

WP10 – Project management: Data management



PANGAEA® Data Publisher for Earth & Environmental Science

Amelie Driemel, Hannes Grobe, Stefanie Schumacher, Rainer Sieger
SponGES Kick-off Meeting, Bergen, 20.04.2016

Don't lose your data ...



Technology | Mon Jul 20, 2009 6:15pm EDT

Moon landing tapes got erased, NASA admits

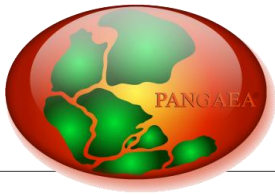
WASHINGTON | BY MAGGIE FOX, HEALTH AND SCIENCE EDITOR

NASA admitted in 2006 that no one could find the original video recordings of the July 20, 1969, landing.

Since then, Richard Nafzger, an engineer at NASA's Goddard Space Flight Center in Maryland, who oversaw television processing at the ground-tracking sites during the Apollo 11 mission, has been looking for them.

The good news is he found where they went. The bad news is they were part of a batch of 200,000 tapes that were degaussed -- magnetically erased -- and re-used to save money.

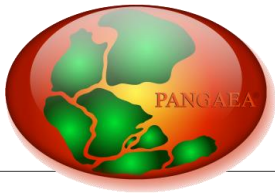
<http://www.reuters.com/article/us-nasa-tapes-idUSTRE56F5MK20090720>



What is PANGAEA®?



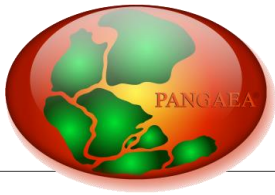
- PANGAEA is an **open access** Data Library for **earth system research data**



What is PANGAEA®?



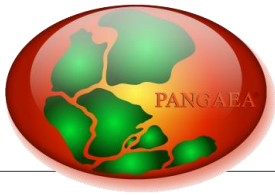
- PANGAEA is an open access Data Library for earth system research data
- Data are stored **georeferenced** in space and time in a relational database and a tape archive



What is PANGAEA®?



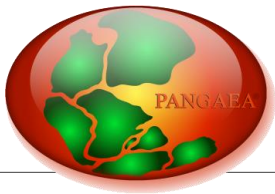
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- Data are stored **georeferenced** in space and time in a relational database and a tape archive
- Datasets get a **citable and permanent DOI**



What is PANGAEA®?



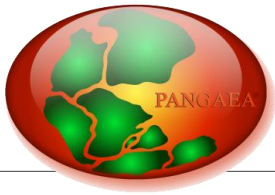
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- The data can be found via **internet searches** (e.g. google) and can be **directly downloaded** (*)



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What is PANGAEA®?



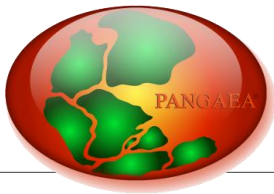
- PANGAEA is an **open access** Data Library for **earth system research data**
- Data are stored **georeferenced** in space and time in a relational database and a tape archive
- Datasets get a **citable and permanent DOI**
- The data can be found via **internet searches** (e.g. google) and can be **directly downloaded** (*)
- Datasets can be tagged with a **project label** which facilitates the search for and documentation of project-related data



Hosts of PANGAEA



Both institutions have committed to the long-term operation of PANGAEA



The PANGAEA Data model

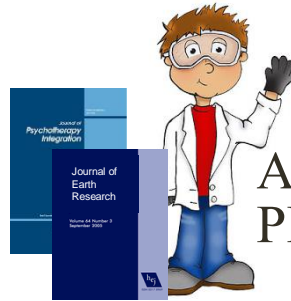


What?



Parameter [unit]

Who?



Author(s),
PI, Article

Where?



Latitude/Longitude
Depth in ice, water,
sediment; Altitude...

When?



Date,
Age...

How?



