



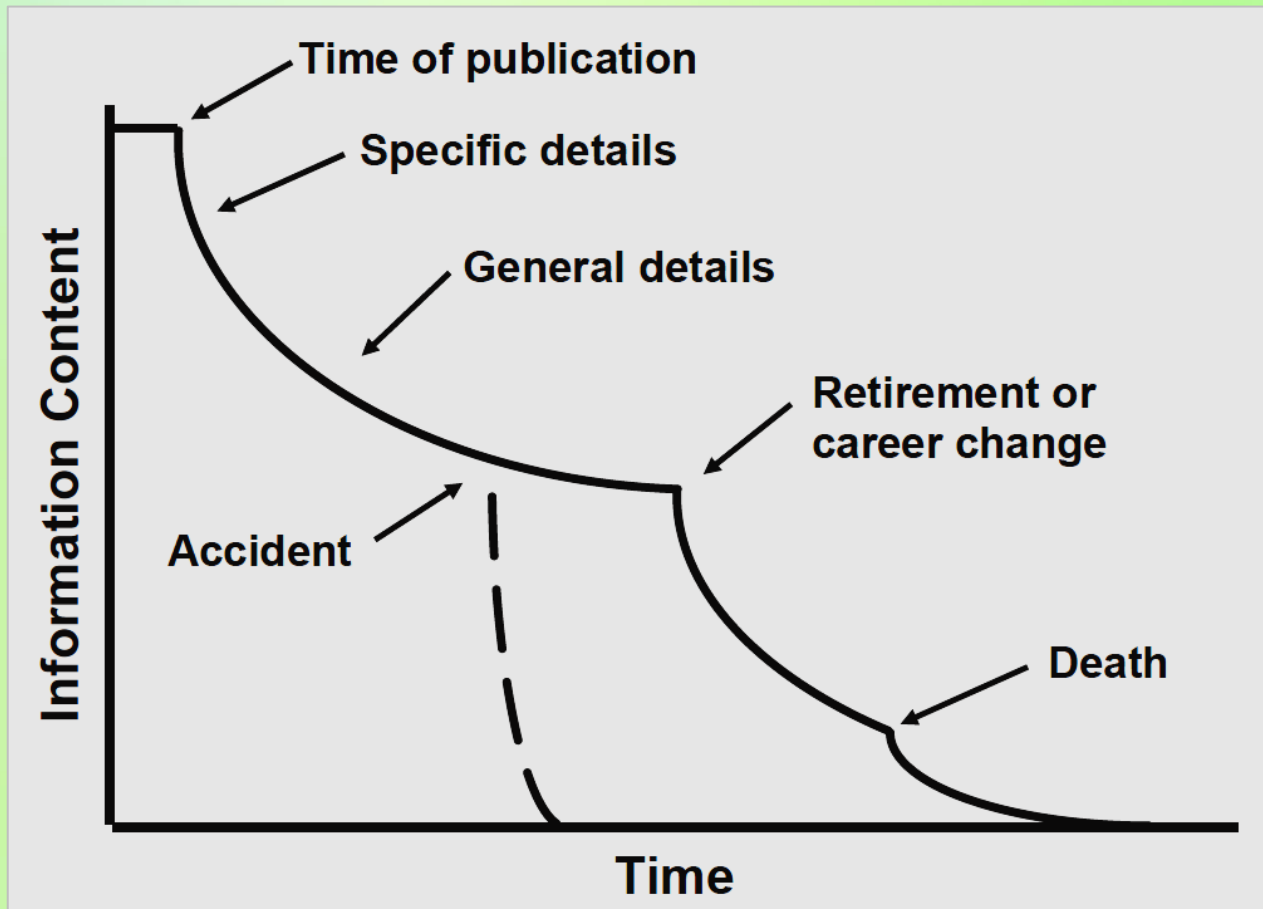
GBIF Data Papers in Peer Reviewed Journals

Tanja Weibulat

LAND Community Workshop, 20.01.2025



Das Schicksal wissenschaftlicher Daten



<https://doi.org/10.1016/j.econinf.2005.08.004>

FAIR-Prinzipien

2016

FAIR Data Principles*

Geprägt von der FORCE 11-Community 2014 auf einem Workshop des Lorenz Center for Scientific Workshops in All Disciplines, publiziert 2016

