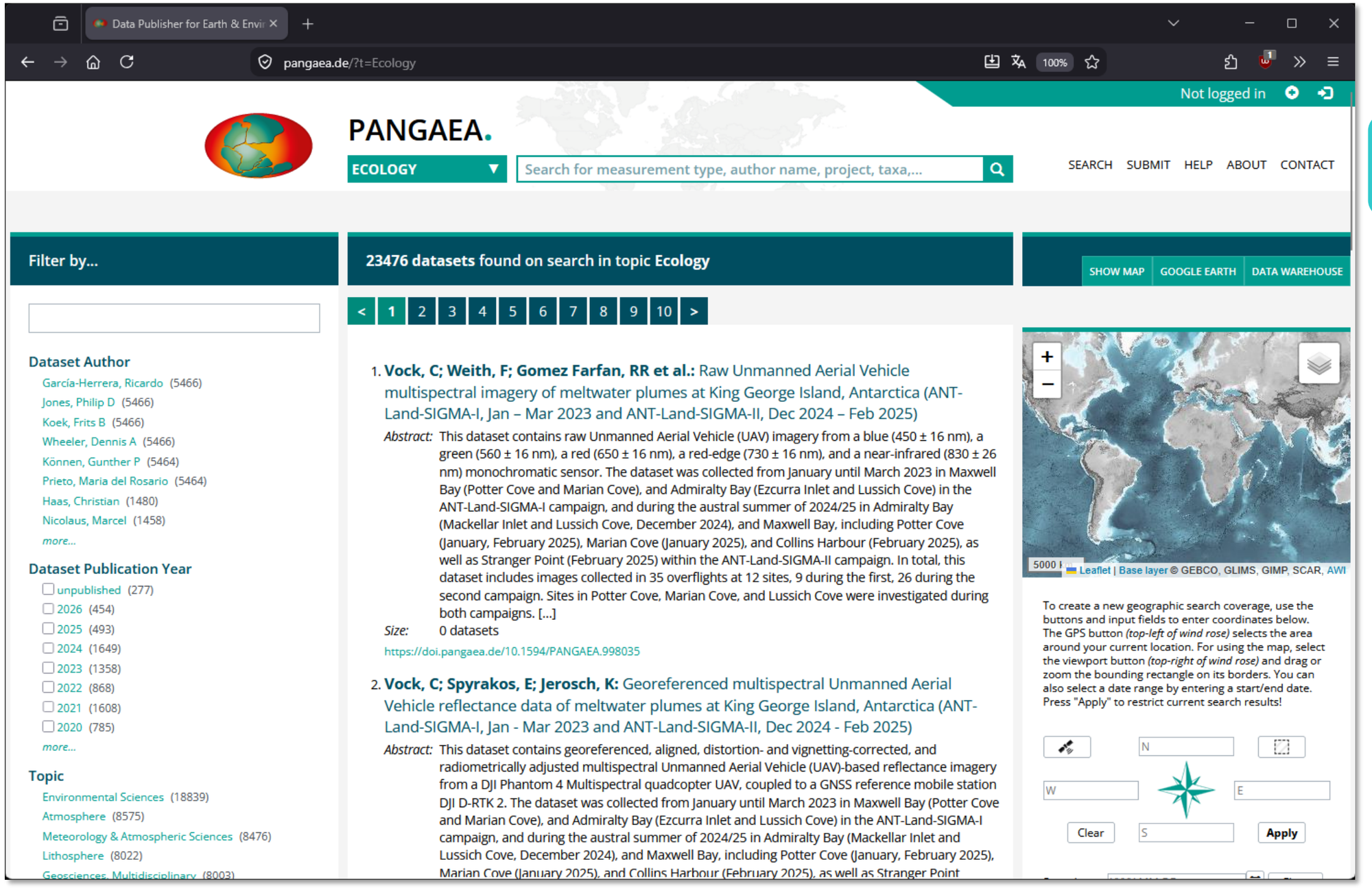
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OCEANS (23059)
LAND SURFACE (9241)
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OBITUARY FOR DR. MICHAEL DIEPENBROEK
Dr. Michael Diepenbroek died on September 5, 2026. With his passing, the international research data infrastructure community has lost a visionary scientist, builder,

