



Workshop

Publication of Research Data

associated with peer-reviewed research articles.

Andreas Hübner

Deutsches GeoForschungsZentrum GFZ

Inke Achterberg

Georg-August-Universität Göttingen



Fachinformationsdienst
Geowissenschaften der festen Erde

Agenda

Introduction

Why publish research data?

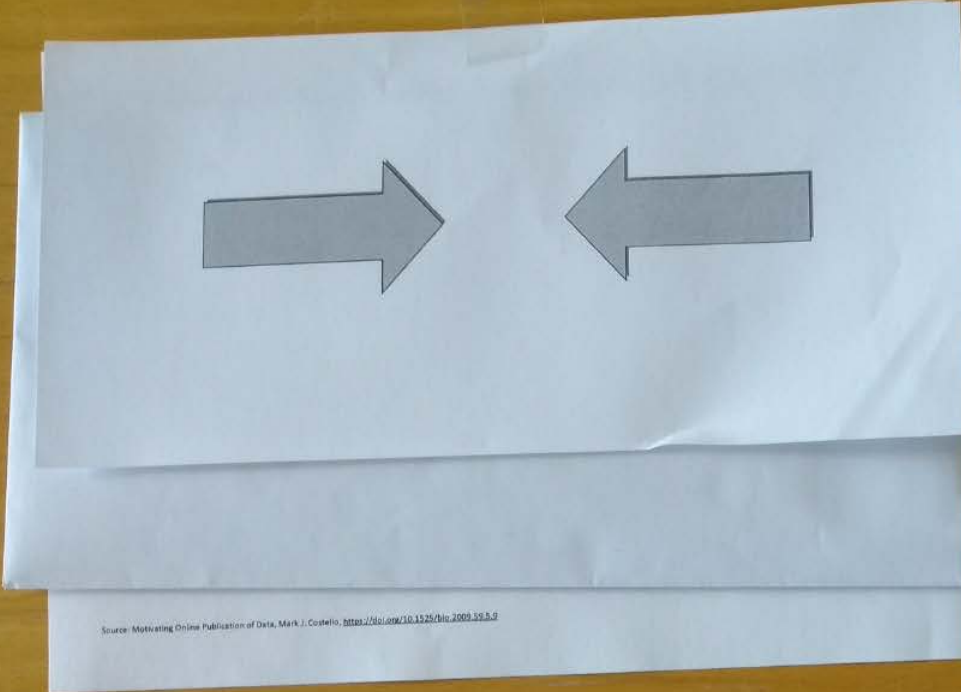
How to publish?

5 min Break / 3 min video clip

Licences

GFZ Data Services: Metadata Editor

Wrap up



Source: Motivating Online Publication of Data, Mark J. Cordeiro, <https://doi.org/10.1525/bit.2009.39.5.9>





Feedback to the workshop "Publication of research data related to scientific articles in the geosciences", GeoBonn 2018

What do you think about the <u>Workshop in general</u> ?	very good	good	So, so	less good	not good
Selection of contents					
Complexity of the content					
Useful for your practical work					
Interest in the topic					
Excercises					
What do you think about the Workshoptopic " <u>Why publish research data</u> "?	very good	good	So, so	less good	not good
Selection of contents					
Complexity of the content					
Useful for your practical work					
Interest in the topic					
What do you think about the Workshoptopic " <u>How to publish</u> "?	very good	good	So, so	less good	not good
Selection of contents					

What do you think about the Workshop topic " Licences "?	very good	good	So, so	less good	not good
Selection of contents					
Complexity of the content					
Useful for your practical work					
Interest in the topic					
What do you think about the Workshop topic " Metadata Editor "?	very good	good	So, so	less good	not good
Selection of contents					
Complexity of the content					
Useful for your practical work					
Interest in the topic					
Your comments					

Participants Workshop „Publication of Research Data“, 05 Sept. 2018, GeoBonn

Name	Institution	Email
1		
5		

DFG Fachinformationsdienste (FID)

- Nationwide initiative to improve information infrastructures in research institutions
- FID GEO Partner:

SUB | NIEDERSACHSISCHE STAATS- UND
UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN

GFZ
Helmholtz-Zentrum
POTSDAM

- Start June 2016, Website: fidgeo.de

Specialised Information Service for Solid Earth Geosciences

Geoscientifically specialized search engines

ALBERT

GEO-LEO



Electronic publishing of institutional literature not released in publishing houses as well as pre- and postprints of research articles.



Electronic publishing of research data associated with peer-reviewed research articles.



Digitisation on demand of literature and maps in the public domain, out of print, or on behalf of the publishing institutions or societies.