Auffindbar
(Findable)



Zugänglich
(Accessible)



Interoperabel
(Interoperable)



Wiederverwendbar
(Reusable)



<https://forschungsdaten.info/themen/veroeffentlichen-und-archivieren/faire-daten/>
Paulina Halina Sieminska / CC BY SA 4.0

*<https://www.force11.org/group/fairgroup/fairprinciples>

Datenpublikation bei GBIF



- **Global Biodiversity Information Facility**
- Internationales Netzwerk und Dateninfrastruktur
- Finanziert durch Regierungen weltweit
- Ziel: Jede Person überall auf der Welt soll freien Zugriff auf Daten haben, die irgendeine Lebensart auf der Erde betreffen
- Momentan bei GBIF veröffentlichte Daten:



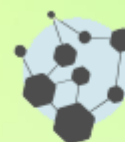
3.047.472.040

Occurrence records



111.181

Datasets



2.360

Publishing institutions



12.041

Peer-reviewed papers
using data

<https://www.gbif.org>, Stand 19.1.2025

Was ist ein Data Paper?

Publiziert als referierter Artikel
in einer wissenschaftlichen
Zeitschrift

durchsuchbares
Metadatendokument

beschreibt konkretes
Dataset oder
Gruppe von Datasets

Primäres Ziel: Beschreibung
von Daten und Umstände
der Erhebung

Nicht gegliedert nach:
wissenschaftliche Hypothese,
Datenanalyse, Diskussion und
Schlussfolgerung

Vorteile eines Data Papers

“richtige”, in der
Wissenschaftsgemeinschaft
anerkannte Publikation →
Publikationsliste

Wissen um Existenz der
Daten in wissenschaftliche
Community bringen

Daten sind in einer
strukturierten,
menschens-lesbaren
Weise beschrieben

Wissenschaftliche
Anerkennung für
Datenpublikation erhalten

Möglichkeit, die Mitarbeit
vieler Menschen und
Organisationen/Funder zu
würdigen

Geeignete Datenpakete für Data Paper

- Keine strengen Regeln
- Oft ist ein größeres Datenpaket besser geeignet
- Mehrere Datenpakete können in einem Data Paper beschrieben werden
- Thematischer Fokus: geographisch, taxonomisch, sammlungshistorisch, etc.
- Signifikanz: Langzeitdaten, erstes Datenpaket seiner Art, alle Daten einer Institution oder eines Projektes, alle Daten die in einem (neuen) Workflow/Datenpipeline verwendet werden, etc.
- Orientierung an bereits veröffentlichten Data Papers kann hilfreich sein!

Data Paper Tools



- GBIF Integrated Publishing Toolkit (IPT)

- Zusammenarbeit mit Pensoft Publishern



- Metadaten werden als RTF-formatiertes Manuskript heruntergeladen und können bei beliebigen Journals eingereicht werden

- NephilaPaper

- Extrahiert Metadaten aus DwC-A
- RTF-formatiertes Manuskript



Data Paper Tools





- arpha Writing Tool
 - nochmal vereinfachter Prozess der Publikation eines Data Papers
 - Metadaten hochladen, gemeinsam schreiben, kommentieren, submitten, referieren - alles in einem web-basierten Tool
 - direkte Submission zum Biodiversity Data Journal



Zeitschriften für Data Paper aus dem Bereich der Biodiversität



- Stand September 2024: 28 Zeitschriften

Journal	Open Access (license)	APC estimate	Journal Impact Factor (2023)	Scopus CiteScore (2023)
 Nature Conservation <small>A peer-reviewed open-access journal</small> <small>Launched to accelerate biodiversity conservation</small>	CC BY	EUR 400	-	0.9
Annals of Forest Science	CC BY	EUR 1690	2.5	6.7
Arxius de Miscel·lània Zoològica	CC BY	0	-	1.1
 Biodiversity Data Journal <small>A peer-reviewed open-access journal</small> <small>Making your data count!</small>	CC BY	EUR 910	4.2	7.4
Biogeographia	CC BY	from EUR 650	1	2.2
Biogeographia	CC BY	0	-	2.3