Method

Data types:

Label	Mineral	No	SiO2 [%]	TO2 [%]	Al2O3 [%]	Cr2O3 [%]
WG216	Garnet	12	40.45	0.05	22.54	0.36
rim						
WG216	Garnet	12	40.64	0.03	22.56	0.38
core						
WG218	Garnet	12	39.97	0.21	22.10	0.51
rim						
WG218	Garnet	12	40.14	0.07	22.28	0.59
core						
WG240	Garnet	12	40.65	0.08	22.18	0.33
WG240	Garnet	12	39.95	0.05	21.98	0.38
WG240A	Garnet	12	41.29	0.00	23.16	0.22
WG240A	Garnet	12	41.04	0.05	23.27	0.14
WG232	Garnet	12	39.91	0.02	22.50	0.02
rim						
WG232	Garnet	12	39.43	0.06	22.26	0.04
core						








Data Description

Show Map Google Earth



Citation: Freese, Daniela; Schewe, Ingo (2012): Meiobenthic taxon counts from deep-sea in situ recolonization experiment I deployed at station PS64/474-1 during ARK-XIX/3c. *Alfred Wegener Institute, Helmholtz Center for Polar and Marine Research, Bremerhaven*, doi:10.1594/PANGAEA.785294,
In Supplement to: Freese, Daniela; Schewe, Ingo; Kanzog, Corinna; Soltwedel, Thomas; Klages, Michael (2012): Recolonisation of new habitats by meiobenthic organisms in the deep Arctic Ocean: an experimental approach. *Polar Biology*, **35**(12), 1801-1813, doi:10.1007/s00300-012-1223-2



Project(s): Hotspot Ecosystem Research and Mans Impact On European Seas (HERMIONE) [↗](#)
Long-term Investigation at AWI-Hausgarten off Svalbard (Hausgarten) [↗](#)

Coverage: Latitude: 79.056400 * Longitude: 4.313800
Date/Time Start: 2003-08-03T00:00:00 * Date/Time End: 2003-08-03T18:42:00
Minimum DEPTH, sediment/rock: 0.005 m * Maximum DEPTH, sediment/rock: 0.005 m



Event(s): PS64/474-1 [↗](#) * Latitude: 79.056400 * Longitude: 4.313800 * Date/Time Start: 2003-08-03T18:42:00 * Date/Time End: 2003-08-03T00:00:00 * Elevation: -2432.0 m * Location: North Greenland Sea [↗](#) * Campaign: ARK-XIX/3c (PS64) [↗](#) * Basis: Polarstern [↗](#) * Device: Sediment tray free vehicle (STFV) [↗](#)

Comment: Results derive from meiobenthic investigations of artificial sediments deployed in containers at the deep-sea floor. Meiobenthic densities of five size classes are given in relation to a sediment volume of 3.24/cm**3.

Parameter(s):

#	Name	Short Name	Unit	Principal Investigator	Method	Comment
1	DEPTH, sediment/rock ↗	Depth	m			Geocode
2	Sample code/label ↗	Label		Schewe, Ingo ↗		
3	Substrate type ↗	Substrate		Schewe, Ingo ↗		
4	Food ↗	Food		Schewe, Ingo ↗		
5	Mesh size ↗	Mesh s	µm	Schewe, Ingo ↗	Wet sieving ↗	
6	Bolivina sp. ↗	Bolivina sp.	#	Schewe, Ingo ↗	Counting, experiment ↗	
7	Buliminella sp. ↗	Buliminella sp.	#	Schewe, Ingo ↗	Counting, experiment ↗	
8	Epistominella sp. ↗	Epistominella sp.	#	Schewe, Ingo ↗	Counting, experiment ↗	
9	Ioannella sp. ↗	Ioannella sp.	#	Schewe, Ingo ↗	Counting, experiment ↗	
10	Lagena sp. ↗	Lagena sp.	#	Schewe, Ingo ↗	Counting, experiment ↗	
11	Oolina sp. ↗	Oolina sp.	#	Schewe, Ingo ↗	Counting, experiment ↗	
12	Triloculina sp. ↗	Triloculina sp.	#	Schewe, Ingo ↗	Counting, experiment ↗	
13	Discorbinellidae indeterminata ↗	Discorbinellidae indet	#	Schewe, Ingo ↗	Counting, experiment ↗	
14	Foraminifera, benthic calcareous ↗	Foram bent calc	#	Schewe, Ingo ↗	Counting, experiment ↗	indeterminata
15	Adercotryma sp. ↗	Adercotryma sp.	#	Schewe, Ingo ↗	Counting, experiment ↗	
16	Lagenammina sp. ↗	Lagenammina sp.	#	Schewe, Ingo ↗	Counting, experiment ↗	
17	Reophax sp. ↗	Reophax sp.	#	Schewe, Ingo ↗	Counting, experiment ↗	
18	Foraminifera, benthic agglutinated ↗	Foram bent agg	#	Schewe, Ingo ↗	Counting, experiment ↗	indeterminata
19	Foraminifera, chitineous ↗	Chit.For	#	Schewe, Ingo ↗	Counting, experiment ↗	indeterminata
20	Nematoda ↗	Nematoda	#	Schewe, Ingo ↗	Counting, experiment ↗	
21	Harpacticoida ↗	Harpacticoida	#	Schewe, Ingo ↗	Counting, experiment ↗	
22	Nauplii ↗	Nauplii	#	Schewe, Ingo ↗	Counting, experiment ↗	
23	Gastrotricha ↗	Gastrotricha	#	Schewe, Ingo ↗	Counting, experiment ↗	
24	Polychaeta ↗	Polychaeta	#	Schewe, Ingo ↗	Counting, experiment ↗	
25	Bivalvia ↗	Bivalvia	#	Schewe, Ingo ↗	Counting, experiment ↗	

