



INF: Data management (part 1)



Amelie Driemel, Hannes Grobe, Stefanie Schumacher, Rainer Sieger (AC)³ General Assembly, Potsdam, 01.12.2016







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,

..., 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



...height and for the other altimetric parameters. The DEM is also a good reference for any glaciological studies in the area. It is available to researchers on the website http://www.tu-dresden.de/ipg/vostok.html.

× \ + TU Dresden **Q** Suchen ▼ 🖾 🛛 🤁 (i) https://tu-dresden.de/ipg/vostok.html 会自 Fakultäten & Einrichtungen Ø Sprache 🙆 Suche **D** Interner Bereich **TU DRESDEN** STUDIUM FORSCHUNG KARRIERE KOOPERATION Diese Seite existiert leider nicht.

doi:10.1016/j.rse.2006.02.026



Wir entschuldigen uns für die Unannehmlichkeiten, aber die Seite, auf die Sie zugreifen möchten, ist unter dieser Adresse nicht erreichbar.

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What is PANGAEA[®]?



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







- 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







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







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- 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



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What?

Parameter [unit]



Where?



Latitude/Longitude

Depth in ice/water/ sediment; Altitude...



Data types:









Data in PANGAEA - examples



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• •	ALL TOPICS Search for measurement type, author name, project, taxa, Image: Constraint of the search for measurement type, author name, project, taxa, Image: Constraint of the search for measurement type, author name, project, taxa, Image: Constraint of the search for measurement type, author name, project, taxa, Image: Constraint of the search for measurement type, author name, project, taxa, Image: Constraint of the search for measurement type, author name, project, taxa, Image: Constraint of the search for measurement type, author name, project, taxa, Image: Constraint of the search for measurement type, author name, project, taxa, Image: Constraint of the search for measurement type, author name, project, taxa, Image: Constraint of the search for measurement type, author name, project, taxa, Image: Constraint of the search for measurement type, author name, project, taxa, Image: Constraint of the search for measurement type, author name, project, taxa, Image: Constraint of taxa, Image: Constraint of tax, tax, tax, tax, tax, tax, tax, tax,	c minimalistic Google like interface we decided it was time to move to more sophisticated techniques to interact with our users. The new website offers new functionalities such as faceted searches, mobi browser support, and linking your data submissions with your ORCID ID. Try it out!
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		doi:10.1594/PANGAEA.868448 Dupont, LM; Kuhlmann, H (2016): Pollen, Fe/Ca XRF-scanning, oxygen isotopes of Globigerinoides ruber for time interval 0-250 ka analysed on sediment core Geo89311-1 Dataset #867989 Stapel, JG; Schirrmeister, L; Overduin, PP et al. (2016)
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Data in PANGAEA - examples



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Data in PANGAEA – project data





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Maturilli, Marion (2016): Radiosonde measurements from station

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Ny-Alesund (2015-12). Alfred Wegener Institute - Research Unit Potsdam, doi:10.1594/PANGAEA.863297 Always quote above citation when using data! You can download the citation in several formats below. BIBTEX Citation Text Citation 🕑 Facebook 🕑 Twitter 🕑 Google+ **RIS** Citation Show Map Google Earth God Map Data 500 km Baseline Surface Radiation Network (BSRN) Q Latitude: 78.925000 * Longitude: 11.930000 Date/Time Start: 2015-12-01T10:47:00 * Date/Time End: 2015-12-31T10:51:00 Minimum ALTITUDE: 16 m * Maximum ALTITUDE: 31573 m NYA (Ny-Ålesund) Q * Latitude: 78.925000 * Longitude: 11.930000 * Date/Time: 1992-08-01T00:00:00 * Elevation: 11.0 m * Location: # Name Short Name Unit Principal Investigator Method Comment 1 DATE/TIME Q Maturilli, Marion Q Date/Time Geocode 2 ALTITUDE Q Maturilli, Marion Q Altitude Geocode m 3 Pressure, at given altitude Q PPPP Maturilli, Marion **Q** Radiosonde, Vaisala, DigiCora 🔍 hPa 4 Temperature, air 🔍 TTT Maturilli, Marion Q Radiosonde, Vaisala, DigiCora 🝳 °C 5 Dew/frost point Q TdTdTd °C Maturilli, Marion **Q** Radiosonde, Vaisala, DigiCora 🔍 6 Wind direction Q dd deg Maturilli, Marion **Q** Radiosonde, Vaisala, DigiCora 🔍 7 Wind speed Q ff Radiosonde, Vaisala, DigiCora 🔍 m/s Maturilli, Marion Q Radiosonde, Vaisala, DigiCora 🝳 8 Ozone Q 03 mPa Maturilli, Marion Q 97392 data points Data Download dataset as tab-delimited text (use the following character encoding: UTF-8: Unicode (PANGAEA default) **-**)