News

[Few places available: Workshop „Publication of Research Data“, GeoBonn 2018](#)

Posted on 17. July 2018

Due to high demand, we have increased the number of places for the workshop [...read more →](#)

[TELMA online](#)

Posted on 16. August 2018

TELMA, annual journal of the German Peat Society, goes online. More than 200 TELMA-articles [...read more →](#)

[About FID GEO: Newsletter of Geodesy Committee \(DGK\)](#)

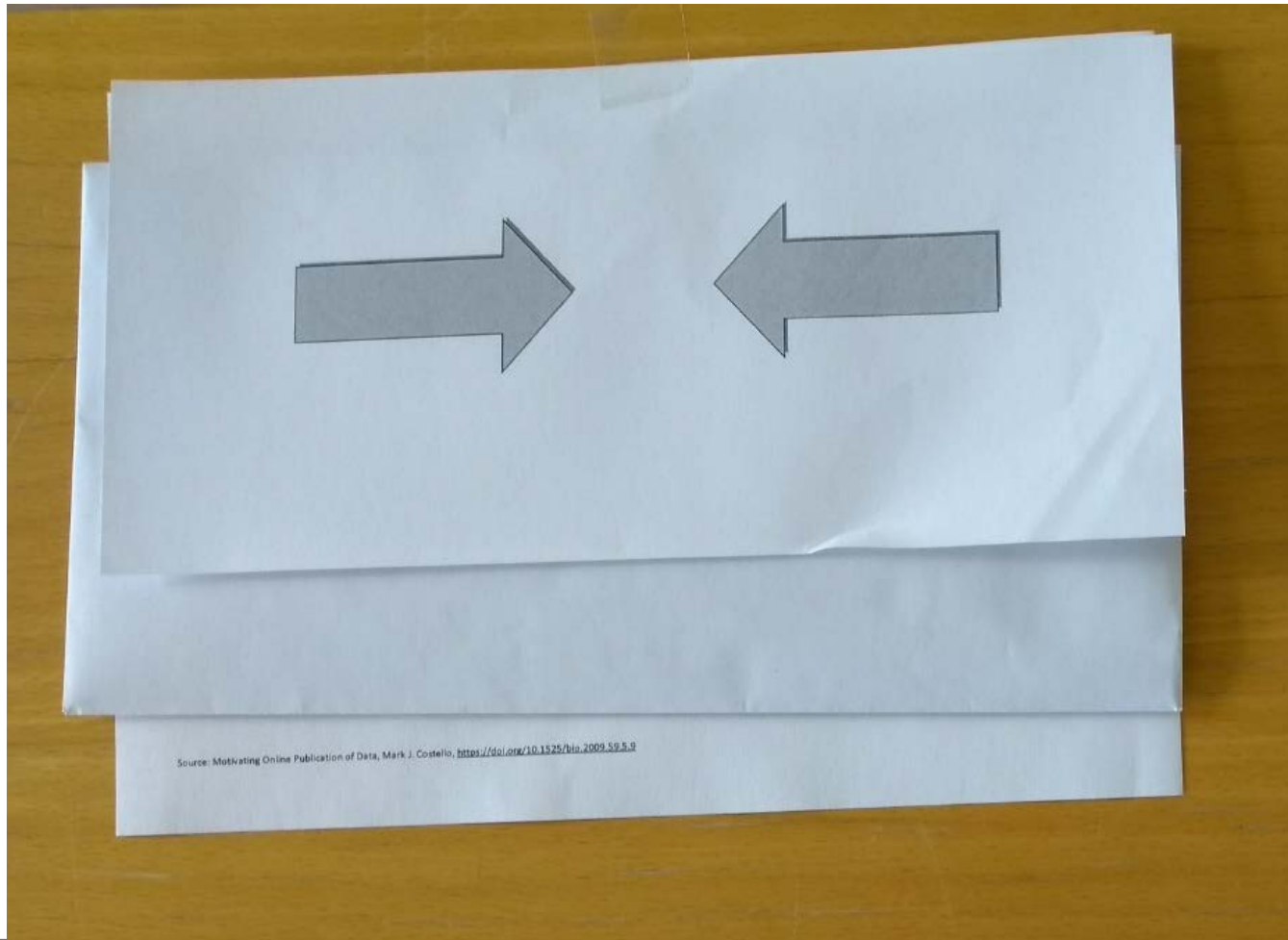
Posted on 18. July 2018

The FID GEO has presented its services to the members of the Geodesy Committee [...read more →](#)

fidgeo.de



Introduce yourself



Introduce yourself

- name
- working place
- research topic
- career level
- ...and: the „personal thing(s)“

Agenda

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Good Research Practice



Figure: The University of Sheffield, [CC-BY 3.0](https://creativecommons.org/licenses/by/3.0/)

Good Research Practice



Figure: The University of Sheffield, [CC-BY 3.0](https://creativecommons.org/licenses/by/3.0/)

Political perspective

“...all researchers should be able to deposit, access and analyse scientific data across disciplines and at the global scale,...

G7 Science Ministers Communiqué, Turin

<http://www.g8.utoronto.ca/science/2017-science-communique.html>



Funder perspective

“...open access is the default setting for research data generated in Horizon 2020.”