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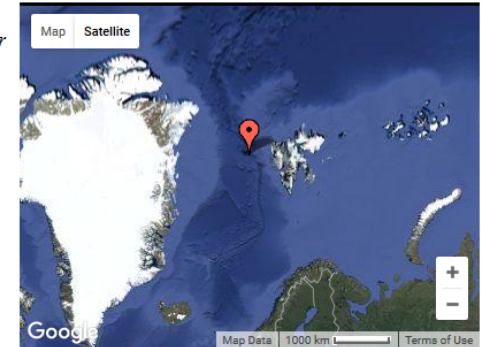
Size: 505 data points



Download Data

Download dataset as tab-delimited text (use the following character encoding: UTF-8: Unicode (PANGAEA default) [↕](#))

[View dataset as HTML](#)



Data

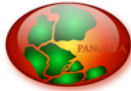
Download dataset as tab-delimited text (use the following character encoding:)

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	10 <input type="checkbox"/>	11 <input type="checkbox"/>	12 <input type="checkbox"/>	13 <input type="checkbox"/>
Event	Sample ID	Habitat	Depth [m]	Amphipoda [#]	Bivalvia [#]	Cumacea [#]	Gastropoda [#]	Gastrotricha [#]	Harpacticoida [#]	Hydrozoa [#]	Kinorhyncha [#]	Loricifer:
VKGD272/PC-14 <input type="checkbox"/>	Dive 272-02/14	Siboglinidae	0.005	2	10	0	0	0	137	0	0	
VKGD272/PC-18 <input type="checkbox"/>	Dive 272-02/18	Siboglinidae	0.005	5	15	0	0	1	286	0	2	
VKGD272/PC-1 <input type="checkbox"/>	Dive 272-02/1	reduced sediments	0.005	0	0	0	0	0	12	0	0	
VKGD272/PC-8 <input type="checkbox"/>	Dive 272-02/8	reduced sediments	0.005	0	0	0	0	0	5	0	0	
VKGMTB3 <input type="checkbox"/>	MT3 A	background site	0.005	0	4	0	0	0	40	2	0	
VKGMTB3	MT3 B	background site	0.005	0	1	0	0	0	51	0	0	

Data

Download dataset as tab-delimited text (use the following character encoding:)

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	10 <input type="checkbox"/>	11 <input type="checkbox"/>	12 <input type="checkbox"/>
Event	Date/Time	Latitude	Longitude	Elevation [m]	Depth water [m]	Press [dbar]	Temp [°C]	Tpot [°C]	Sal	Sigma-theta [kg/m ³]	OXYGEN [μmol/kg]
M82/2_513-1 <input type="checkbox"/>	2010-08-06T09:13	47.0995	-47.2663	-480	0.0	0	11.8475	11.8475	32.1096	24.3733	280.8
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	1.0	1	11.8475	11.8474	32.1096	24.3733	280.8
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	2.0	2	11.8475	11.8473	32.1096	24.3733	280.8
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	3.0	3	11.8475	11.8472	32.1096	24.3733	280.8
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	4.0	4	11.8475	11.8470	32.1096	24.3733	280.8
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	5.0	5	11.8475	11.8469	32.1096	24.3734	280.8
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	6.0	6	11.8148	11.8140	32.1134	24.3824	280.7
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	6.9	7	11.6974	11.6966	32.1249	24.4128	281.1
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	7.9	8	11.6562	11.6552	32.1246	24.4200	282.3
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	8.9	9	11.6216	11.6205	32.1229	24.4251	282.3
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	9.9	10	11.5541	11.5529	32.1264	24.4400	282.1
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	10.9	11	11.4872	11.4859	32.1292	24.4544	283.3
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	11.9	12	11.3816	11.3802	32.1399	24.4816	284.2
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	12.9	13	11.1195	11.1180	32.1808	24.5600	284.9
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	13.9	14	10.8305	10.8289	32.2171	24.6390	286.6
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	14.9	15	10.6842	10.6825	32.2300	24.6745	288.9
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	15.9	16	10.5507	10.5489	32.2363	24.7023	290.3
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	16.8	17	10.3449	10.3429	32.2453	24.7443	290.8
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	17.8	18	10.1740	10.1720	32.2561	24.7815	293.2
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	18.8	19	9.9613	9.9592	32.2691	24.8268	295.7
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	19.8	20	9.6731	9.6709	32.3001	24.8982	297.0
M82/2_513-1	2010-08-06T09:13	47.0995	-47.2663	-480	20.8	21	9.0373	9.0351	32.3767	25.0577	300.8