Other version: Maturilli, Marion (2016): BSRN Station-to-archive file for station Ny-Alesund (2015-12). ftp://ftp.bsrn.awi.de/nya/nya1215.dat.gz 🔍

Project(s):

- Coverage:
- Event(s): Ny-Ålesund, Spitsbergen Q * Campaign: WCRP/GEWEX Q * Device: Monitoring station (MONS) Q * Comment: BSRN station no: 11; Surface type: tundra; Topography type: mountain valley, rural; Horizon: doi:10.1594/PANGAEA.669522; Station scientist: Marion.Maturilli@awi.de

Parameter(s):

Size:

Citation:

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Date/Time	Altitude [m]	PPPP [hPa]	TTT [°C]	TdTdTd [°C]	dd [deg]	ff [m/s]	O3 [mPa]
2015-12-01T10:47	16	996	0.5	-4.1	106	2	2.7
2015-12-01T10:47	61	991	0.5	-4.3	75	5	2.8
2015-12-01T10:47	102	986	0.1	-4.5	78	5	2.9

Download Data

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Data in PANGAEA: Ozone, Antarctica





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OM

Data in PANGAEA – "sea ice thickness"





GEMEINSCHAFT

Data in PANGAEA – "sea ice thickness"







Citation:

Abstract:

Parai

License:

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Reschke, Julia; Bartsch, Annett; Schlaffer, Stefan; Schepaschenko, Dmitry (2012): Wetland maps including open water extent dynamics based on ENVISAT ASAR WS for Siberia, 2007 and 2008, links to GeoTIFFs. doi:10.1594/PANGAEA.834502, *Supplement to*: Reschke, J et al. (2012): Capability of C-Band SAR for operational wetland monitoring at high latitudes. *Remote Sensing*, **4(12)**, 2923-2943, doi:10.3390/rs4102923

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between wetland type and methane emission has been investigated in various studies and utilized in climate change monitoring and modelling. For improved estimation of methane emissions, land surface models require information such as the wetland fraction and its dynamics over large areas. Existing datasets of wetland dynamics present the total amount of wetland (fraction) for each model grid cell, but do not discriminate the different wetland types like permanent lakes, periodically inundated areas or peatlands. Wetland types differently influence methane fluxes and thus their contribution to the total wetland fraction should be quantified. Especially wetlands of permafrost regions are expected to have a strong impact on future climate due to soil thawing. In this study ENIVSAT ASAR Wide Swath data was tested for operational monitoring of the distribution of areas with a long-term SW near 1 (hSW) in northern Russia (SW = degree of saturation with water, 1 = saturated), which is a specific characteristic of peatlands. For the whole northern Russia, areas with hSW were delineated and discriminated from dynamic

and open water bodies for the years 2007 and 2008. The area identified with this method amounts to approximately 300,000 km**2 in northern Siberia in 2007. It overlaps with zones of high carbon storage. Comparison with a range of related datasets (static and dynamic) showed that hSW represents not only peatlands but also temporary wetlands associated with post-forest fire conditions in permafrost regions. Annual long-term monitoring of change in boreal and tundra environments is possible with the presented approach. Sentinel-1, the successor of ENVISAT ASAR, will provide data that may allow continuous monitoring of these wetland dynamics in the future complementing global observations of wetland fraction.