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23476 datasets found on search in topic Ecology
SHOW MAP GOOGLE EARTH DATA WAREHOUSE
< 1 2 3 4 5 6 7 8 9 10 >
Dataset Author
García-Herrera, Ricardo (5466)
Jones, Philip D (5466)
Koek, Frits B (5466)
Wheeler, Dennis A (5466)
Können, Gunther P (5464)
Prieto, Maria del Rosario (5464)
Haas, Christian (1480)
Nicolaus, Marcel (1458)
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unpublished (277)
2026 (454)
2025 (493)
2024 (1649)
2023 (1358)
2022 (868)
2021 (1608)
2020 (785)
more...
Topic
Environmental Sciences (18839)
Atmosphere (8575)
Meteorology & Atmospheric Sciences (8476)
Lithosphere (8022)
Geosciences, Multidisciplinary (8003)
1. Vock, C; Weith, F; Gomez Farfan, RR et al.: Raw Unmanned Aerial Vehicle multispectral imagery of meltwater plumes at King George Island, Antarctica (ANT-Land-SIGMA-I, Jan – Mar 2023 and ANT-Land-SIGMA-II, Dec 2024 – Feb 2025)
Abstract: This dataset contains raw Unmanned Aerial Vehicle (UAV) imagery from a blue (450 ± 16 nm), a green (560 ± 16 nm), a red (650 ± 16 nm), a red-edge (730 ± 16 nm), and a near-infrared (830 ± 26 nm) monochromatic sensor. The dataset was collected from January until March 2023 in Maxwell Bay (Potter Cove and Marian Cove), and Admiralty Bay (Ezcurra Inlet and Lussich Cove) in the ANT-Land-SIGMA-I campaign, and during the austral summer of 2024/25 in Admiralty Bay (Mackellar Inlet and Lussich Cove, December 2024), and Maxwell Bay, including Potter Cove (January, February 2025), Marian Cove (January 2025), and Collins Harbour (February 2025), as well as Stranger Point (February 2025) within the ANT-Land-SIGMA-II campaign. In total, this dataset includes images collected in 35 overflights at 12 sites, 9 during the first, 26 during the second campaign. Sites in Potter Cove, Marian Cove, and Lussich Cove were investigated during both campaigns. [...]
Size: 0 datasets
https://doi.pangaea.de/10.1594/PANGAEA.998035
2. Vock, C; Spyrakos, E; Jerosch, K: Georeferenced multispectral Unmanned Aerial Vehicle reflectance data of meltwater plumes at King George Island, Antarctica (ANT-Land-SIGMA-I, Jan - Mar 2023 and ANT-Land-SIGMA-II, Dec 2024 - Feb 2025)
Abstract: This dataset contains georeferenced, aligned, distortion- and vignetting-corrected, and radiometrically adjusted multispectral Unmanned Aerial Vehicle (UAV)-based reflectance imagery from a DJI Phantom 4 Multispectral quadcopter UAV, coupled to a GNSS reference mobile station DJI D-RTK 2. The dataset was collected from January until March 2023 in Maxwell Bay (Potter Cove and Marian Cove), and Admiralty Bay (Ezcurra Inlet and Lussich Cove) in the ANT-Land-SIGMA-I campaign, and during the austral summer of 2024/25 in Admiralty Bay (Mackellar Inlet and Lussich Cove, December 2024), and Maxwell Bay, including Potter Cove (January, February 2025), Marian Cove (January 2025), and Collins Harbour (February 2025), as well as Stranger Point
5000 k
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1456 datasets found on search in topic Ecology with facet filters
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Europe
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Dataset Author
Fiskal, Annika (105)
Remmler, Paul (47)
Bouffaud, Marie-Lara (44)
Herrmann, Sylvie (44)
García-Herrera, Ricardo (38)
Jones, Philip D (38)
Koek, Frits B (38)
Können, Gunther P (38)
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2026 (79)
2025 (37)
2024 (40)
2023 (55)
2022 (34)
2021 (256)
2020 (81)
more...
Topic
Environmental Sciences (838)
Geosciences, Multidisciplinary (407)
Lithosphere (407)
Biological Classification (346)
Atmosphere (249)
1. Pérez-Cebrecos, M; Cano-Mato, I; Sañudo, S et al.: Behavioural, physiological, histopathological and reproductive responses of Ostrea edulis to a contaminant mixture representative of the Mar Menor lagoon
Abstract: This dataset contains behavioural, physiological, histopathological and reproductive measurements from juvenile and adult European flat oysters (Ostrea edulis) experimentally exposed for 72 h to increasing concentrations of a multi-contaminant mixture representative of pollution scenarios reported for the Mar Menor lagoon, southeast Spain. The experiment was conducted at the Laboratory of Animal Physiology and Ecotoxicology, University of the Basque Country (EHU), using juveniles originating from local Mar Menor breeding stock and adults obtained from Galicia, Spain. The contaminant mixture consisted of nonylphenol, citalopram, dibutyl phthalate, tributyl phosphate, lead and arsenic. Different concentration ranges were applied to juveniles and adults, with two exposure levels shared between life stages to allow comparison. Oysters were maintained under static, continuously aerated conditions and supplied with Isochrysis galbana during the 72-h exposure. [...]
Size: 6 datasets
https://doi.pangaea.de/10.1594/PANGAEA.997541
2. Steiner, N; Nilsen, AM; Gauci, C et al. (2026): Heat stress response of Saccharina latissima sporophytes of different age classes to gametophyte and sporophyte priming
Abstract: We assessed the heat tolerance of microscopic, juvenile and adult sporophytes under heat stress and in response to gametophyte or sporophyte priming in five experiments. Experiment 1: we primed Saccharina latissima gametophytes (Lofoten 2023; 15°C clonal culture; n = 7) for 3 weeks at 0°C, 10°C, and 20°C and induced gametogenesis at 10°C for 2 weeks. Resulting microscopic sporophytes were subjected to a 14-day heat stress treatment at 20°C, 21.5°C, and 23°C, where we counted the number of alive and dead sporophytes and calculated the survival rates. Experiment 2: sporophytes were cultivated after gametogenesis for an additional 4 weeks before we subjected them to a 14-day simulated heat wave (13°C for 3 days, 16°C for 2 days, 18°C for 2 days, 20°C, 21°C and 22°C for 1 day each, 23°C and 24°C for 4 days each, and recovery at 20°C
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Gronwald, F et al. (2025): The di