Always quote citation when using data!

Data Description

Show Map Google Earth

Citation: Cheng, C et al. (2015): Taxonomic identification, anti-trypanosomal activity, and metabolomics analyses of Mediterranean marine sponge associated actinomycetes. doi:10.1594/PANGAEA.855491, *In Supplement to: Cheng, Cheng; MacIntyre, Lynsey; Abdelmohsen, Usama Ramadan; Horn, Hannes; Polymenakou, Paraskevi; Edrada-Ebel, RuAngelie; Hentschel, Ute (2015): Biodiversity, Anti-Trypanosomal Activity Screening, and Metabolomic Profiling of Actinomycetes Isolated from Mediterranean Sponges. PLoS ONE, 10(9), e0138528, doi:10.1371/journal.pone.0138528*

Coverage: Median Latitude: 36.120000 * Median Longitude: 24.325000 * South-bound Latitude: 35.470000 * West-bound Longitude: 24.130000 * North-bound Latitude: 36.770000 * East-bound Longitude: 24.520000

Date/Time Start: 2013-05-29T00:00:00 * Date/Time End: 2013-11-08T00:00:00

Minimum Elevation: -28.0 m * Maximum Elevation: -3.0 m

Event(s): **Crete_112013** (Sponge Crete Collection) * Latitude: 35.470000 * Longitude: 24.130000 * Date/Time: 2013-11-08T00:00:00 * Elevation Start: -3.0 m * Elevation End: -28.0 m * Device: Sampling by diver (DIVER) * Comment: diver Dr. Thanos Dailianis

Milos_052013 (Sponge Milos Collection) * Latitude: 36.770000 * Longitude: 24.520000 * Date/Time: 2013-05-29T00:00:00 * Elevation Start: -5.0 m * Elevation End: -7.0 m * Device: Sampling by diver (DIVER) * Comment: diver Dr. Thanos Dailianis



Parameter(s):

#	Name	Short Name	Unit	Principal Investigator	Method	Comment
1	Event label <input type="checkbox"/>	Event		Hentschel, Ute <input type="checkbox"/>		
2	Optional event label <input type="checkbox"/>	Event 2		Hentschel, Ute <input type="checkbox"/>		
3	Date/Time of event <input type="checkbox"/>	Date/Time		Hentschel, Ute <input type="checkbox"/>		
4	Latitude of event <input type="checkbox"/>	Latitude		Hentschel, Ute <input type="checkbox"/>		
5	Longitude of event <input type="checkbox"/>	Longitude		Hentschel, Ute <input type="checkbox"/>		
6	Comment of event <input type="checkbox"/>	Comment		Hentschel, Ute <input type="checkbox"/>		
7	File size <input type="checkbox"/>	File size	kByte	Hentschel, Ute <input type="checkbox"/>		
8	Uniform resource locator/link to file <input type="checkbox"/>	URL file		Hentschel, Ute <input type="checkbox"/>		

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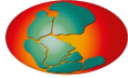
Size: 4 data points

Data

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

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>
Event	Event 2	Date/Time	Latitude	Longitude	Comment	File size [kByte]	URL file
Milos_052013 <input type="checkbox"/>	Sponge Milos Collection	2013-05-29	36.77	24.52	diver Dr. Thanos Dailianis	4300	hdl:10013/epic.46409.d001
Crete_112013 <input type="checkbox"/>	Sponge Crete Collection	2013-11-08	35.47	24.13	diver Dr. Thanos Dailianis	230	hdl:10013/epic.46409.d002