EU Horizon2020 OPEN RESEARCH DATA PILOT

EC's Guide on Open Access to Scientific Publications and Research Data in Horizon 2020 (updated August 25, 2016)
http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf



Funder perspective

“...research data should be made available as soon as possible.”

German Science Foundation
Guidelines for handling research data
Appeal to use open licences

http://www.dfg.de/download/pdf/foerderung/antragstellung/forschungsdaten/richtlinien_forschungsdaten.pdf

http://www.dfg.de/foerderung/info_wissenschaft/2014/info_wissenschaft_14_68/



Publisher perspective

Supporting data must be made available to editors and peer reviewers at the time of submission for the purposes of evaluating the manuscript. All manuscripts reporting original research published in Nature journals must include a data availability statement ...



After publication, all data and materials necessary to understand, assess, and extend the conclusions of the manuscript must be available to any reader of a *Science* Journal.



<https://www.nature.com/authors/policies/availability.html>
<http://www.sciencemag.org/authors/science-journals-editorial-policies>

Publisher perspective



Instructions for Authors

Authors should therefore archive the primary data to their papers at PANGAEA (<http://www.pangaea.de>) or a similar information system.



Instructions for Authors

We encourage research data to be archived in data repositories wherever possible.

<https://www.springer.com/earth+sciences+and+geography/geology/journal/531>

<https://www.springer.com/earth+sciences+and+geography/paleontology/journal/12542>

COPDESS

Coalition for Publishing Data in the Earth and Space Sciences

<http://www.copdess.org/>

GOAL

OPEN DATA in the
EARTH and SPACE
SCIENCES

43 SIGNATURES (Dec. 2017)



STATEMENT OF COMMITMENT

(January 2015)

- data should be stored in appropriate domain repositories.
- citations of data sets should be included within reference lists.
- include in research papers concise data availability statements.
- links to data sets in publications and corresponding links to journals in data facilities.

Enabling FAIR Data

15 September 2017

AGU is convening a partnership in the Earth and space science community to develop the standards to connect researchers, publishers, and data repositories.

The partnership currently includes **AGU**, Earth Science Information Partners (**ESIP**) and Research Data Alliance (**RDA**), and has support from the Proceedings of the National Academy of Sciences, Nature, Science, National Computational Infrastructure, AuScope, the Australian National Data Service, and the Center for Open Science.



<https://eos.org/editors-vox/enabling-findable-accessible-interoperable-and-reusable-data>

Obstacles

Rights of other scientist

with Co-authorship, all authors can only jointly decide on the reuse or publication.

Secrecy agreements

In third-party funded projects or by instruction of employer.

Patents

When the research data describe a patentable invention and this invention is to be filed for a patent.

Personalised data

Must be anonymised before publication.



Concerns

Lack of time to curate data

Data are only useful if they are understandable, adequate documentation is time-consuming.

Personal investment

Data collection takes time and trouble, other researcher are conceived as freeloaders.

Scooping

Fear of competition and resulting reduced publication opportunities.

Errors

Fear that errors being found in the data.



Advantages

Individual scientist

- Additional publications
 - Greater citation rate
 - Wider recognition among peers
 - Invitations to meetings
 - Invitations to collaborate
 - Invitations to provide consultancy
-
- Creators of data are known from citation and so are contactable for more information
 - Citation of data sources adds authority that indicates their quality

Mark J. Costello, Motivating Online Publication of Data <https://doi.org/10.1525/bio.2009.59.5.9>

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Mark J. Costello, Motivating Online Publication of Data <https://doi.org/10.1525/bio.2009.59.5.9>

Editors, peer reviewers

- Independent verification and qualification of research findings is possible

Scientific community

- Data can be reused for similar and new purposes
- Data can be integrated with other data to create new data resources

Funding agencies

- Better financial return from research investment as a data can be used again

Society

- Better science

Choose and rank the five most important advantages

Individual scientist

- Additional publications
 - Greater citation rate
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Choose and rank the five most important advantages

Individual scientist

- 2 Additional publications
- Greater citation rate
- 1 Wider recognition among peers
- Invitations to meetings
- 4 Invitations to collaborate
- Invitations to provide consultancy

- Creators of data are known from citation and so are contactable for more information
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Editors, peer reviewers

- Independent verification and qualification of research findings

Scientific community

- 3 Data can be reused for similar and new purposes
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Society

- 5 Better science

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Properties of granular analogue model materials: A community wide survey

M. Klinkmüller^{a,1}, G. Schreurs^{a,1}, M. Rosenau^b, H. Kemnitz^b

^a Institute of Geological Sciences, University of Bern, Baltzerstrasse 1 +3, CH-3012 Bern, Switzerland

^b Helmholtz-Zentrum Potsdam, GFZ Deutsches GeoForschungsZentrum, Telegrafenberg, D-14473 Potsdam, Germany

sented as grain size distribution curves, in which particle grain plotted against cumulative weight percentage (Fig. 2).

The original sieve data have been published open access available in Klinkmüller et al. (2016b).

References

Heilbronner, R., Keulen, N., 2006. Grain size and grain shape analysis. *Tectonophysics* 427, 199–216.

