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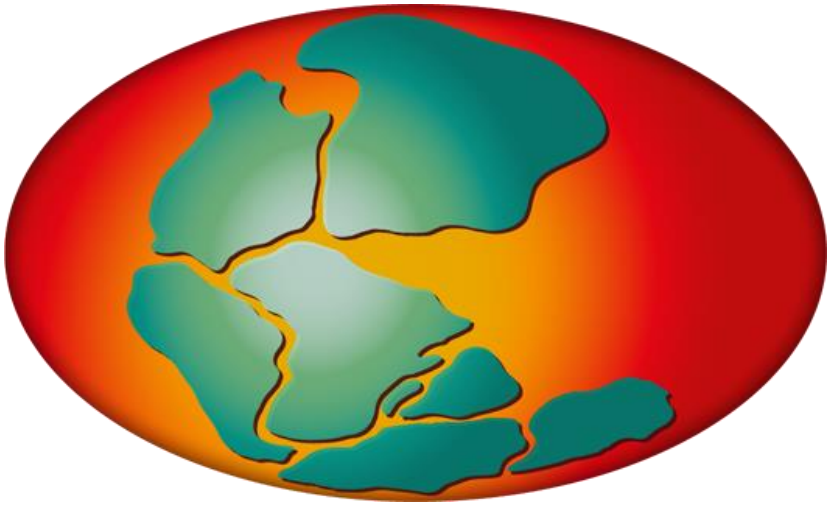
HELMHOLTZ-ZENTRUM FÜR POLAR- UND MEERESFORSCHUNG

PANGAEA Data Publisher for Earth & Environmental Science

INTERACT Workshop 2022



Amelie Driemel, PANGAEA Team

2022-05-12

HELMHOLTZ GEMEINSCHAFT

Overview

- Data publication – why?
- PANGAEA
- Data submission/publication in PANGAEA
- Data search in PANGAEA
- New feature in PANGAEA: dataset statistics

Why should I publish my data?

Easy to loose data...

1. Delete the file, no backup
2. Computer virus/Malware/Malfunction in software
3. Server is reorganized => links to data change
4. Theft/loss (PC/USB/ext. drive)
5. Damaged hardware
6. You just forget about your data when you move to another position

…and/or associated metadata...

PANGAEA

- www.PANGAEA.de is an open access Data Publisher for Earth and Environmental Sciences (data + metadata!)

- Your data are stored **georeferenced** in space and time
- Your datasets receive a **citable and permanent DOI**
- Your datasets can be **found** via the internet and can be **downloaded** from the PANGAEA web page (**moratorium possible!**)

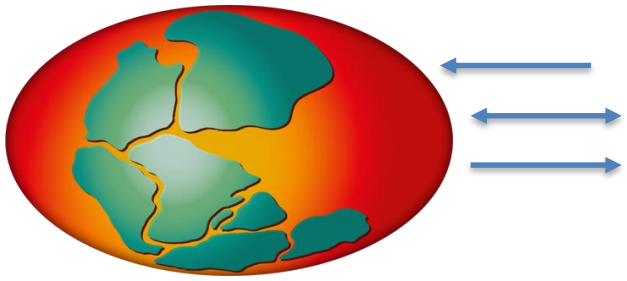
PANGAEA

Our Data Holdings

712
Projects

410,575
Datasets

21,075,949,190
Measurements



DataCite
International Data Citation

DATA CITATION INDEX
THOMSON REUTERS

DataONE

de.NBI

GBIF.org

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GERMAN FEDERATION FOR BIOLOGICAL DATA

Google

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INTERNATIONAL OCEAN DISCOVERY PROGRAM

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OCEAN BIOGEOGRAPHIC INFORMATION SYSTEM

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Connecting Research and Researchers