Contact



EU Projects

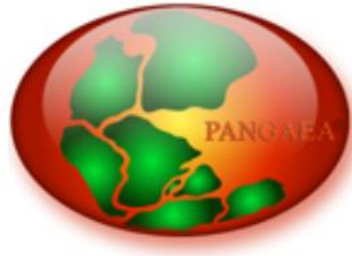
ACES	Atlantic Coral Ecosystem Study	André Freiwald	Data
ADEPD	Atlantic Data Base for Exchange Processes at the Deep Sea Floor	Karin Lochte	Data
ASOF-N	Arctic-Subarctic Ocean Flux Array for European Climate: North	Eberhard Fahrbach	Data
ASSEMBLAGE	Assessment of the Black Sea Sedimentary System since the last Glacial Extreme	Gilles Lericolais	Data
BALTIC-GAS	Methane emission in the Baltic Sea	Bo Barker Jørgensen	Data
BASYS	Baltic Sea System Study	Bodo von Bodungen	Data
BENGAL	Benthic Biology and Geochemistry of a North-eastern Atlantic Abyssal Locality	Anthony L Rice	Data
BIOGEST	Biogas Transfer in Estuaries		Data
BOFS	Biogeochemical Ocean Flux Study		Data
CARBOCHANGE	Changes in the carbon uptake and emissions by oceans in a changing climate	Christoph Heinze	Data
CARBOOCEAN	Marine carbon sources and sinks assessment	Christoph Heinze	Data
CAVASSOO	Carbon variability studies by ships of opportunity	Andrew J Watson	Data
CENSOR	Climate variability and El Niño Southern Oscillation	Wolf E Arntz	Data
CHEMECO	Monitoring colonisation processes in chemosynthetic ecosystems	S M Gaudron	Data
CINCS	Pelagic-benthic Coupling in the oligotrophic Cretan Sea	Anastasios Tselepidis	Data
CLIVAMP	Climatic Variability of the Mediterranean Paleo-circulation	Michel Crepon	Data
CLIWOC	Climatological Database for the Worlds Oceans: 1750-1854	Ricardo García-Herrera	Data
CoralFISH	Ecosystem based management of corals, fish and fisheries in the deep waters of Europe and beyond	Anthony J Grehan	Data
DARCLIFE	Deep subsurface Archaea: carbon cycle, life strategies, and role in sedimentary ecosystems	Kai-Uwe Hinrichs	Data
ECO2	Sub-seabed CO2 Storage: Impact on Marine Ecosystems	Klaus Wallmann	Data
ECOMOUND	Environmental controls on mound formation along the european margin	Wolf Christian Dullo	Data
ELNOX	Elemental nitrogen oxidation A new bacterial process in the nitrogen cycle	Heide N Schulz-Vogt	Data
EPICA	European Project for Ice Coring in Antarctica	Heinz Miller	Data
EPOCA	European Project on Ocean Acidification	Jean-Pierre Gattuso	Data
ERA-CLIM	European Reanalysis of Global Climate Observations	Dick P Dee	Data
ESONET	European Seafloor Observatory Network		Data
ESOP	European subpolar ocean programme : sea ice-ocean interactions		Data
ESTOC	European Station for Time-Series in the Ocean Canary Islands		Data
EUR-OCEANS	European network of excellence for Ocean Ecosystems Analysis	Paul Tréguer	Data
EURO-BASIN	Basin Scale Analysis, Synthesis and Integration (European Commission Grant Agreement 264 933)	Michael St. John	Data
EURODELTA	European Co-ordination on Mediterranean and Black Sea Prodeltas	Fabio Trincardi	Data
EuroSTRATAFORM	European Margin Strata Formation	Philip PE Weaver	Data
EUROTROPH	Nutrients cycling and the trophic status of coastal ecosystems		Data
GEOMOUND	The Mound Factory: Internal Controls	Jean Pierre Henriot	Data
GlobColour	European Node for Global Ocean Colour		Data
GreenICE	Greenland Arctic Shelf Ice and Climate Experiment	Peter Wadhams	Data
HERMES	Hotspot Ecosystem Research on the Margins of European Seas	Philip PE Weaver	Data
HERMIONE	Hotspot Ecosystem Research and Mans Impact On European Seas	Philip PE Weaver	Data
HYPOX	In situ monitoring of oxygen depletion in hypoxic ecosystems of coastal and open seas and land-locked water bodies	Antje Boetius	Data
ice2sea	ice2sea	David G Vaughan	Data
INTERREG	Invest. of new marine biol. resources in deep waters of Ionian and Aegean Seas		Data

How to submit data for PANGAEA



PANGAEA®

Data Publisher for Earth & Environmental Science



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www.pangaea.de

How to submit data for PANGAEA



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Data Publisher for Earth & Environmental Science

Sign Up

You can sign up for a user account using this form. This account can be used to access more advanced services (like our data warehouse) or access data under moratorium, or submit data using the issue tracker.