doi.pangaea.de/10.1594/PANGAEA.974526

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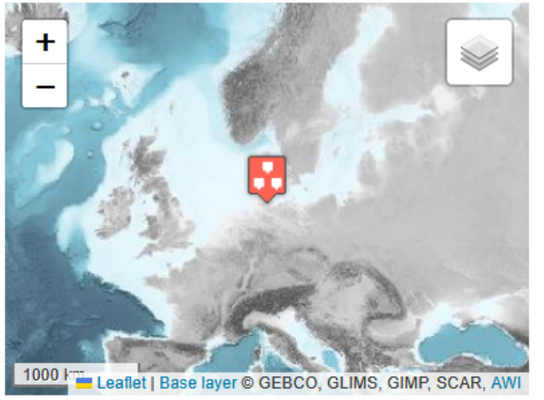
Citation:

Gronwald, Friederike; Bommarito, Claudia; Díaz-Morales, Dakeishla M; Manfrin, Alessandro; Martinez Reyes, Cindy; Nachev, Milen; Sures, Bernd; Weinberger, Florian (2025): The diet contribution and habitat selection of the common periwinkle Littorina littorea depending on infection with parasites and seasonality [dataset bundled publication]. *PANGAEA*, https://doi.org/10.1594/PANGAEA.974526

Always quote citation above when using data! You can download the citation in several formats below.

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Abstract:

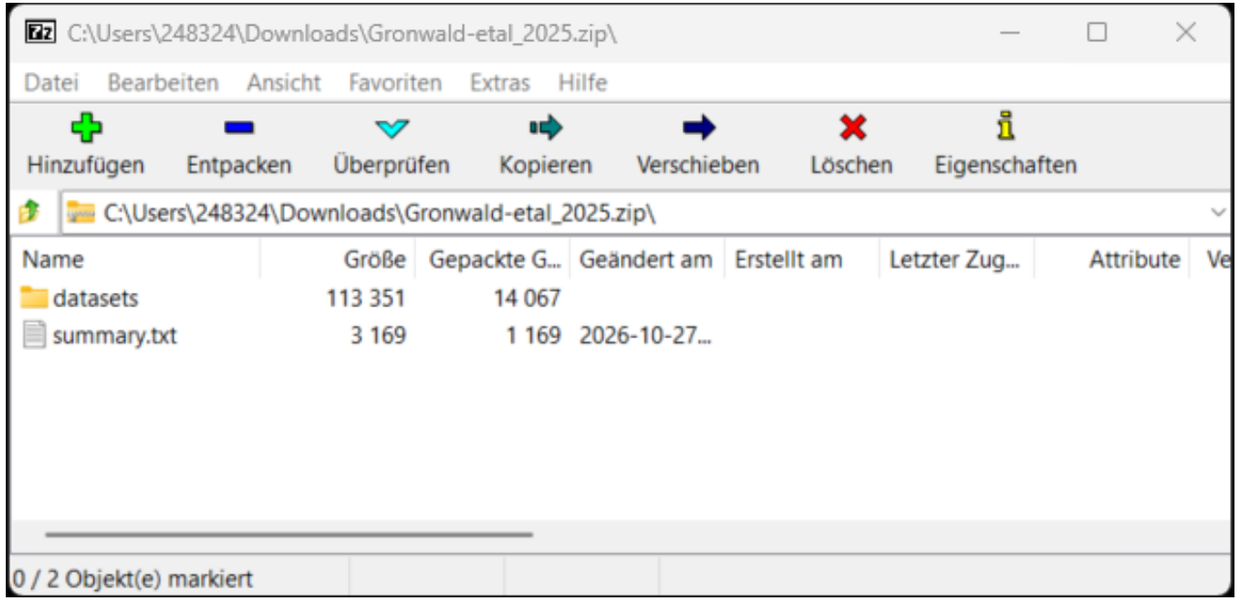
The common periwinkle Littorina littorea is an ecologically important grazer and serves as the first intermediate host for several trematode species in the Baltic Sea, especially for the fluke Cryptocotyle lingua. In this series of experiments and analyses, we tested whether the food sources contributing to the diet and the habitat selection differ depending on the infection status of the periwinkle and the season. (1) A spatial pattern analysis was conducted to investigate the habitat composition and availability of food sources at the study site Möltenort, Kiel Bight (54.37°N, 10.19°E), (2) the habitat choice of the periwinkle was observed in-situ by a mark and recapture experiment, and (3) the composition of the diet of L. littorea (based on stable isotope composition of carbon and nitrogen isotopes) was analysed. All experiments were conducted in spring, summer and autumn.

Keyword(s): Baltic Sea; Littorina littorea; parasite-host-system; Seasonality; stabe isotopes

Supplement to: **Gronwald, Friederike; Bommarito, Claudia; Díaz-Morales, Dakeishla M; Manfrin, Alessandro; Reyes, Cindy Martinez; Nachev, Milen; Sures, Bernd; Weinberger, Florian (2025):** The effects of seasonality and parasitism on diet and habitat selection in the common periwinkle. *Oikos*, e11359, https://doi.org/10.1002/oik.11359

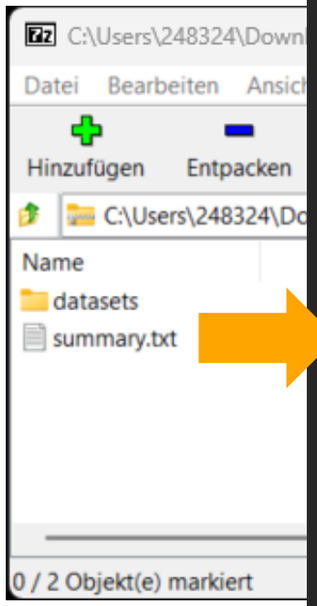
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summary.txt