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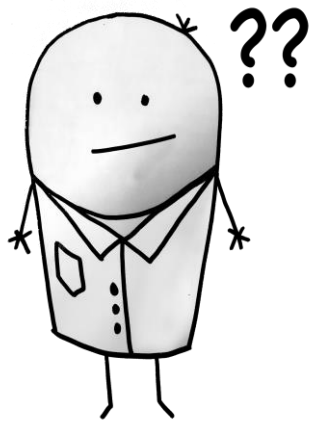
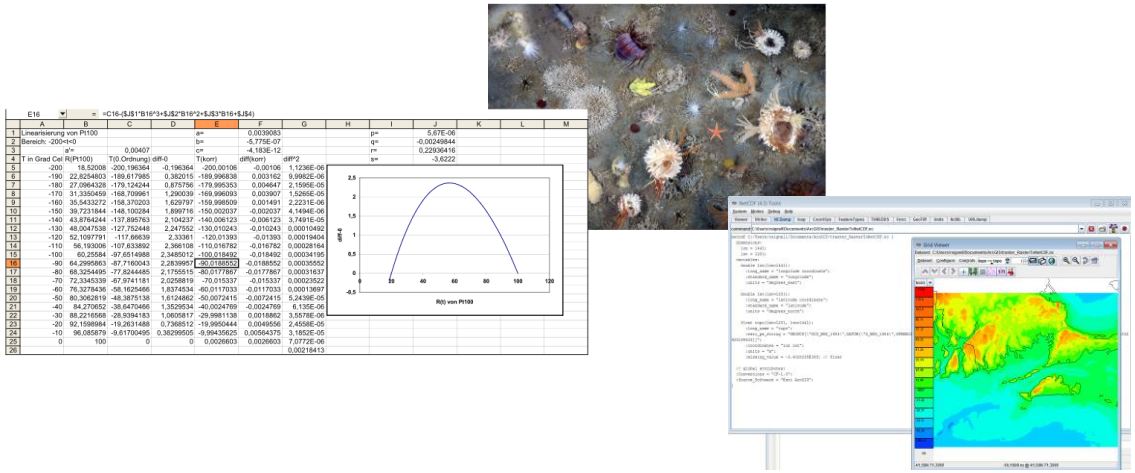
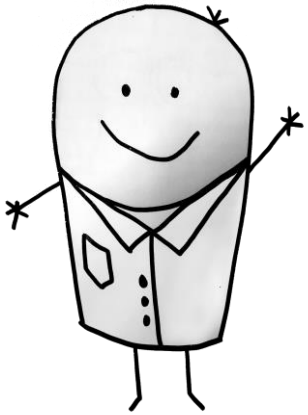
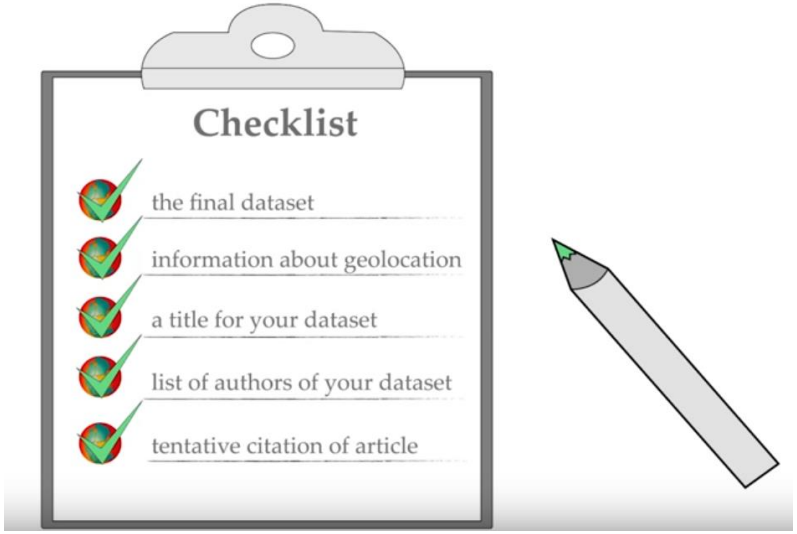
This is life..