<https://www.gbif.org/data-papers>

Calls für GBIF Data Papers – Thematische Communities



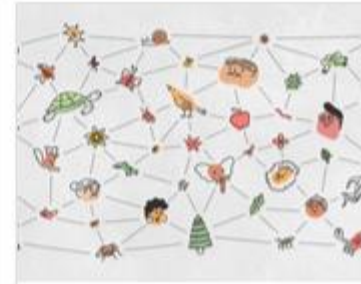
Soil



Conservation



Climate change



Human health and One Health



DNA barcoding and metagenomics



Agriculture and food security



Business sector



Scientific collections

<https://www.gbif.org/>

Calls für GBIF Data Papers



NEWS | 16 FEBRUARY 2023
Dig deep and share: Call for data papers describing datasets on soil

https://bdj.pensoft.net/topical_collections



Collection

Closed for submission

Soil biodiversity

Edited by Dmitry Schigel, Tobias Frøslev, Paulo Borges, Anton Potapov, Arturo H. Ariño

In collaboration with the Finnish Biodiversity Information Facility (FinBIF) and Pensoft Publishers, GBIF has announced a new call for authors to submit and publish data papers on soil biodiversity in a special collection of *Biodiversity Data Journal (BDJ)*. The call expands upon the partners' successful efforts to mobilize data in 2020-2022.

Until **31 December 2023**, Pensoft will waive the article processing fee (normally €650) for the first 40 accepted data paper manuscripts that meet the following criteria for describing a dataset:

- with more than 5,000 presence records new to GBIF.org in 2023
- with high-quality data and metadata
- with coverage of species/taxa occurring in soil at least at one stage of their life cycle

See full description of the call and additional resources.

[show less](#)

doi [10.3897/bdj.coll.206](https://doi.org/10.3897/bdj.coll.206)

Papers published: 3

Taxa: Gastropoda (1), Clitellata (1), Amblypygi (1), Araneae (1), Opiliones (1), Pseudoscorpiones (1), Scorpiones (1), Solifugae (1), Uropygi (1), Diplopoda (1), Chilopoda (1), Symphyla (1), Diplura (1), Zygentoma (1), Orthoptera (1), Isoptera (1), Dermaptera (1), Thysanoptera (1), Hemiptera (1), Neuroptera (1), Coleoptera (1), Lepidoptera (1), Trichoptera (1), Diptera (1), Mermithida (1), Vespoidea (1), Malacostraca (1), Archaeognatha (1), Ixodida (1), Geoplanidae (1), Enchytraeidae (1), Blattellidae (1)

Subject: Zoology & Animal Biology (1), Biodiversity & Conservation (1), Macroecology (1), Parks and Protected Areas (1), Soils and Soil Ecology (1), Terrestrial (1), Tropical Forests (1), Urban and Built Environment (1), Global Change (1), Agricultural ecology (1), Agricultural soil science (1), Tropical agriculture (1), Databases (1), Soil science (1)

Regions: Brazil (1)

https://bdj.pensoft.net/topical_collections

Calls für GBIF Data Papers



Get data How-to Tools Community About Login

Summary of papers and datasets in the series

Third call for data papers

TDR, GigaScience Press and GE datasets that pre.

authors	title	Dataset(s)
Andrade-Filho JD et al.	Online catalogue of the Coleção de Flebotomíneos (FIOCRUZ/COLFLEB), a biological collection of American sand flies (Diptera: Psychodidae, Phlebotominae) held at Fiocruz Minas, Brazil 10.46471/gigabyte.52	10.15468/sxcpfp
Marceló-Díaz C et al.	Arbovirus vectors in municipalities with a high risk of dengue in Cauca, Southwestern Colombia 10.46471/gigabyte.53	10.15472/dxbowv
Južnič-Zonta Ž et al.	Mosquito alert: leveraging citizen science to create a GBIF mosquito occurrence dataset 10.46471/gigabyte.54	10.15470/t5a1os
dos Santos Conceição M et al.	Culicidae (Diptera: Culicomorpha) in the southern Brazilian 'Ana Leuch Lozovei' collection, with notes on distribution and diversity 10.46471/gigabyte.55	10.15468/g7628g
Paull SH, Thibault KM & Benson AL	Tick abundance, diversity and pathogen data collected by the National Ecological Observatory Network 10.46471/gigabyte.56	10.15468/b52b9z
Miranda M et al.	AIMSurv: First pan-European harmonized surveillance of Aedes invasive mosquito species of relevance for human vector-borne diseases 10.46471/gigabyte.57	10.15470/vs3677