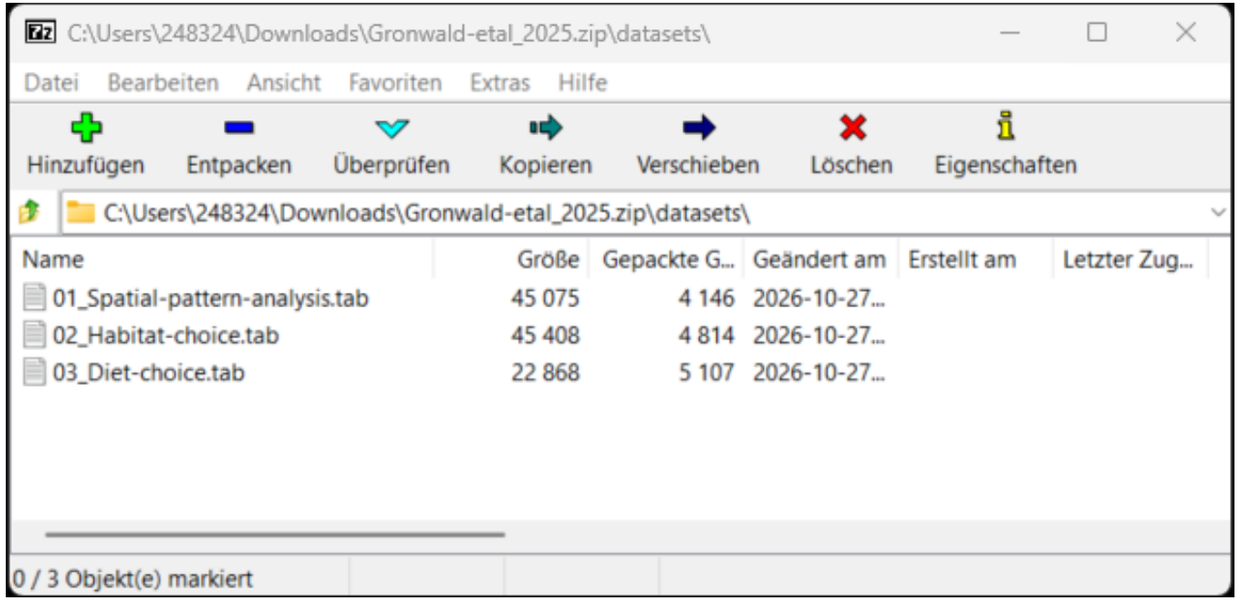
Datei Bearbeiten Ansicht

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Sures, Bernd; Weinberger, Florian (2025): The diet contribution and habitat selection of the common periwinkle Littorina littorea depending on
infection with parasites and seasonality [dataset bundled publication]. PANGAEA, https://doi.org/10.1594/PANGAEA.974526
Abstract:       The common periwinkle Littorina littorea is an ecologically important grazer and serves as the first intermediate host for several
trematode species in the Baltic Sea, especially for the fluke Cryptocotyle lingua. In this series of experiments and analyses, we tested whether the
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Supplement to:  Gronwald, Friederike; Bommarito, Claudia; Díaz-Morales, Dakeishla M; Manfrin, Alessandro; Reyes, Cindy Martinez; Nachev, Milen;
Sures, Bernd; Weinberger, Florian (2025): The effects of seasonality and parasitism on diet and habitat selection in the common periwinkle. Oikos,
e11359, https://doi.org/10.1002/oik.11359
Coverage:       LATITUDE: 54.370000 * LONGITUDE: 10.190000
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Status: Curation Level: Enhanced curation (URI: https://wiki.pangaea.de/wiki/Curation_levels)
Size:   3 datasets
*/
/* TABULAR SUMMARY OF DATASETS LISTED IN THIS COLLECTION: */
Filename        Citation of child dataset
01_Spatial-pattern-analysis.tab Gronwald, Friederike; Bommarito, Claudia; Díaz-Morales, Dakeishla M; Manfrin, Alessandro; Martinez Reyes, Cindy;
Nachev, Milen; Sures, Bernd; Weinberger, Florian (2025): Spatial pattern analysis for habitat composition and availability of food sources at
Möltenort, Kiel Bight. https://doi.org/10.1594/PANGAEA.974509
02_Habitat-choice.tab   Gronwald, Friederike; Bommarito, Claudia; Díaz-Morales, Dakeishla M; Manfrin, Alessandro; Martinez Reyes, Cindy; Nachev,
Milen; Sures, Bernd; Weinberger, Florian (2025): Habitat choice of the common periwinkle Littorina littorea depending on infection status and
seasonality. https://doi.org/10.1594/PANGAEA.974524
03_Diet-choice.tab      Gronwald, Friederike; Bommarito, Claudia; Díaz-Morales, Dakeishla M; Manfrin, Alessandro; Martinez Reyes, Cindy; Nachev,
Milen; Sures, Bernd; Weinberger, Florian (2025): Stable isotope analysis of the common periwinkle Littorina littorea depending on infection status
and seasonality. https://doi.org/10.1594/PANGAEA.974525
```

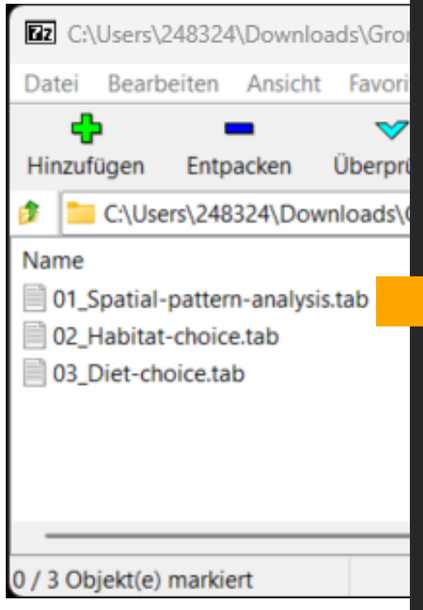
Ze 1, Sp 1 | 3.160 Zeichen | Unformatierter Text | 100% | Unix (LF) | UTF-8

https://doi.pangaea.de/10.1594/PANGAEA.974526

Beispiel



https://doi.pangaea.de/10.1594/PANGAEA.974526



01_Spatial-pattern-analysis.tab | 02_Habitat-choice.tab | 03_Diet-choice.tab

Datei Bearbeiten Ansicht