Wetlands store large amounts of carbon, and depending on their status and type, they release specific amounts of methane gas to the atmosphere. The connection

 Event(s):
 TUW_ASAWS_WBO_01
 Q * Latitude: 65.000000 * Longitude: 85.000000 * Device: Satellite remote sensing (SAT)
 Q

 TUW_ASAWS_WBO_02
 Q * Latitude: 70.000000 * Longitude: 95.000000 * Device: Satellite remote sensing (SAT)
 Q

 TUW_ASAWS_WBO_03
 Q * Latitude: 72.000000 * Longitude: 107.000000 * Device: Satellite remote sensing (SAT)
 Q

Show more...

ameter(s):	#	Name	Short Name	Unit	Principal Investigator	Method	Comment
	1 🎟	Event label Q	Event				
	2 🛄	DATE/TIME Q	Date/Time				Geocode
	3 🛄	Date/time end Q	Date/time end		Bartsch, Annett Q		
	4 🔢	File name Q	File name		Bartsch, Annett Q		
5	5 🛄	File size 🔍	File size	kByte	Bartsch, Annett Q		
	6 🔢	Uniform resource locator/link to file 🝳	URL file		Bartsch, Annett Q		GeoTIFF

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Data

Download dataset as tab-delimited text (use the following character encoding: UTF-8: Unicode (PANGAEA default)					
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TUW_ASAWS_WBO_11	2007-07-01	2007-07-31	TUW_ASAWS_WBO_001_002_20070701_000001-20070731_000001_011	84990	Link
TUW_ASAWS_WBO_12 🕄	2007-07-01	2007-07-31	TUW_ASAWS_WBO_001_002_20070701_000001-20070731_000001_012	53714	Link
TUW_ASAWS_WBO_01 🕄	2007-07-01	2007-08-31	TUW_ASAWS_WBO_001_002_20070701_000001-20070831_000001_001	54190	Link
TUW_ASAWS_WBO_02	2007-07-01	2007-08-31	TUW_ASAWS_WBO_001_002_20070701_000001-20070831_000001_002	29374	Link
TUW_ASAWS_WBO_03	2007-07-01	2007-08-31	TUW_ASAWS_WBO_001_002_20070701_000001-20070831_000001_003	40012	Link
TUW_ASAWS_WBO_04	2007-07-01	2007-08-31	TUW_ASAWS_WBO_001_002_20070701_000001-20070831_000001_004	4550	Link

Other data types e.g. GeoTIFF



Size: 70 data points







How to submit data to PANGAEA



the EV13 sediment core from coastal lake Eilandvlei,

southern Cape coast, South Africa



www.pangaea.de



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southern Cape coast, South Africa

How to submit data to PANGAEA





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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

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E-mail address*:	amelie.driemel@awi.de
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Password*:	•••••
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Full name*:	Amelie Driemel
Institution/Affiliation:	AWI
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for PANGAEA			
	s) you want to submit.	Please, enter the author(s) (the principal investigators) for the data set(s) you One author per line; example: <i>Smith, Joe Peter</i>	
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			Description
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		Begin typing to find and create labels or press down to select a suggested la	Labels
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		Labels have to be one word!	
			Data used/published in the following article/manuscript
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Author(s)*	Authors of dataset		How to submit data for PANGAEA
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Title	Title of dataset The title should ideally reflect what has been measured, observed, or calculated, when, who	ere, and how.	
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	ABSTRACT and/or further details describing the data.	.4	
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Isabel Chadwick, Research Data Management Librarian at the Open University on http://www.open.ac.uk/blogs/the_orb/?p=364



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 - \rightarrow Sharing of data lead to progress on Alzheimer's
 - ightarrow Better weather forecasting through open data









Thanks!





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

All data welcome 🙂

amelie.driemel@awi.de