Most of the data are freely available and can be used under the terms of the license mentioned on the data set description. A few password protected data sets are under moratorium from ongoing projects. The description of each data set is always visible and includes the principle investigator (PI) who may be asked for access.

User name*:	<input type="text" value="adriemel"/>
E-mail address*:	<input type="text" value="amelie.driemel@awi.de"/>
Reenter e-mail address*:	<input type="text" value="amelie.driemel@awi.de"/>
Password*:	<input type="password" value="••••••"/>
Reenter password*:	<input type="password" value="••••••"/>
Full name*:	<input type="text" value="Amelie Driemel"/>
Institution/Affiliation:	<input type="text" value="Alfred Wegener Institut"/>
Phone:	<input type="text"/>

Captcha*:

<input type="text" value="3630"/>	→	
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Yes, I have read the [privacy policy](#) of PANGAEA (* denotes a required field in this form).

Sign Up

Create Issue

Project **PANGAEA Data Archiving & Publication**

Issue Type **Data Submission**

Summary*

The summary (subject) is used as identifier in the further communication.

Author(s)*

Please, enter the author(s) (the principal investigators) for the data set(s) you want to submit.
One author per line; example: *Smith, Joe Peter*

Title

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

Description

ABSTRACT and/or further details describing the data.

Keywords

Separate keywords by comma or semicolon.

Attachment

Drop files here to attach them
or

For larger files leave a corresponding note in the description - DATA FILE(S) ARE REQUIRED! For data submissions, read our format guide (<http://wiki.pangaea.de/wiki/Format>).

License*

General information on used licences can be found on the [Creative Commons](#) license pages. If you need help to choose the correct license for your dataset, you can use the [following page](#).

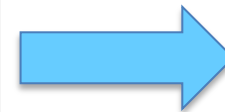
Labels

Begin typing to find and create labels or press down to select a suggested label.

Context of the data submission, e.g. PROJECT, institute, etc.



How to submit data for PANGAEA




- **add links** to the sign up/log in/project data page of PANGAEA on the SponGES website
- establish „**baseline datasets**“ (WP1) in PANGAEA, so that all WP use the same data basis
- establish a **project account for the access to SponGES data** (baseline datasets and others?)

Please keep in mind that each scientist is responsible for sending their data to PANGAEA, **we cannot force anyone to submit data!**

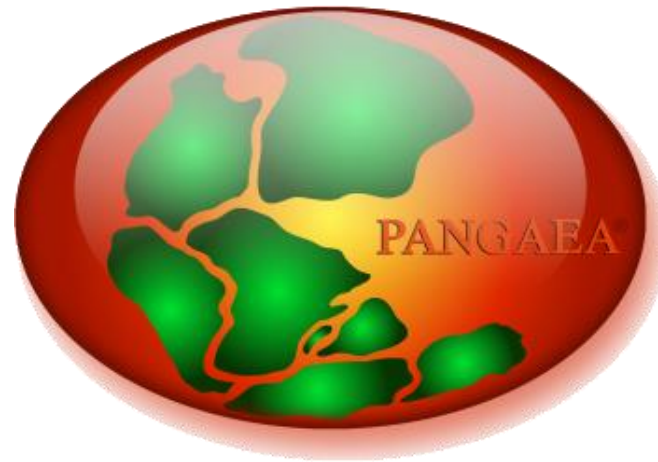
When submitting data, don't forget to mention that they belong to the **SponGES** project.

Top 5 reasons to share your research data!

- 🌐 Because your funder tells you to
- 🌐 So you can use your own data again in the future
-  Because it can improve your reputation as a researcher
- 🌐 To allow verification of results
- 🌐 Because *“The coolest thing to do with your data might be thought of by someone else”*
 - Sharing of data lead to progress on Alzheimer’s
 - Better weather forecasting through open data



Tusen takk!



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

All data welcome 😊

amelie.driemel@awi.de