```
/* DATA DESCRIPTION:
Citation:       Gronwald, Friederike; Bommarito, Claudia; Díaz-Morales, Dakeishla M; Manfrin, Alessandro; Martinez Reyes, Cindy; Nachev, Milen; Sures,
Bernd; Weinberger, Florian (2025): Spatial pattern analysis for habitat composition and availability of food sources at Möltenort, Kiel Bight [dataset].
PANGAEA, https://doi.org/10.1594/PANGAEA.974509,
        In: Gronwald, F et al. (2025): The diet contribution and habitat selection of the common periwinkle Littorina littorea depending on infection with
parasites and seasonality [dataset bundled publication]. PANGAEA, https://doi.org/10.1594/PANGAEA.974526
Abstract:       The habitat at Möltenort was characterised with a 24 cm x 24 cm metal frame, which was thrown parallel to the coast 30 times within the 100
m transect. Coverage of Amphibalanus spp., Fucus vesiculosus, Gracilaria vermiculophylla, Mytilus spp., sand, stone, Ulva sp., and other ("other"
indicating any category not mentioned in the list), was measured in 7 different percentage coverage groups (0, 1-5, 6-10, 11-20, 21-50, 51-75, or 76-100).
Measurements were taken in spring, summer and autumn.
Keyword(s):     Baltic Sea; Littorina littorea; parasite-host-system; Seasonality; stabe isotopes
Coverage:       LATITUDE: 54.370000 * LONGITUDE: 10.190000
Event(s):       Kiel_Bight_Moeltenort * LATITUDE: 54.370000 * LONGITUDE: 10.190000 * METHOD/DEVICE: Multiple investigations (MULT)
Parameter(s):   Date/time start (Date/time start) * PI: Gronwald, Friederike (https://orcid.org/0009-0000-6964-0522, fgronwald@geomar.de)
        Date/time end (Date/time end) * PI: Gronwald, Friederike (https://orcid.org/0009-0000-6964-0522, fgronwald@geomar.de)
        Temperature, water [°C] (Temp) * PI: Gronwald, Friederike (https://orcid.org/0009-0000-6964-0522, fgronwald@geomar.de)
        Salinity (Sal) * PI: Gronwald, Friederike (https://orcid.org/0009-0000-6964-0522, fgronwald@geomar.de)
        Season (Season) * PI: Gronwald, Friederike (https://orcid.org/0009-0000-6964-0522, fgronwald@geomar.de)
        Sample ID (Sample ID) * PI: Gronwald, Friederike (https://orcid.org/0009-0000-6964-0522, fgronwald@geomar.de)
        Type (Type) * PI: Gronwald, Friederike (https://orcid.org/0009-0000-6964-0522, fgronwald@geomar.de) * COMMENT: Species or substrate
        Group (Group) * PI: Gronwald, Friederike (https://orcid.org/0009-0000-6964-0522, fgronwald@geomar.de) * COMMENT: Percent coverage group
License:        Creative Commons Attribution 4.0 International (CC-BY-4.0) (URI: https://creativecommons.org/licenses/by/4.0/)
Status: Curation Level: Enhanced curation (URI: https://wiki.pangaea.de/wiki/Curation_levels)
Size:   5760 data points
*/
Date/time start Date/time end   Temp [°C]       Sal     Season  Sample ID       Type    Group
2022-04-21      2022-04-29      17.9    15.5    spring  F1      Amphibalanus spp.       0
2022-04-21      2022-04-29      17.9    15.5    spring  F1      Fucus vesiculosus       0
2022-04-21      2022-04-29      17.9    15.5    spring  F1      Gracilaria vermiculophylla      0