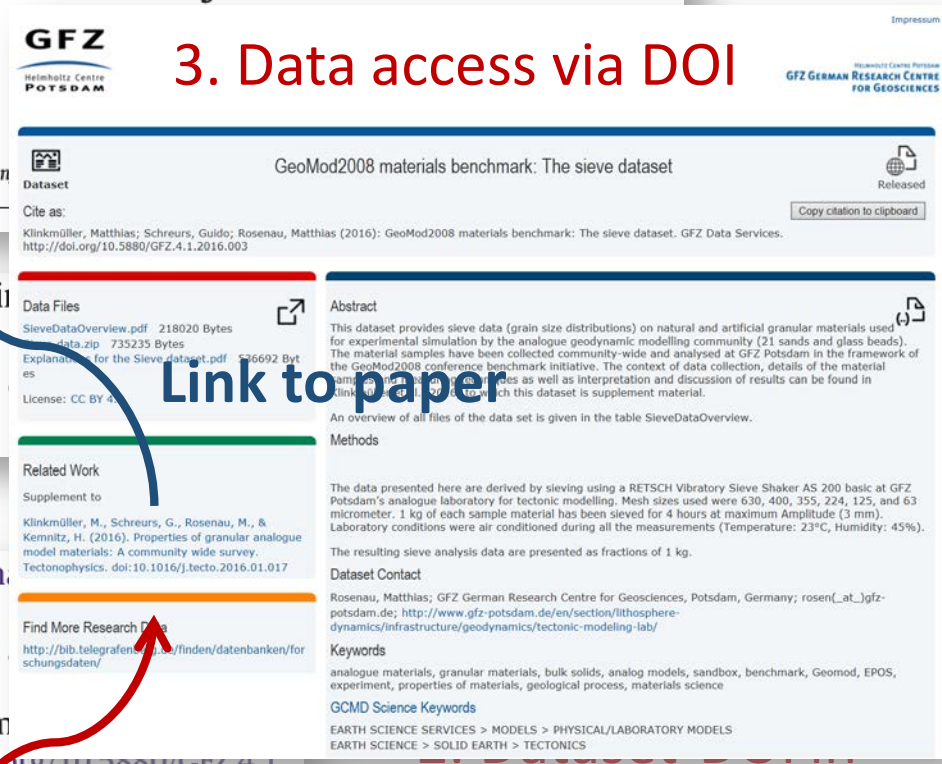
Hubbert, M.K., 1951. Mechanical basis for certain familiar geologic structures. *Am. Bull.* 62, 1259–1273.

Klinkmüller, M., Schreurs, G., Rosenau, M., 2016a. GeoMod2008 materials benchmark: The ring shear test data set. GFZ Data Services. <http://dx.doi.org/10.5880/GFZ.4.1.2016.002>.

Klinkmüller, M., Schreurs, G., Rosenau, M., 2016b. GeoMod2008 materials benchmark: The sieve data set. GFZ Data Services. <http://dx.doi.org/10.5880/GFZ.4.1.2016.003>.

Klinkmüller, M., Kemnitz, H., Schreurs, G., Rosenau, M., 2016c. GeoMod2008 materials benchmark: The SEM Image data set. GFZ Data Services. <http://dx.doi.org/10.5880/GFZ.4.1.2016.004>.

3. Data access via DOI



Link to paper

the References

Repositories

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

Repository = (online accessible) database for the recording and publication of research data, texts and other digital objects¹

¹ Einstieg ins Forschungsdatenmanagement in den Geowissenschaften, <https://doi.org/10.2312/lis.14.01>

Repositories

Institutional Repository

- members of the institution
- many disciplines

**Deposit
Once**

Repository for Research Data and Publications

**mediaTUM – der Medien- und Publikations-
server der Technischen Universität München**

Publizieren, archivieren und recherchieren Sie Hochschulschriften und andere wissenschaftliche Publikationen, Bild- und
Videokollektionen sowie Forschungsdaten. Derzeit sind auf mediaTUM **mehr als 230.000 Datensätze** öffentlich zugänglich
und werden von **vielen Diensten** indiziert, darunter die Deutsche Nationalbibliothek und Google Scholar.

Domain-specific Repository

- Researchers worldwide
- discipline-specific

GFZ Data Services



PANGAEA.

Data Publisher for Earth & Environmental Science



EarthChem

- Domain-specific metadata
- Connected to domain-specific Data portals
- Better quality-control
- extra services, e.g. integration of IGSN

Generic Repository

- Researchers worldwide
- all disciplines

zenodo



figshare

Description of data

Ensuring that data is „independently understandable“ is crucial.

