# Publishing research data via GFZ Data Services

Florian Ott and the team at Section 5.1: Library and Information Services
- Library Shorts — 2024-10-18





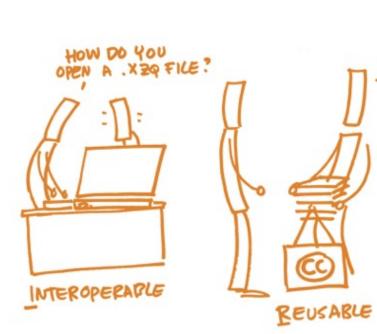
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## A few words on FAIR







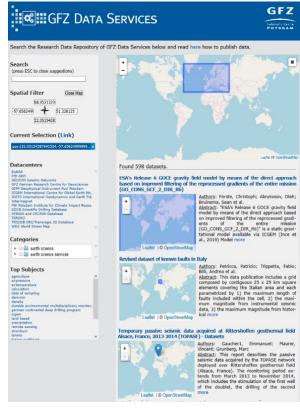
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Image from: https://book.fosteropenscience.eu/



News

- Domain repository for the Geosciences since 2006
- DOIs for Data and software
- Data: real-time data streams, tables, maps, model data, ...
- Online metadata editor
- Data description templates
- Data curation by domain scientists



### https://dataservices.gfz-potsdam.de

# FAIR data

- International metadata standards (human & machine readable)
- Controlled vocabularies for "rich" metadata

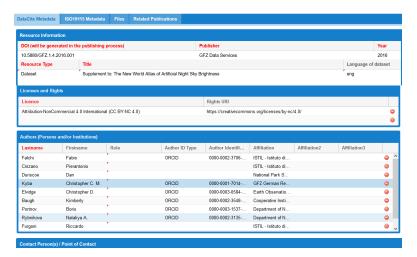


- Open Licences for data and software
- OAI-PMH interface
- schema.org → Google Dataset Search



#### Tools

## Supporting tools for data publications



#### **Online Metadata Editor**

 Converts information from researchers to machine-readable metadata in international standards

https://dataservices.gfz-potsdam.de/panmetaworks/metaedit/

Paleosol-derived data used for the reconstruction of environmental conditions during the Holocene in the upper part of the Kali Gandaki valley, Central Nepal

(http://doi.org/10.5880/GFZ.4.6.2019.001)

Johanna Menges<sup>‡</sup>, Niels Hovius<sup>‡</sup>, Christoff Andermann<sup>‡</sup>, Michael Dietze<sup>‡</sup>, Charlie Swoboda<sup>‡</sup>, N Cook<sup>‡</sup>, Basanta Adhikari<sup>‡</sup>, Andrea Vieth-Hillebrand<sup>‡</sup>, Stephane Bonnet<sup>‡</sup>, Tony Reimann<sup>‡</sup>, Ar Koutsodendris<sup>‡</sup>, Dirk Sachse<sup>‡</sup>

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1. Licence

2. Citation

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When using the data please cite:

Menges, J.; Hovius, N.; Andermann, C.; Dietze, M.; Swoboda, C.; Cook, K.; Adhikari, B.; Vieth-Hilleb A.; Bonnet, S.; Reimann, T.; K.; Andreas; Sachse, D. (2019): Paleosol-derived data used for the reconstruction of Holocene environmental conditions during in the upper Kali Gandaki valley, Cent Nepal. GFZ Data Services. https://doi.org/10.5880/GFZ.4.6.2019.001

The data are supplementary to

Menges, J., Hovius, N., Andermann, C., Dietze, M., Swoboda, C., Cook, K. L., ... Sachse, D. (2019). Late

#### **Suggested Table of Contents**

- 1. Licence
- 2. Citation
- 3. Data Description
- · Sampling method
- · Analytical procedure
- · Data processing
- 4. File description
- File inventory
- File naming convention
- Description of data tables
- 5. References

#### **Data Description Templates**

- Standardised technical data description
- Available in commented and usable versions
   https://gfzpublic.gfz-potsdam.de/pubman/item/item 5007103



- Guidance on preparing and describing data; description the data/software publication workflow
- Special services:

Intro

**Timing of data publication**: For most supplementary data to research articles, the publication of the data will be timely correlated with the publication of the article.

**GFZ Data Services** 

Tools

**Review Links**: Review links show a preview of the future DOI Landing Page with the correct citation (the DOI is already reserved and will not change); for restricted data access during the review period of articles

Quick Start Guide for Data Publications at with GFZ Data Services

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Metadata Editor

**Data Submission Workflow** 

**Data Files Instructions** 

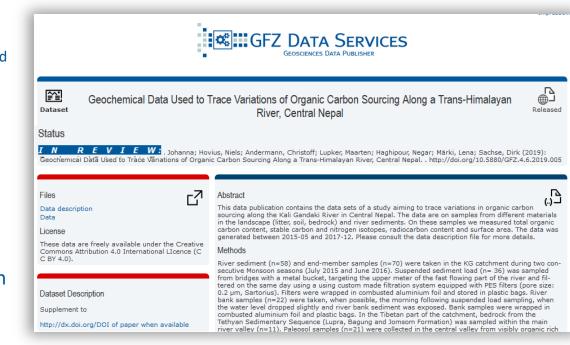
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# "Data in Review" links

- Link: http://pmd.gfzpotsdam.de/panmetaworks/ review/d5e90191aeefd0632ed35813dd442e186ad 1187ad892f3d3ff968bd4716eb472/
- Allows access to still unregistered data (for papr review purposes)
- DOI is reserved and citable
- Data can still be changed
- DOI registration when paper is accepted
- Please inform GFZ Data Services when a paper is accepted
- Please send the DOI of the paper to GFZ Data Services





News

Tools

Established RD-Policy at GFZ Potsdam

**GFZ Data Services** 

Part of NFDI4Earth (NFDI Consortium Earth System Sciences)

Various initiatives tackle new reputation/recognition mechanisms



Intro





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