2022-04-21      2022-04-29      17.9    15.5    spring  F1      Mytilus spp.    1-5
2022-04-21      2022-04-29      17.9    15.5    spring  F1      Sand    1-5
2022-04-21      2022-04-29      17.9    15.5    spring  F1      Stone   76-100
2022-04-21      2022-04-29      17.9    15.5    spring  F1      Ulva sp.        6-10
2022-04-21      2022-04-29      17.9    15.5    spring  F1      Other   0
2022-04-21      2022-04-29      17.9    15.5    spring  F2      Amphibalanus spp.       0
2022-04-21      2022-04-29      17.9    15.5    spring  F2      Fucus vesiculosus       51-75
2022-04-21      2022-04-29      17.9    15.5    spring  F2      Gracilaria vermiculophylla      0
2022-04-21      2022-04-29      17.9    15.5    spring  F2      Mytilus spp.    1-5
2022-04-21      2022-04-29      17.9    15.5    spring  F2      Sand    0
```

Ze 1, Sp 1 | 45.070 Zeichen | Unformatierter Text | 110% | Unix (LF) | UTF-8

Nachnutzungscheckliste: Format & Zugang

Beispiel

- In welchem Format liegen die Daten vor?
  - ZIP-Download
  - Entpackt: Textdateien (.txt, .tab)

- Mit welchen Programmen sind die Daten kompatibel?
  - Textverarbeitungstools, z. B. Editor, Notepad++
  - Analysesoftware, z. B. R, Python, SPSS

- Welche Software kann für den Zugriff verwendet werden?
  - Alle gängigen Internetbrowser (HTTP)
  - Python (pangeapy) oder R (pangear) [1]

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1. https://wiki.pangaea.de/wiki/Data_Access_and_Reuse

Nachnutzungscheckliste: Dokumentation

Beispiel

- Datenstruktur
  - ➢ Readme-File auf oberster Ebene
  - ➢ Drei Datensätze in einem Ordner (*datasets*)

- Variablen (*01_Spatial-pattern-analysis.tab)*
  - *Date/time start*
  - *Date/time end*
  - *Temp [°C]*
  - *Sal*
  - *Season*
  - *Sample ID*

- Metadaten
  - ➢ Readme-File
  - ➢ Kein Datenbeschreibungsverzeichnis (data dictionary)
  - ➢ Geringfügige Metadaten in den Datentabellen (u. a.

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Nachnutzungscheckliste: Lizenz(en)

Beispiel

- Welche Maßgaben werden in der Lizenz definiert?
  - ➢ Creative Commons Attribution 4.0 International (CC-BY-4.0)

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Veranstaltungshinweise

~~**03. Sep.**~~	~~Daten publizieren I – Repositorien~~	~~Christine Jung-Dahlke (TIB)~~
~~**17. Sep.**~~	~~Daten publizieren II – Zenodo~~	~~Samuel Mund / Sebastian Lehmann~~
~~**01. Okt.**~~	~~On-/Offboarding~~	~~Max Hassenstein / Erik Tute~~
~~**15. Okt.**~~	~~Daten publizieren III – Lizenzen~~	~~Sebastian Lehmann / Samuel Mund / Max J. Hassenstein~~
~~**29. Okt.**~~	~~Workshop: Daten nachnutzen~~	~~Max J. Hassenstein / Samuel Mund~~
12. Nov.	***Rechtsaspekte* – Datensparsamkeit und Gute Wissenschaftliche Praxis**	Max J. Hassenstein / Aljoscha Erlebach
19. Nov. ~~26. Nov.~~	*Rechtsaspekte* – Datenschutz und Persönlichkeitsrecht	Samuel Mund / Aljoscha Erlebach
03. Dez. ~~10. Dez.~~	*Rechtsaspekte* – Urheberrecht und Verwertungsrechte	Doreen Rocholl (UOS) / Aljoscha Erlebach
24. Dez.	***Weihnachtspause***	

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hmtmh Hochschule für Musik Theater und Medien Hannover