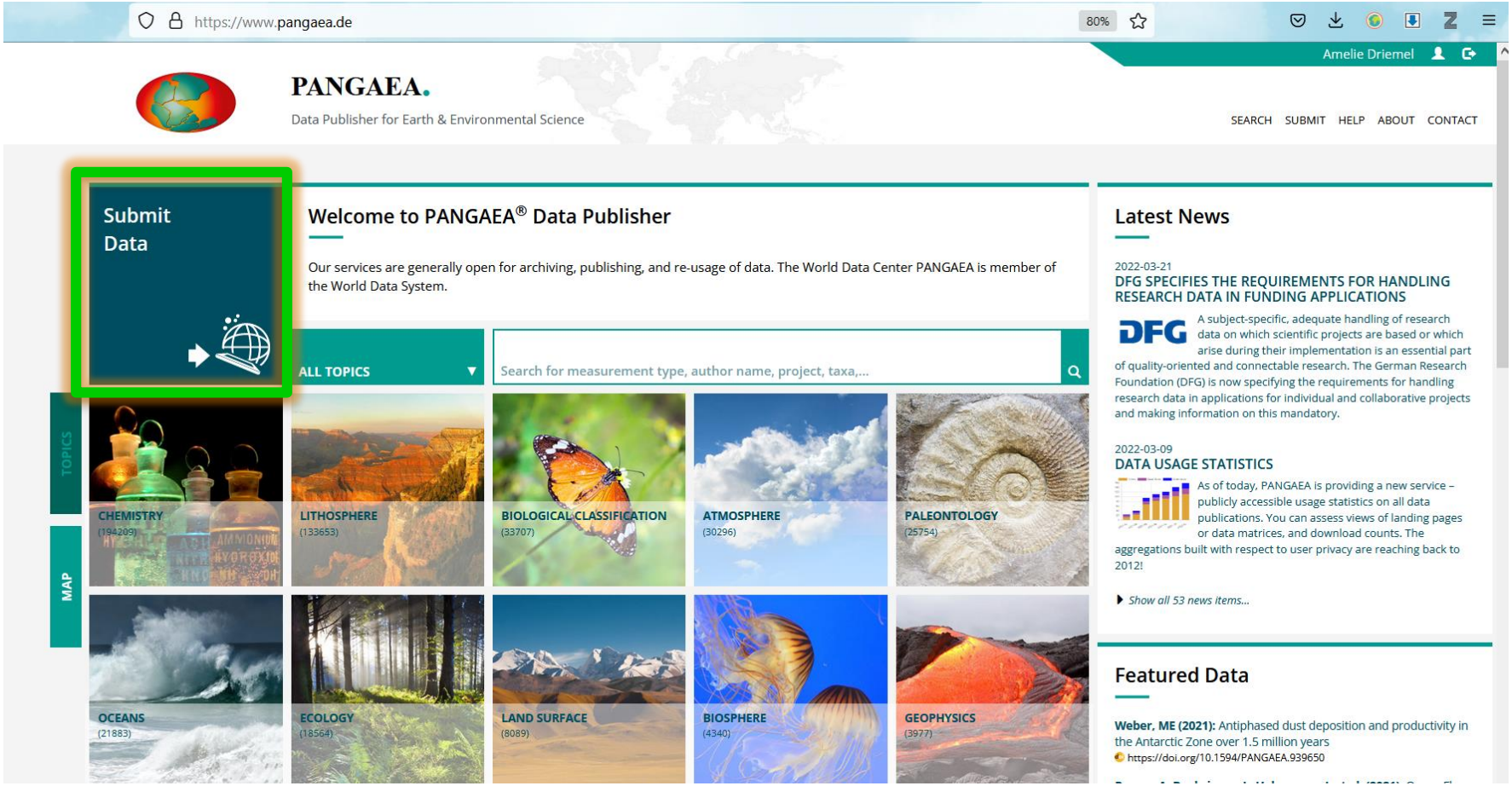
	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Lineanierung von Pt100				a=	0,0039083			p=	5,67E-06			
2	Bereich: -200<t<0				b=	-5,775E-07			q=	-0,00249844			
3		a=	0,00407		c=	-4,183E-12			r=	0,22936416			
4	T in Grad Cel	R(Pt100)	T(0.Ordnung)	diff-0	T(korr)	diff(korr)	diff^2		s=	-3,6222			
5		-200	18,52008	-200,196364	-0,196364	-200,00106	-0,00106	1,1236E-06					
6		-190	22,8254803	-189,617985	0,382015	-189,996838	0,003162	9,9982E-06					
7		-180	27,0964328	-179,124244	0,875756	-179,995353	0,004647	2,1595E-05					
8		-170	31,3360459	-168,709961	1,290039	-169,996093	0,003907	1,5265E-05					
9		-160	35,5433272	-158,370203	1,629797	-159,998509	0,001491	2,2231E-06					
10		-150	39,7231844	-148,100284	1,899716	-150,002037	-0,002037	4,1494E-06					
11		-140	43,8764244	-137,895763	2,104237	-140,006123	-0,006123	3,7491E-05					
12		-130	48,0047538	-127,752448	2,247552	-130,010243	-0,010243	0,00010492					
13		-120	52,1097791	-117,66639	2,33361	-120,01393	-0,01393	0,00019404					
14		-110	56,193006	-107,633892	2,366108	-110,016782	-0,016782	0,00028164					
15		-100	60,25584	-97,6514988	2,3485012	-100,018492	-0,018492	0,00034195					
16		-90	64,2995863	-87,7160043	2,2839957	-90,0188552	-0,0188552	0,00035552					
17		-80	68,3254495	-77,8244485	2,1755515	-80,0177867	-0,0177867	0,00031637					
18		-70	72,3345339	-67,9741181	2,0258819	-70,015337	-0,015337	0,00023522					
19		-60	76,3278436	-58,1625466	1,8374534	-60,0117033	-0,0117033	0,00013697					
20		-50	80,3062819	-48,3875138	1,6124862	-50,0072415	-0,0072415	5,2439E-05					
21		-40	84,270652	-38,6470466	1,3529534	-40,0024769	-0,0024769	6,135E-06					
22		-30	88,2216568	-28,9394183	1,0605817	-29,9981138	0,0018862	3,5578E-06					
23		-20	92,1598984	-19,2631488	0,7368512	-19,9950444	0,0049556	2,4558E-05					
24		-10	96,0858579	-9,61700495	0,38299505	-9,99435625	0,00564375	3,1852E-05					
25		0	100	0	0	0,0026603	0,0026603	7,0772E-06					
26								0,00218413					