<https://www.gbif.org/news/7LoWkOFSe6npBRiHdx0O4D/fighting-vector-borne-diseases-with-data>

Calls für GBIF Data Papers



TOOL: DATA PAPERS



Data papers

4 years
6 special issues
1,961,540 new records in GBIF



Data growth

2020-21	Biota of Russa	Biodiversity Data Journal	59 papers	1,171,270 records
2022	Northern Eurasia	Biodiversity Data Journal	11 papers	86,833 records
2022	Vectors of human diseases	GigaByte	11 papers	555,805 records
2023	Freshwater biodiversity data	Journal of Limnology	12 papers	134,973 records
2023	Soil biodiversity	Biodiversity Data Journal	0 papers	0 records
2023	Vectors of human diseases II	GigaByte	0 papers	0 records








https://assets.ctfassets.net/uo17ejk9rkwj/2yXzsNWvlakrvYugA0wYXQ/63ea1820c60e5b85b62537b6ff0a5408/Schigel_Data_Papers_2023.pdf

Data Paper mit dem Arpha Writing Tool

The screenshot displays the Arpha Writing Tool interface. At the top, the 'arpha writing tool' logo is on the left, and navigation links for 'Feedback' and 'Tips and Tricks' are in the center. On the right, there is a user profile icon for 'Mrs Tanja Weibulat' and a settings gear icon. Below the navigation bar, two prominent teal buttons are visible: 'Start new manuscript' (with a mouse cursor over it) and 'Convert from file'. The main content area is titled 'My manuscripts' and features a teal 'Journals' header. Underneath, there are two filter options: 'Research Ideas and Outcomes' (with a tree icon) and 'Biodiversity Information Science and Standards' (with a 'BIS' icon). Below these are two filter sections: 'Article type' with a 'Search by article types' input field, and 'Article status' with a 'Search by status' input field. A black 'Search' header is followed by a search input field containing the placeholder text 'Search for text in document title, collection title, document id ... or for author name put the search text in square brackets (i.e. [Linnaeus]) ...' and a black 'Search' button.


Data Paper mit dem Arpha Writing Tool






To start a manuscript select a journal and an article type

-  Biodiversity Data Journal
-  Research Ideas and Outcomes
-  One Ecosystem
-  Biodiversity Information Science and Standards
-  ARPHA Conference Abstracts
-  Viticulture Data Journal
-  Soils for Europe


Research ideas	Early research outcomes	Brief research outcomes
<input type="radio"/> Data Management Plan	<input type="radio"/> Applied Study	<input type="radio"/> Commentary
<input type="radio"/> Grant Proposal	<input type="radio"/> Case Study	<input type="radio"/> Conference Abstract
<input type="radio"/> PhD Project Plan	<input type="radio"/> Clinical Case Studies	<input type="radio"/> Correspondence
<input type="radio"/> PostDoc Project Plan	<input type="radio"/> Data analytics	<input type="radio"/> Ecosystem Accounting Table
<input type="radio"/> Research Idea	<input type="radio"/> Data Paper (Biosciences)	<input type="radio"/> Ecosystem Inventory
<input type="radio"/> Software Management Plan	<input type="radio"/> Data Paper (Generic)	<input type="radio"/> Ecosystem Service Mapping
	<input type="radio"/> Emerging Technique	<input type="radio"/> Ecosystem Service Models