Data Supplements

Dataset Supplement to: Monitoring snow depth by GNSS reflectometry in built-up areas: A case study for Wettzell, Germany **Released**

Cite as: [Copy citation to clipboard](#)
Vey, Sibylle; Güntner, Andreas; Wickert, Jens; Blume, Theresa; Thoss, Heiko; Ramatschi, Markus (2016): Supplement to: Monitoring snow depth by GNSS reflectometry in built-up areas: A case study for Wettzell, Germany. GFZ Data Services. <http://doi.org/10.5880/GFZ.1.1.2016.001>

Data Files

Vey-et-al-2016-US_2012_15.txt	44122 Byte
Vey-et-al-2016-GNSS_2012_15.txt	4449 Bytes

License: CC BY 4.0

Abstract

We provide data of a case study from the GNSS station Wettzell, Germany (WTZR). This data set contains snow depth derived from GNSS data using reflectometry. It covers a time period from July 1, 2012 to July 1, 2015 and gives the integral snow depth over an area of about 150 by 30 m. The data are daily averages based on daily measurements from 4 different satellites. The GNSS derived snow depth was validated by observations from ultrasonic sensors (US). The detailed description of the processing, the evaluation with US and the discussion of the results is described in Vey et al. (2016). The data are provided in ASCII format with four columns:

GNSS data (file Vey-et-al-2016-GNSS_2012_15.txt): (1) year (YEAR) (2) day of the year (DOY) (3) snow depth (SD cm) from GNSS (4) accuracy, root mean square error (RMSE cm)

Ultrasonic Sensor data (file Vey-et-al-2016-US_2012_15..txt): (1) year (YEAR) (2) day of the year (DOY) (3) SD_US_pillow (cm) snow depth from the US sensor located above snow pillow (4) SD_US_SPA(cm) snow depth from the US sensor located at the snow pack analyzer

Dataset Contact
Vey, Sibylle; GFZ German Research Centre for Geosciences, Potsdam, Germany; vey_at_gfz-potsdam.de

Keywords
Global Navigation Satellite System (GNSS), reflectometry, remote sensing, snow depth

GCMD Science Keywords
EARTH SCIENCE > CLIMATE INDICATORS > CRYOSPHERIC INDICATORS > SNOW DEPTH

More Metadata
iso19115: [view inline](#) / [download xml](#)
datacite: [view inline](#) / [download xml](#)
dif: [view inline](#) / [download xml](#)
escidoc: [view inline](#) / [download xml](#)

Related Work
Supplement to
Vey, Sibylle; Guntner, Andreas; Wickert, Jens; Blume, Theresa; Thoss, Heiko; Ramatschi, Markus (2016): Monitoring Snow Depth by GNSS Reflectometry in Built-up Areas: A Case Study for Wettzell, Germany. IEEE Journal of Selected Topics in Earth Observations and Remote Sensing. 2016.2516041

References
Larson, Kristine M.; Nievinski, Felipe G. (2013): GPS snow sensing: results from the EarthScope Plate Boundary Observatory. GPS Solutions. 10.1007/s10291-012-0259-7

Find More Research Data
<http://bib.telegrafenberg.de/finden/datenbanken/foersuchungsdaten/>

Map
Click/hover over details to see related

Links to data files

Abstract

Link to journal article

Data Journals

Peer-reviewed articles with the description of datasets, data collections, data infrastructures, etc.



No Interpretation!



Agenda

Introduction

Why publish research data?

How to publish?

5 min Break / 3 min video clip

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GFZ Data Services: Metadata Editor

Wrap up



Data Sharing and Management Snafu in 3 Short Acts

https://www.youtube.com/watch?v=66oNv_DJuPc

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Copyright

- Machine-generated and unprocessed raw data are not copyrightable.
- For most other data you should assume that data is protected by intellectual property rights.

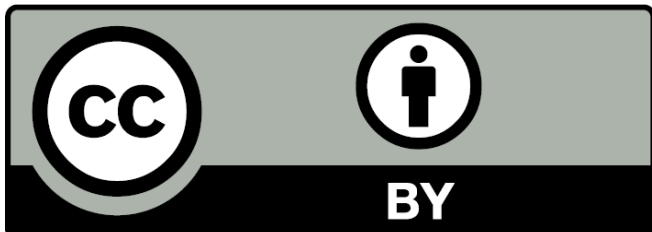
Übersetzt aus: Gutachten zu den rechtlichen Rahmenbedingungen des Forschungsdatenmanagements (2018)

https://tu-dresden.de/gsw/jura/igewem/jfbimd13/ressourcen/dateien/publikationen/DataJus_Zusammenfassung_Gutachten_12-07-18.pdf