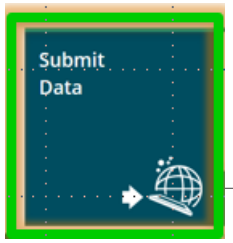




https://wiki.pangaea.de/wiki/Data_submission

Data submission: www.pangaea.de





Data submission form

https://www.pangaea.de/submit/generic/ 80%

Amelie Driemel

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Data Publisher for Earth & Environmental Science

SEARCH SUBMIT HELP ABOUT CONTACT

1 Basics 2 References 3 Projects and Grants 4 Upload 5 Submit

Basic Information

Title*

Title max length: 200 chars

The title should ideally reflect what has been measured, observed, or calculated, when, where, and how.

Authors*

Driemel | Amelie | amelie.driemel@awi.de | Website

+ Add author

Please, enter the author(s) (the principal investigators) for the data set(s) you want to submit.

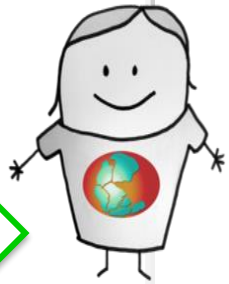
Keywords

diatom; ice core; Antarctica; south westerly wind;

Press 'Enter' to create a keyword.

Abstract/Describe your Data*

Submit



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Data Curator

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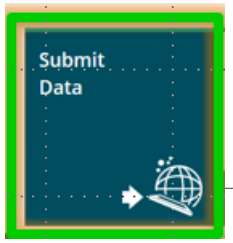
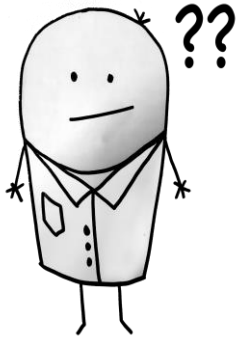
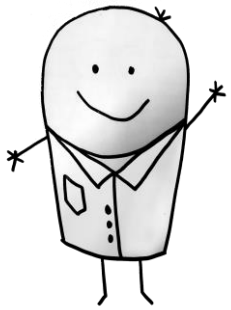


Data submission process



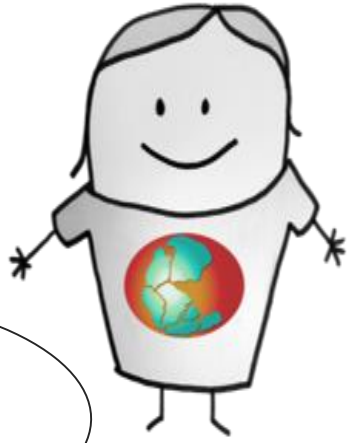
Did I do it right??

Looks good, but units … are missing ;)

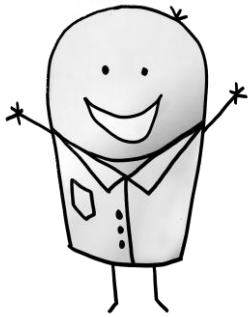


Oops, ok will upload a new version

The new version looks very good!



I uploaded your data, please proof-read at …



Great, looks good, please keep moratorium until…

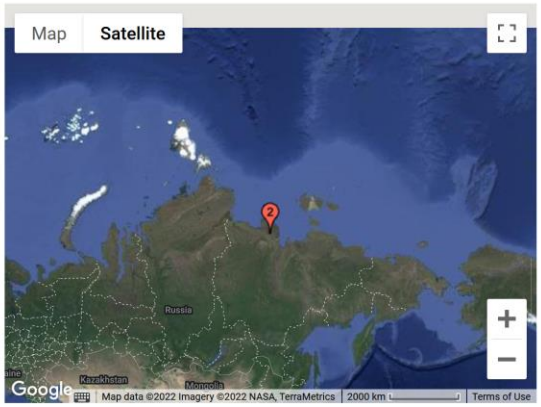
Citation:

Cable, William L; Tautz, Frieder; Schreiber, Peter; Martin, Julia; Lange, Stephan; Boike, Julia (2020): Snow depth measurements collected 2019-04-06 with a magnetic snow depth probe: Samoylov transect, west to east, western half. *PANGAEA*, https://doi.org/10.1594/PANGAEA.920816,

In: Cable, WL et al. (2020): Lena Delta 2019 Magnetic Snow Depth Probe data. *PANGAEA*, https://doi.org/10.1594/PANGAEA.920716

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

RIS Citation | BibTeX Citation | Copy Citation | Facebook | Twitter | Show Map | Google Earth | 3