Data Paper mit dem Arpha Writing Tool


 **Arpha** writing tool


 Feedback  Tips and Tricks  Tutorial  Mrs Tanja Weibulat 


To start a manuscript select a journal and an article type


 Biodiversity Data Journal


 Research Ideas and Outcomes




 One Ecosystem

 Biodiversity Information Science and Standards

 ARPHA Conference Abstracts

 Viticulture Data Journal

 Soils for Europe

Research ideas	Early research outcomes	Brief research outcomes
<input type="radio"/> Data Management Plan	<input type="radio"/> Applied Study	<input type="radio"/> Commentary 
<input type="radio"/> Grant Proposal	<input type="radio"/> Case Study	<input type="radio"/> Conference Abstract
<input type="radio"/> PhD Project Plan	<input type="radio"/> Clinical Case Studies	<input type="radio"/> Correspondence
<input type="radio"/> PostDoc Project Plan	<input type="radio"/> Data analytics	<input type="radio"/> Ecosystem Accounting Table
<input type="radio"/> Research Idea	<input checked="" type="radio"/> Data Paper (Biosciences) 	<input type="radio"/> Ecosystem Inventory
<input type="radio"/> Software Management Plan	<input type="radio"/> Data Paper (Generic)	<input type="radio"/> Ecosystem Service Mapping
	<input type="radio"/> Emerging Technique	<input type="radio"/> Ecosystem Service Models
	<input type="radio"/> Formal Model Article Format	<input type="radio"/> Institutional/Society announcement
	<input type="radio"/> Forum Paper	<input type="radio"/> Interdisciplinary Perspectives 

Data Paper mit dem Arpha Writing Tool

The screenshot shows the Arpha Writing Tool interface. At the top left is the logo "Arpha writing tool". The navigation bar includes "Feedback", "Tips and Tricks", and "Tutorial". On the right, the user is identified as "Mrs Tanja Weibulat".

The main content area displays a list of document types, each with a radio button and a magnifying glass icon:

- Guidelines
- Interactive Key
- Policy Brief
- Replication Study
- Research Article
- Review Article
- Species Conservation Profiles
- Standards
- Taxonomy & Inventories
- Wikipedia Article

On the right side, there is a partial list of document types:

- Data Review
- Editorial
- Obituary
- Software Review

Below the list is a "Reset selection" button with a circular arrow icon.

At the bottom, there are two options for manuscript creation:

- Create manuscript** (a teal button)
- OR
- Import a manuscript** (a light blue button with a mouse cursor over it)

Data Paper mit dem Arpha Writing Tool

Import a manuscript

Import from EML metadata

Supported EML versions: 2.1.1, 2.1.0 (e.g. generated from GBIF IPT, DataONE and LTER)

OR

Import an European Nucleotide Archive (ENA) Study ID or Project ID

Resource study or project id

Note: You can take the identifier from URL

<https://www.ebi.ac.uk/ena/data/view/PRJDB2900&display=xml>

OR

Import from FSKX archive

Upload from file

 [Upload from url](#)

OR

Import an AGINFRA resource item

Resource item_id

Note: You can take the item_id from the catalogue item URL

http://data.d4science.org/ctlg/FM_Lab/56236a41-0067-4b38-9efc-828d4726580f

OR

Import any other manuscript via our

[API](#)

Metadaten als EML von GBIF herunterladen

The screenshot shows the GBIF dataset page for 'small_terrestrial_mammals_along_a_gradient_of_forest_anthropisation_france'. The page has a green header with navigation links: 'Get data', 'How-to', 'Tools', 'Community', and 'About'. On the right side of the header, there are icons for home, search, and a 'Login' button. Below the header, there are two buttons: '1,593 OCCURRENCES' and '27 CITATIONS'. A left sidebar contains a list of menu items: 'Description', 'Temporal scope', 'Geographic scope', 'Taxonomic scope', 'Methodology', 'Bibliography', 'Contacts', 'Data description', 'GBIF registration', and 'Citation'. The main content area is titled 'Data description' and includes the following information:

- Metadata language:** English
- Data language:** English

The next section is 'GBIF registration', which includes:

- Registration date:** July 13, 2022
- Metadata last modified:** September 20, 2022
- Publication date:** September 20, 2022
- Hosted by:** GBIF France
- Installation:** IPT GBIF France
- Installation contacts:** GBIF France