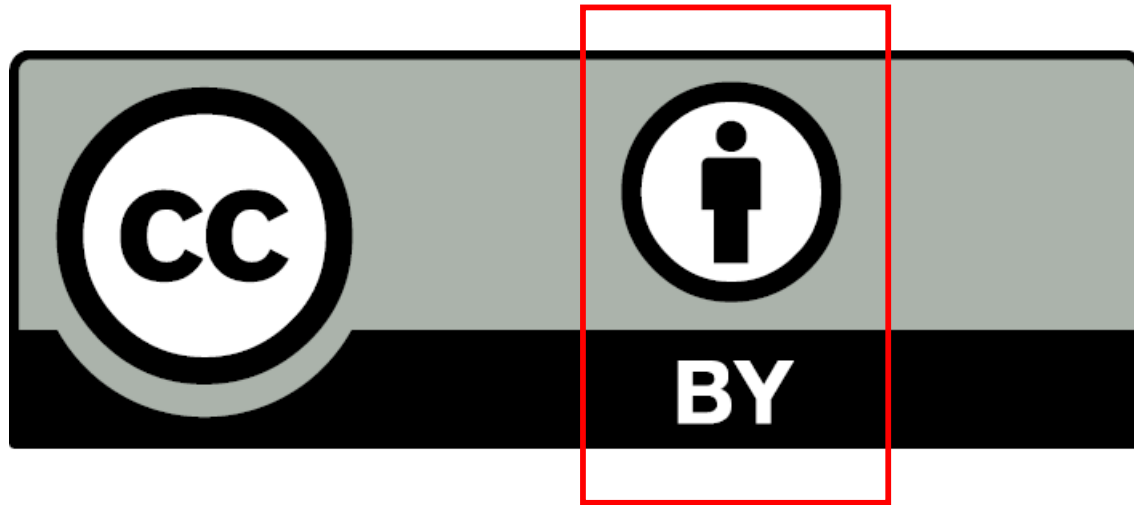
Reuse of data



<https://creativecommons.org/>



Dieses Werk ist lizenziert unter einer [Creative Commons Namensnennung 4.0 International Lizenz](https://creativecommons.org/licenses/by/4.0/).





Attribution (BY): You must give credit to author(s) or licensor



Non-Commercial (NC): reuse not for commercial purposes



Share Alike (SA): share only with an identical licence



No Derivatives (ND): work must not be changed.



No rights reserved (0): No Rights Reserved



Public Domain (PD): no known copyright restrictions



share



remix



commercial



most open



CC0



BY



BY



SA



share



remix



BY



NC



BY



NC



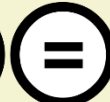
SA



share



BY



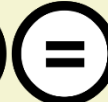
ND



BY



NC



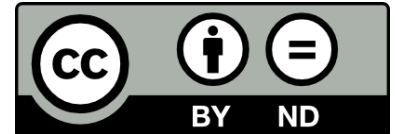
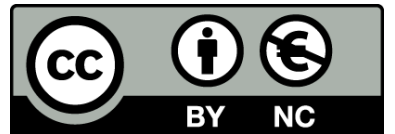
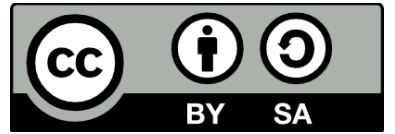
ND