Keyword(s): GNSS; GPS; snow depth

Further details:
Dataset description
Overview of all measurement points: transect 20190406 (image in png format)

Project(s):
Modular Observation Solutions for Earth Systems (MOSES)
Permafrost Research (AWI_Perma)

Coverage:
Median Latitude: 72.374293 * *Median Longitude:* 126.473603 * *South-bound Latitude:* 72.370873 * *West-bound Longitude:* 126.450867 * *North-bound Latitude:* 72.375130 * *East-bound Longitude:* 126.487511
Date/Time Start: 2019-04-06T07:47:00 * *Date/Time End:* 2019-04-06T09:53:00
Minimum ELEVATION: -6.7 m a.s.l. * *Maximum ELEVATION:* 12.9 m a.s.l.

Event(s):
Lena2019_mSDP_20190406 * *Latitude Start:* 72.374649 * *Longitude Start:* 126.450867 * *Latitude End:* 72.370873 * *Longitude End:* 126.476906 * *Date/Time Start:* 2019-04-06T07:47:00 * *Date/Time End:* 2019-04-06T09:53:00 * *Elevation Start:* -5.1 m * *Elevation End:* 10.5 m * *Campaign:* RU-Land_2019_Lena (Lena 2019) * *Basis:* AWI Arctic Land Expedition

Parameter(s):

#	Name	Short Name	Unit	Principal Investigator	Method/Device	Comment
1	DATE/TIME	Date/Time		Cable, William L	GNSS Receiver (GNSS)	Geocode – UTC
2	LATITUDE	Latitude		Cable, William L	GNSS Receiver (GNSS)	Geocode – degrees
3	LONGITUDE	Longitude		Cable, William L	GNSS Receiver (GNSS)	Geocode – degrees
4	ELEVATION	Elevation	m a.s.l.	Cable, William L	GNSS Receiver (GNSS)	Geocode
5	Latitude, error	Latitude e	m	Cable, William L	GNSS Receiver (GNSS)	
6	Longitude, error	Longitude e	m	Cable, William L	GNSS Receiver (GNSS)	
7	Elevation, error	Elevation e	m	Cable, William L	GNSS Receiver (GNSS)	
8	Snow depth	Snow depth	cm	Cable, William L	Magnetic snow depth probe (mSDP)	

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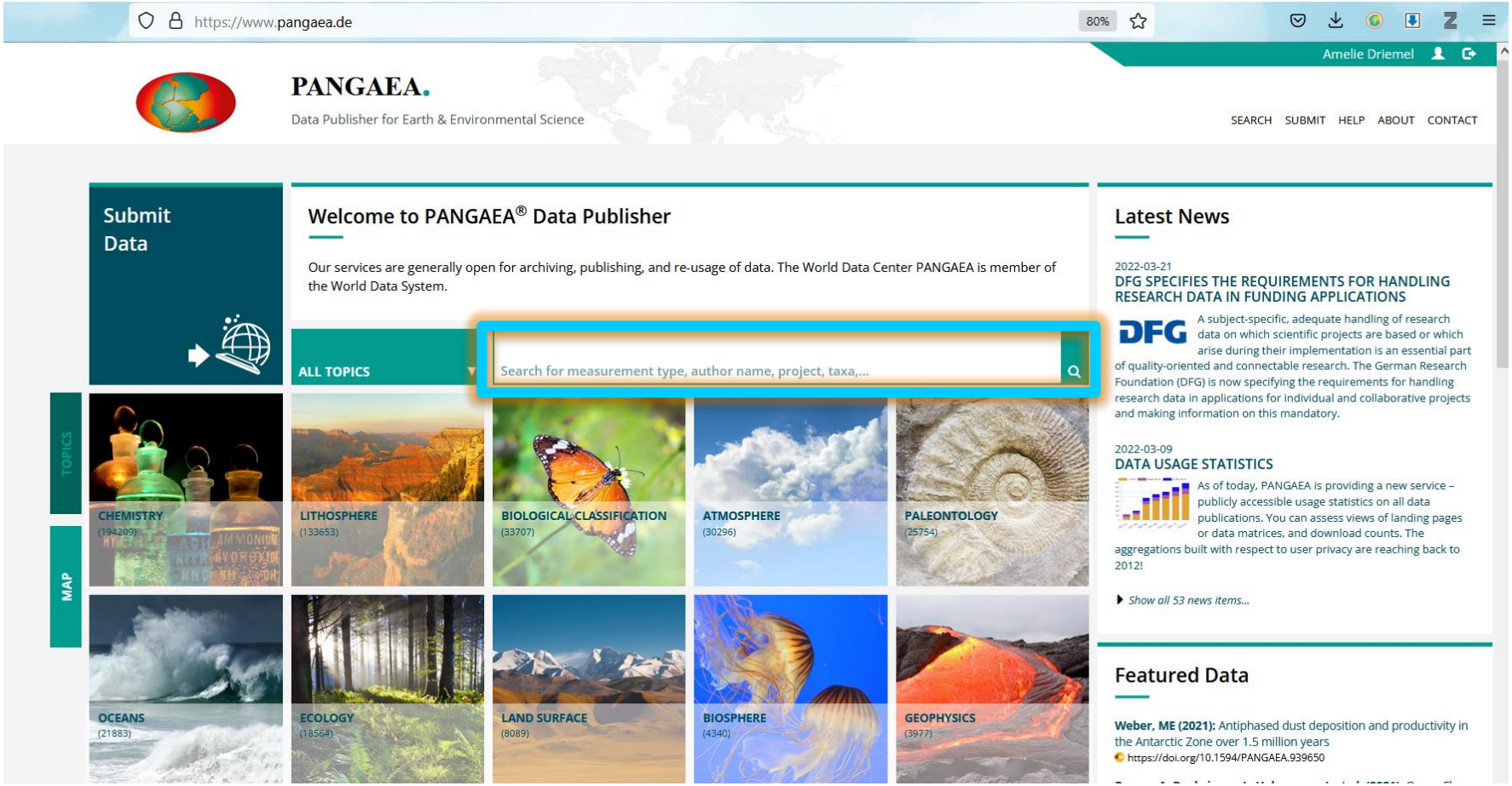
Size: 716 data points