Under 'Endpoints', there are two links:

- https://ipt.gbif.fr/archive.do?r=small_terrestrial_mammals_along_a_gradient_of_forest_anthropisation_france (Darwin Core Archive)
- https://ipt.gbif.fr/eml.do?r=small_terrestrial_mammals_along_a_gradient_of_forest_anthropisation_france (EML)

The EML link is highlighted in blue. Below this, there are 'Preferred identifier' and 'Alternative identifiers' sections, each showing a DOI (10.15468/bn8zz7 and 10.1098/rspb.2002.2218) with a circular icon containing a question mark. The alternative identifiers section also includes the URL https://ipt.gbif.fr/resource?r=small_terrestrial_mammals_along_a_gradient_of_forest_anthropisation_france and another instance of the DOI and URL. At the bottom of the main content area, there is a link to 'See details in the GBIF Registry'.

Data Paper mit dem Arpha Writing Tool

Import a manuscript

Import from EML metadata

Supported EML versions: 2.1.1, 2.1.0 (e.g. generated from GBIF IPT, DataONE and LTER)

OR

Import an European Nucleotide Archive (ENA) Study ID or Project ID

Resource study or project id

Note: You can take the identifier from URL

<https://www.ebi.ac.uk/ena/data/view/PRJDB2900&display=xml>

OR

Import from FSKX archive

Upload from file

OR

Import an AGINFRA resource item

Resource item_id

Note: You can take the item_id from the catalogue item URL

http://data.d4science.org/ctlg/FM_Lab/56236a41-0067-4b38-9efc-828d4726580f

OR

Import any other manuscript via our

[API](#)

Data Paper mit dem Arpha Writing Tool

The screenshot displays the Arpha Writing Tool interface. At the top left, the 'arpha writing tool' logo is visible. The top right corner shows the user profile 'Mrs Tanja Weibulat'. The main content area is titled 'Biodiversity Data Journal : Taxonomy & Inventories' and features a 'PDF' icon. The central text reads 'Data Paper Tutorial' followed by the author's name 'Tanja Weibulat'. Below this, a text box contains the following information: 'Corresponding author: Tanja Weibulat (weibulat@snsb.de)', '© Tanja Weibulat', and 'Citation:'. An 'OPEN ACCESS' logo is positioned to the right of the text box. The left sidebar contains a navigation menu with categories such as 'Taxonomy & Inventories', 'Authors', 'Contributors', 'Article metadata', 'Introduction', 'Materials and methods', 'Data resources', 'Taxon treatments', 'Checklists', 'Identification keys', 'Analysis', 'Discussion', 'Acknowledgements', 'Author contributions', 'References', and 'Supplementary files'. The right sidebar includes a 'Resolved' status and a 'Filter' button.

Data Paper mit dem Arpha Writing Tool

The screenshot displays the Arpha Writing Tool interface. At the top left, the 'arpha writing tool' logo is visible. The main content area shows a draft of a data paper with a title, abstract, and introduction. The left sidebar contains navigation options: Authors, Contributors, Article metadata (Title, Abstract & Keywords, Classifications, Funder, Nanopublications), Introduction, General description, Project description, Sampling methods, Geographic coverage, and Taxonomic coverage. The top right corner features a user profile icon labeled 'Ms' and a 'Resolved' status indicator.

Data Paper mit dem Arpha Writing Tool

You can write and edit your text directly on the platform

Abstract

Background



Zoonosen sind ein großes Problem für die öffentliche Gesundheit, und nach der jüngsten Pandemie, haben sie sich wieder als globale Bedrohung etabliert. Die Weltgesundheitsorganisation (WHO) hat die Zoonosen als eine der größten Bedrohungen für die menschliche Gesundheit identifiziert. In diesem Artikel werden wir die Herausforderungen bei der Bekämpfung von Zoonosen diskutieren und einige mögliche Lösungsansätze vorstellen.

Data Paper mit dem Arpha Writing Tool

Before submission of a data paper, the dataset needs to be validated (technical evaluation). After passing the technical evaluation, the manuscript can be submitted



Thank you!



Tanja Weibulat, SNSB IT Center