all rights reserved

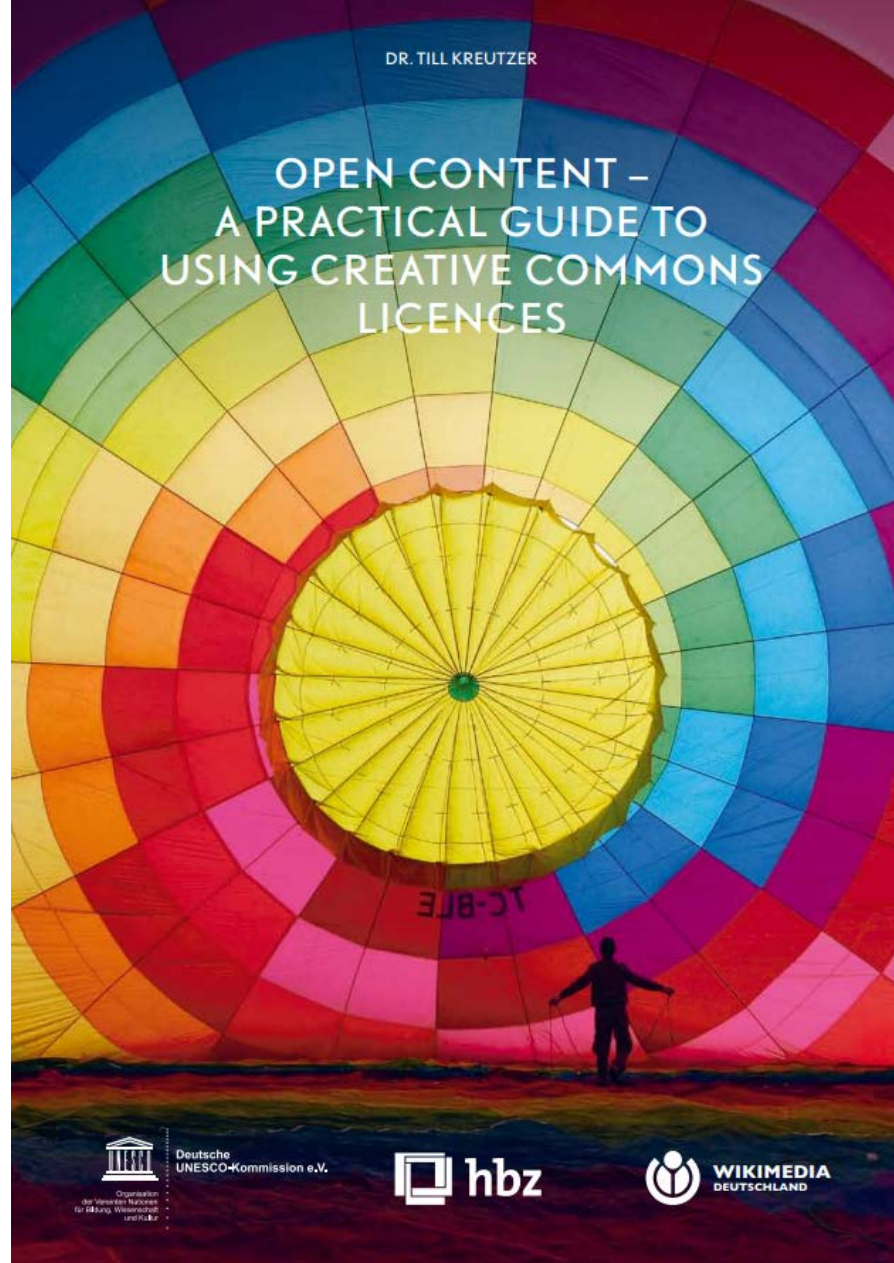
least open





DR. TILL KREUTZER

OPEN CONTENT – A PRACTICAL GUIDE TO USING CREATIVE COMMONS LICENCES



Deutsche
UNESCO-Kommission e.V.
Organisation
der Vereinten Nationen
für Bildung, Wissenschaft
und Kultur



https://irights.info/wp-content/uploads/2014/11/Open_Content_A_Practical_Guide_to_Using_Open_Content_Licences_web.pdf

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Metadata-Editor

Metadata ▾ Dataset ▾ Publication ▾ About/Help ▾

DataCite Metadata

Resource Information

DOI (will be generated in the publishing process)		Publisher		Year	
10.5880/GFZ.		GFZ Data Services		2018	
Resource Type	Title	Version	Language of dataset		
Dataset			eng		

Licenses and Rights

Licence
CC BY 4.0


Authors (Persons and/or Institutions)

Lastname	Firstname	Role	Author ID Type	Author Identifier (ID)	Affiliation

Contact Person(s) / Point of Contact

Author (Lastname, Firstname)	Position	Email	Website	Affiliation

Clear
Load
Save As
Submit
Form Errors



<http://pmd.gfz-potsdam.de/panmetaworks/metaedit/>

Metadata-Editor

1. ORCID
2. Contributors
3. Related work
4. Embargo

ORCID

Authors (Persons and/or Institutions)					
Lastname	Firstname	Role	Author ID Type	Author Identifier (ID)	Affiliation
Hübner	Andreas		please choose		
			ORCID		
			Researcher.id		
			Scopus		
			INSI		

ORCID: an ID for authors maintained by the ORCID. ORCID is an acronym, sort for Open Researcher and Contributor ID. See <http://www.orcid.org>

ORCID

ORCID

Connecting Research
and Researchers

<https://orcid.org>

<http://www.orcid-de.org/>

Andreas Hübner

ORCID ID

 <https://orcid.org/0000-0001-7342-9789>

The **Open Researcher and Contributor ID** distinguishes you from every other researcher.

Contributors

With “contributor” you have the possibility to acknowledge additional persons or institutions related to the dataset but which you would normally not mention as authors. These are not named in the citation, but always related with the dataset and searchable as all the other metadata fields.

Contributors (Persons and/or Institutions)					
Lastname	Firstname	Role	Contributor ID ...	Contributor Ide...	Affiliation
Duck	Donald	please choose			

- + Contact Person
- + Data Collector
- + Data Curator
- + Data Manager
- + Distributor
- + Editor
- + Hosting Institution
- + Producer
- + Project Lead
- + Project Manager
- + Project Member
- + Registration

Data Manager: Person (or organization with a staff of data managers, such as a data centre) responsible for maintaining the finished resource. The work done by this person or organization ensures that the resource is periodically "refreshed" in terms of software/hardware support, is kept available or is protected from unauthorized access, is stored in accordance with industry standards, and is handled in accordance with the records management requirements applicable to it.