Download Data

Download dataset as tab-delimited text — *use the following character encoding:* UTF-8: Unicode (PANGAEA default)

View dataset as HTML

Data search: www.pangaea.de



Search for data

https://www.pangaea.de/?q=%40INTERACT 80%

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ALL TOPICS | @INTERACT | SEARCH | SUBMIT | HELP | ABOUT | CONTACT

Filter by...

- Dataset Author
- Dataset Publication Year
- Topic
- Project
- Basis
- Method/Device
- Campaign
- Location

437 datasets found on search for »@INTERACT«

< 1 2 3 4 5 6 7 8 9 10 >

SHOW MAP | GOOGLE EARTH | DATA WAREHOUSE

1. **Muster, S; Langer, M; Heim, B et al. (2012):** Land cover classification of Samoylov Island and Landsat subpixel water cover of Lena River Delta, Siberia, with links to ESRI grid files
   Supplement to: **Muster, S; Langer, M; Heim, B et al. (2012):** Subpixel heterogeneity of ice-wedge polygonal tundra: a multi-scale analysis of land cover and evapotranspiration in the Lena River Delta, Siberia. *Tellus Series B-Chemical and Physical Meteorology*
   Size: 2 datasets
   https://doi.org/10.1594/PANGAEA.786927 - Score: 1.8

2. **Fedorova, IV; Bolshiyanov, DY; Chetverova, A et al. (2013):** Measured water discharges, suspended supply and morphometric parameters of cross-sections in the Lena River Delta during summer period 2002-2012
   Size: 9 datasets
   https://doi.org/10.1594/PANGAEA.808854 - Score: 1.8

3. **Boike, J; Nitzbon, J; Anders, K et al. (2018):** Measurements in soil and air at Samoylov Station (2002-2018)
   Supplement to: **Boike, J; Nitzbon, J; Anders, K et al. (2019):** A 16-year record (2002–2017) of permafrost, active-layer, and meteorological conditions at the Samoylov Island Arctic permafrost research site, Lena River delta, northern Siberia: an opportunity to validate remote-sensing data and land surface, snow, and permafrost models. *Earth System Science Data*
   Related to: **Boike, J; Nitzbon, J; Anders, K et al. (2018):** Time lapse camera pictures at Samoylov, LTO, 2002-2017. *Alfred Wegener Institute - Research Unit Potsdam*
   Boike, J; Nitzbon, J; Anders, K et al. (2018): TLS measurements at Samoylov in 2017, link to pointsclouds and DEM. *Alfred Wegener Institute - Research Unit Potsdam*
   Size: 5 datasets
   https://doi.org/10.1594/PANGAEA.891142 - Score: 1.8

4. **Abnizova, A; Siemens, J; Langer, M et al. (2012):** Hydrochemistry, water level, and discharge of water from Samoylov Island, Lena Delta, northeastern Siberia, in 2008
   Supplement to: **Abnizova, A; Siemens, J; Langer, M et al. (2012):** Small ponds with major impact: The relevance of ponds and lakes in permafrost landscapes to carbon dioxide emissions. *Global Biogeochemical Cycles*
   Size: 7 datasets

