PANGAEA Community Workshop 25/05 - "Finding and retrieving data from PANGAEA"

Report of Contributions

Contribution ID: **2**   Type: **not specified**

Intro PANGAEA programmable interfaces

Friday 9 May 2025 10:30 (20 minutes)

Kicking off Day 2 of the workshop, this session explores PANGAEA's innovative approaches to programmatic data and metadata access, aligned with the FAIR principles. The presentation highlights machine-actionable interfaces that leverage HTTP interactions and Signposting standards, enabling seamless integration of PANGAEA's structured metadata (in diverse formats) and data matrices into external workflows. Attendees will also learn how to navigate access to restricted datasets (e.g., under embargo) via browser-based authentication, ensuring secure yet flexible data sharing for authorized users. Bridging Day 1's focus on data discovery, this talk emphasizes practical tools for efficient, automated, and web standard compliant data reuse—empowering researchers and institutions to maximize the value of shared research outputs. Not the easiest meal on the menu, but one of the keys to understanding how to interact with PANGAEA data.

Presenter: Mr SCHINDLER, Uwe (PANGAEA Data Publisher)

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Contribution ID: **3** Type: **not specified**

Q&A Block 1

Friday 9 May 2025 10:50 (5 minutes)

Your questions are welcome and addressed with care here.

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Contribution ID: **4**   Type: **not specified**

Scripted data access - Introducing pangaear

Friday 9 May 2025 10:55 (10 minutes)

Continuing the workshop's exploration of FAIR-driven data workflows, this dual session introduces user-friendly tools for integrating PANGAEA into modern data science pipelines. For researchers less familiar with technical concepts like HTTP content negotiation or Signposting, PANGAEA's dedicated Python module (pangaeapy) and the third-party R package pangaear (developed by OpenSci) offer simplified, code-based solutions.

The series of sessions begins with an overview of common analytical tasks—from data retrieval to preprocessing—demonstrating how pangaear streamlines R-based workflows. ⋯

Presenter: RANSBY, Daniela (AWI)

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Contribution ID: **5**
Type: **not specified**

Scripted data access - Introducing pangaeapy

Friday 9 May 2025 11:05 (15 minutes)

The focus then shifts to PANGAEA's native Python module, pangaeapy, which is introduced in more detail during this session

Presenter: RANSBY, Daniela (AWI)

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Contribution ID: **6** Type: **not specified**

Q&A Block 2

Friday 9 May 2025 11:20 (5 minutes)

Your questions are, again, very welcome and have room for a good answer.

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Contribution ID: **7**   Type: **not specified**

Scripted data access - Pangaeapy practical

Friday 9 May 2025 11:35 (45 minutes)

And finally, our speaker dives deeper into pangaeapy's advanced functionalities, showcasing its versatility in automating complex data transformations, enhancing reproducibility, and unlocking PANGAEA's full potential within Python ecosystems.

By bridging technical barriers with open-source tools, this session empowers researchers to harness PANGAEA's rich datasets efficiently, fostering FAIR-aligned, cross-disciplinary collaboration.

Presenter: RIEMANN-CAMPE, Kathrin

Session Classification: Access and retrieve data from PANGAEA

Contribution ID: **8** Type: **not specified**

Q&A Block 3 and Outro

Friday 9 May 2025 12:20 (10 minutes)

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Contribution ID: **9**   Type: **not specified**

Welcome

Thursday 8 May 2025 10:30 (5 minutes)

Presenter: MOELLER, Lars (PANGAEA Data Publisher)

Session Classification: Find data on PANGAEA

Contribution ID: **10**   Type: **not specified**

Brief introduction to PANGAEA

Thursday 8 May 2025 10:35 (10 minutes)

Presenter: MOELLER, Lars (PANGAEA Data Publisher)

Session Classification: Find data on PANGAEA

Contribution ID: **11** Type: **not specified**

PANGAEA search challenge

Thursday 8 May 2025 10:45 (45 minutes)

In this interactive exercise, we want to take the participants on an exciting journey into the world of data published on PANGAEA. In small groups, we will explore the basic principles and diverse possibilities of data research on PANGAEA in search of answers to exciting earth and environmental science questions of our time.

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Contribution ID: **12**   Type: **not specified**

Search exercise reflections and discussion

Thursday 8 May 2025 11:40 (20 minutes)

In this session, we'll compile the outcomes of the group exercise and engage in a collective discussion to share insights, challenges, and discoveries, fostering a deeper understanding of effective data search strategies.

Session Classification: Find data on PANGAEA

Contribution ID: **13** 	Type: **not specified**

Advanced search approaches

Thursday 8 May 2025 12:00 (20 minutes)

In this talk, Kathrin will present advanced search methods on PANGAEA, helping you achieve more effective and targeted results, thereby concluding the excursion into the PANGAEA search capabilities.

Presenter: RIEMANN-CAMPE, Kathrin

Session Classification: Find data on PANGAEA

Contribution ID: **14** Type: **not specified**

Q&A Block and Outro

Thursday 8 May 2025 12:20 (10 minutes)

Here we have some room for a few final questions and discussions.

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