Descriptions	
Type	Description

Contributors

With “contributor” institutions
These are responsible for
as all the other

Contributors (Person)

Lastname
Duck

Descriptions

Type

DataCurator	Person tasked with reviewing, enhancing, cleaning, or standardizing metadata and the associated data submitted for storage, use, and maintenance within a data center or repository	While the “DataManager” is concerned with digital maintenance, the DataCurators’ role encompasses quality assurance focused on content and metadata. This includes checking whether the submitted dataset is complete, with all files and components as described by submitter, whether the metadata is standardized to appropriate systems and schema, whether specialized metadata is needed to add value and ensure access across disciplines, and determining how the metadata might map to search engines, database products, and automated feeds.
DataManager	Person (or organization with staff of data managers, such as a data centre) responsible for maintaining the finished resource.	The work done by this person or organization ensures that the resource is periodically “refreshed” in terms of software/hardware support, is kept available or is protected from unauthorized access, is stored in accordance with industry standards, and is handled in accordance with the records management requirements applicable to it.
Distributor	Institution tasked with responsibility to generate/disseminate copies of the resource in either electronic or print form.	Works stored in more than one archive/repository may credit each as a distributor.
Editor	A person who oversees the details related to the publication format of the resource.	Note: if the Editor is to be credited in place of multiple creators, the Editor’s name may be supplied as Creator, with “(Ed.)” appended to the name.
Funder	Institution that provided financial support for the development of the resource.	Recommended for discovery. Includes organizations that provide funding via regular budget allocations, through grants or awards
HostingInstitution	Typically, the organization allowing the resource to be available on the internet through the provision of its hardware/software/operating support.	May also be used for an organization that stores the data offline. Often a data centre (if that data centre is not the “publisher” of the resource.). There may be two hosting institutions if the data or work is stored in both.
Producer	Typically a person or organization responsible for the artistry and form of a media product.	In the data industry, this may be a company “producing” DVDs that package data for future dissemination by a distributor.
ProjectLeader	Person officially designated as head of project team or subproject team instrumental in the work necessary to development of the resource.	The Project Leader is not “removed” from the work that resulted in the resource; he or she remains intimately involved throughout the life of the particular project team.
ProjectManager	Person officially designated as manager of a project. Project may consist of one or many project teams and sub-teams.	The manager of a project normally has more administrative responsibility than actual work involvement.

persons or
institution as authors.
and searchable

, such as a data
one by this
“refreshed” in terms
authorized
ed in
it.

Related Work

Related Work

Relation	Type	Identifier
please choose		
Compilation:IsCompiledBy		
Compilation:Compiles		
Versions:IsContinuedBy		
Versions:Continues		
Versions:IsVariantFormOf		
Versions:IsOriginalFormOf		
Versions:IsIdenticalTo		
Versions:IsNewVersionOf	Funder ID	Funder ID Type
Versions:IsPreviousVersion	Grant Number	Grant Name
Documentation:HasMetadata		
Documentation:IsMetadataFor		
Documentation:IsDocumentedBy		
Documentation:Documents		

IsNewVersionOf: This dataset is a new edition of ...

Re

Related Work		
Relation	IsCitedBy	indicates that B includes A in a citation (recommended for discovery).
Relation	Cites	indicates that A includes B in a citation (recommended for discovery).
Relation	IsSupplementTo	indicates that A is a supplement to B (recommended for discovery).
Relation	IsSupplementedBy	indicates that B is a supplement to A (recommended for discovery).
Relation	IsContinuedBy	indicates A is continued by the work B
Relation	Continues	indicates A is a continuation of the work B
Relation	HasMetadata	indicates resource A has additional metadata B
Relation	IsMetadataFor	indicates additional metadata A for a resource B
Relation	IsNewVersionOf	indicates A is a new edition of B, where the new edition has been modified or updated
Relation	IsPreviousVersionOf	indicates A is a previous edition of B
Relation	IsPartOf	indicates A is a portion of B; may be used for elements of a series (recommended for discovery).
Relation	HasPart	indicates A includes the part B (recommended for discovery).
Relation	IsReferencedBy	indicates A is used as a source of information by B
Relation	References	indicates B is used as a source of information for A
Relation	IsDocumentedBy	indicates B is documentation about/ explaining A
Relation	Documents	indicates A is documentation about/B
Relation	IsCompiledBy	indicates B is used to compile or create A
Relation	Compiles	indicates B is the result of a compile or creation event using A
Relation	IsVariantFormOf	indicates A is a variant or different form of B, e.g. calculated or calibrated form or different packaging
Relation	IsOriginalFormOf	indicates A is the original form of B
Relation	IsIdenticalTo	indicates that A is identical to B, for use when there is a need to register two separate instances of the same resource
Relation	IsReviewedBy	indicates that A is reviewed by B
Relation	Reviews	indicates that A is a review of B
Relation	IsDerivedFrom	indicates B is a source upon which A is based
Relation	IsSourceOf	indicates A is a source upon which B is based

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Embargo

Dates

	Date from	Date to
Created	<input type="text" value="YYYY-MM-DD"/>	
Embargo until		<input type="text" value="YYYY-MM-DD"/>
Valid	<input type="text" value="YYYY-MM-DD"/>	<input type="text" value="YYYY-MM-DD"/>

The date the resource is made publicly available. Use this field to indicate the end of an embargo period.

Agenda

Introduction

Why publish research data?

How to publish?

5 min Break / 3 min video clip

Licences

GFZ Data Services: Metadata Editor

Wrap up

Wrap up

- Please provide feedback (3 min)
- Meet us after the workshop