Map | Satellite

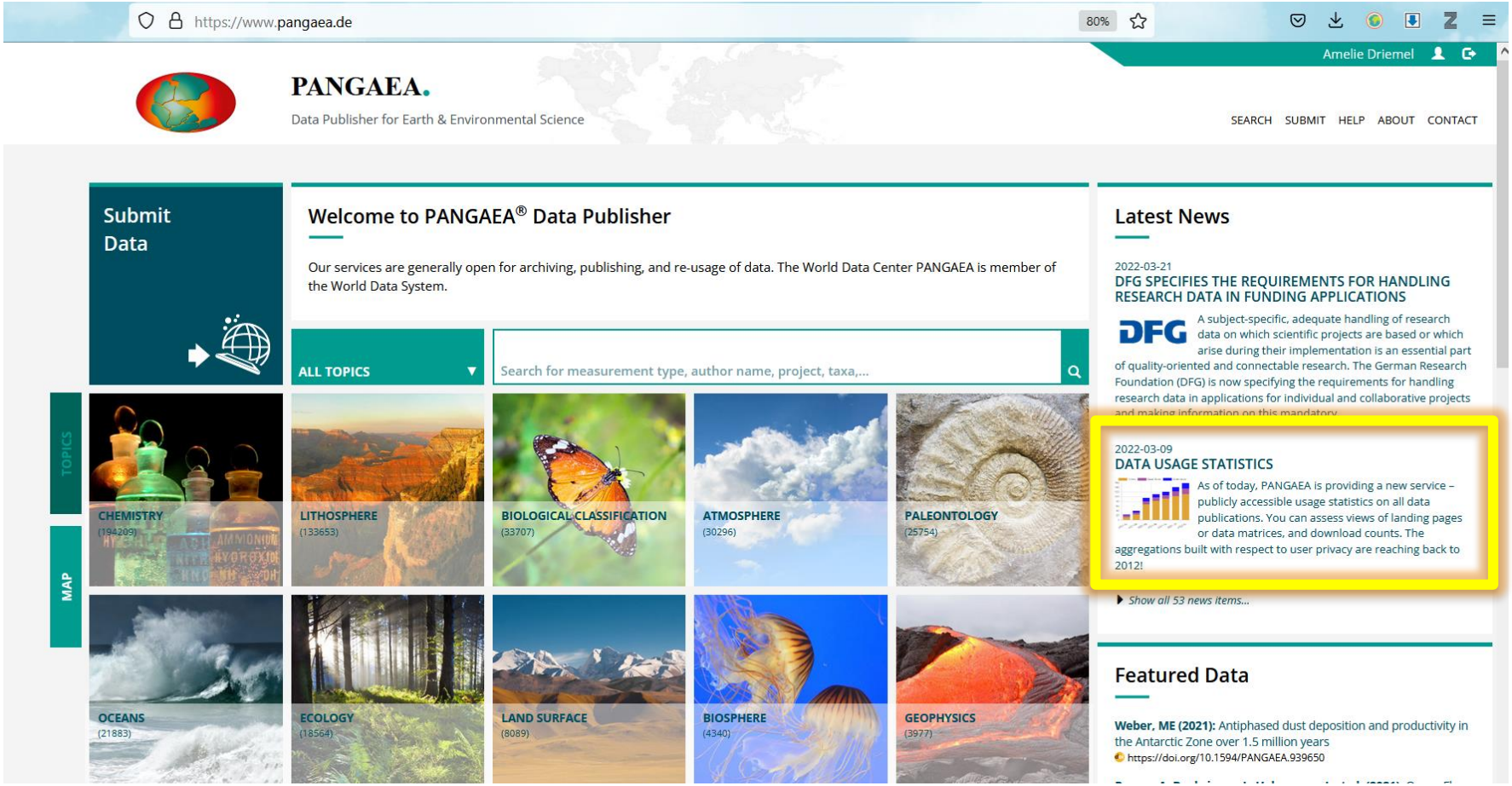
Google | Map data ©2022 Imagery ©2022 NASA | 1000 km | Terms of Use

To create a new geographic search coverage, use the buttons and input fields to enter coordinates below. The GPS button *(top-left of wind rose)* selects the area around your current location. For using the map, select the viewport button *(top-right of wind rose)* and drag or zoom the bounding rectangle on its borders. You can also select a date range by entering a start/end date. Press "Apply" to restrict current search results!

N | W | E | S | Clear | Apply

https://wiki.pangaea.de/wiki/PANGAEA_search

New feature


https://www.pangaea.de
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ECOLOGY (18564)
LAND SURFACE (8089)
BIOSPHERE (4340)
GEOPHYSICS (3977)
Latest News
2022-03-21
DFG SPECIFIES THE REQUIREMENTS FOR HANDLING RESEARCH DATA IN FUNDING APPLICATIONS
DFG
A subject-specific, adequate handling of research data on which scientific projects are based or which arise during their implementation is an essential part of quality-oriented and connectable research. The German Research Foundation (DFG) is now specifying the requirements for handling research data in applications for individual and collaborative projects
2022-03-09
DATA USAGE STATISTICS
As of today, PANGAEA is providing a new service – publicly accessible usage statistics on all data publications. You can assess views of landing pages or data matrices, and download counts. The aggregations built with respect to user privacy are reaching back to 2012!
Show all 53 news items...
Featured Data
Weber, ME (2021): Antiphased dust deposition and productivity in the Antarctic Zone over 1.5 million years
https://doi.org/10.1594/PANGAEA.939650

NEW: Data usage statistics

https://doi.pangaea.de/10.1594/PANGAEA.905236 80%

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Citation:

Boike, Julia; Nitzbon, Jan; Anders, Katharina; Grigoriev, Mikhail N; Bolshiyanov, Dimitry Yu; Langer, Moritz; Lange, Stephan; Bornemann, Niko; Morgenstern, Anne; Schreiber, Peter; Wille, Christian; Chadburn, Sarah; Gouttevin, Isabelle; Kutzbach, Lars (2019): Measurements in soil and air at Samoylov Station (2002-2018), version 201908. *Alfred Wegener Institute - Research Unit Potsdam, PANGAEA,* https://doi.org/10.1594/PANGAEA.905236

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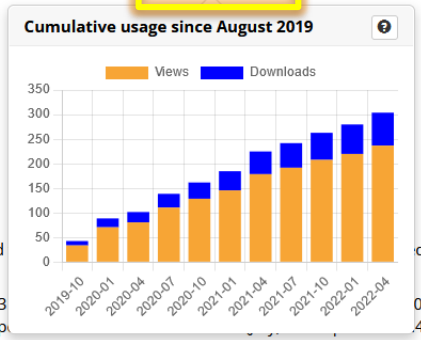

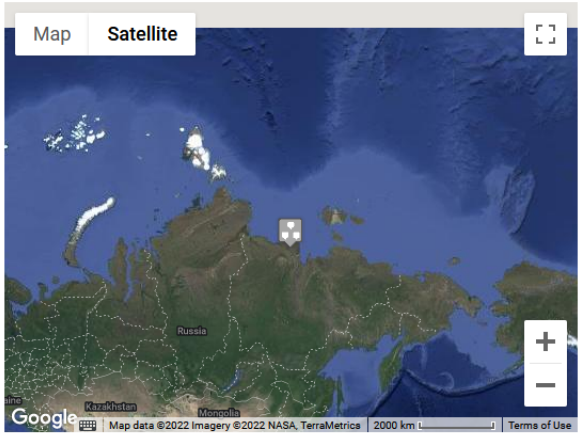

Abstract:

This data set includes meteorological, soil, permafrost data obtained d in the Lena River Delta, Siberia, between 1998 to 2018. The instrumentation, calibration, proccessing and data quality control is explained in Boike et al. (2018).

The mean annual air temperature 1998–2017 was calculated as -12.3 003, 2005, 2006, 2009, 2010). Including only years with full data records (1999, 2004, 2007-2017), the mean annual air temperature is -11.7 °C. Similarly, the mean monthly temp .4 °C (average of years 1999, 2004, 2005, 2007, 2008, 2011-2017) and for the coldest month (February) -31.7 °C (average of months of 1999, 2000, 2004, 2005, 2007, 2008, 2011-2017). The average summer rainfall (June-October) was 145.2 mm (average of years 1999, 2003–2008, 2011-2017).

This is a new version of dataset:

Boike, Julia; Nitzbon, Jan; Anders, Katharina; Grigoriev, Mikhail N; Bolshiyanov, Dimitry Yu; Langer, Moritz; Lange, Stephan; Bornemann, Niko; Morgenstern, Anne; Schreiber, Peter; Wille, Christian; Chadburn, Sarah; Gouttevin, Isabelle; Kutzbach, Lars (2018): Measurements in soil and air at Samoylov Station (2002-2018). PANGAEA, https://doi.org/10.1594/PANGAEA.891142.

Keyword(s):

dataset; LTO; Meteorologic; Samoylov; Soil

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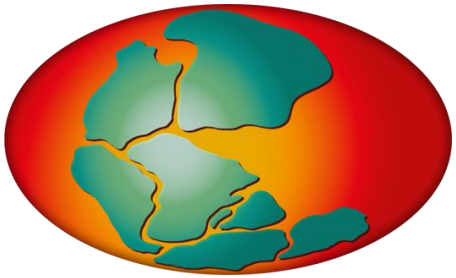
Thanks!



http://www.pangaea.de/submit/

Questions?

E-Mail to: amelie.driemel@awi.de