Webinar: MOSAiC research data publishing

July 8th 2020, 16:30 CEST

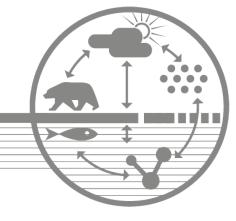
with Dana Ransby (AWI Bremerhaven)

&

PANGAEA and RZ Team

Photo credit: Oliver Müller, MOSAiC expedition Melosira algaea underneath the sea ice



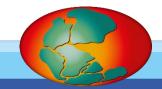


MOSAiC research data publishing

July 8th 2020, Bremerhaven

Dana Ransby (AWI) &

PANGAEA and RZ Team

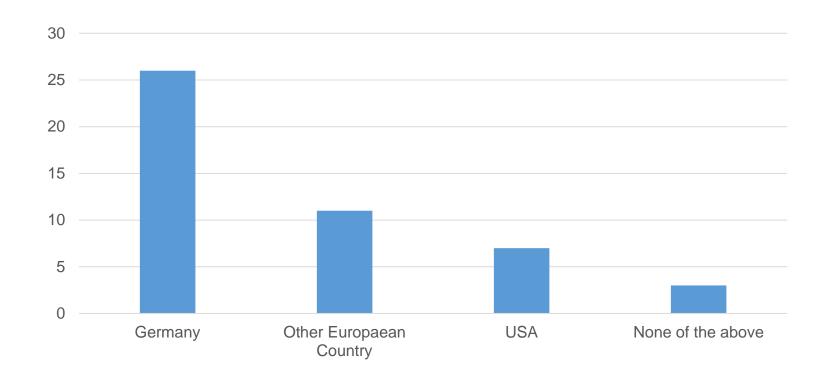




Poll: Where are you joining from?



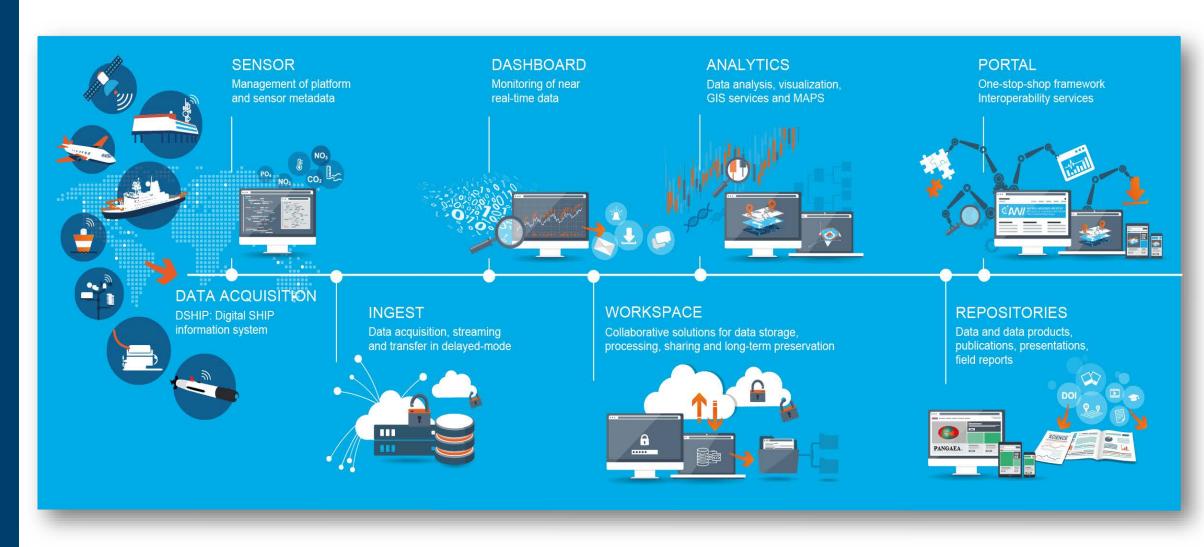






Overview

- Why do I have to publish "my" MOSAiC data?
 In context of MOSAiC Data Policy, FAIR principles and good scientific practice
- What is data publication?
 Publishing datasets, not scientific papers
- When do I publish "my" MOSAiC data?
 Timing of data publication, (also) in connection to paper publication
- Where do I publish "my" MOSAiC data?
 PANGAEA and other data repositories
- Data publication process in PANGAEA in detail



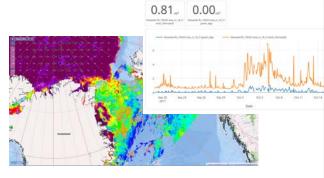
Data Flow in MOSAiC





Data

Ingestion



DSHIP-Mapviewer and

Dashboard

Monitoring

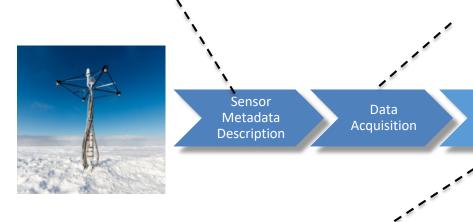
Raw and primary data at PANGAEA and other repositories

Archiving

ARM

nature





Data transfer via satellite, local LAN, radio LAN as stream and/or in delayed mode MOSAiC Central Storage and workspace

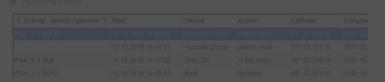
Data Storage

Using workspace and
Marketplace (VMs) e.g. with
Jupyter Notebook (R or
Python) or Bash-Script or or

Data Analysis

Data Flow in MOSAiC





Raw and primary data at PANGAEA and other repositories





ARM

Marketplace (VMs) e.g. with

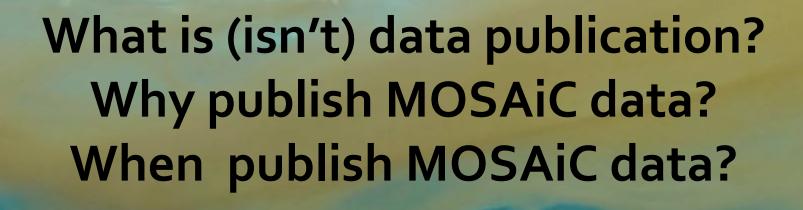
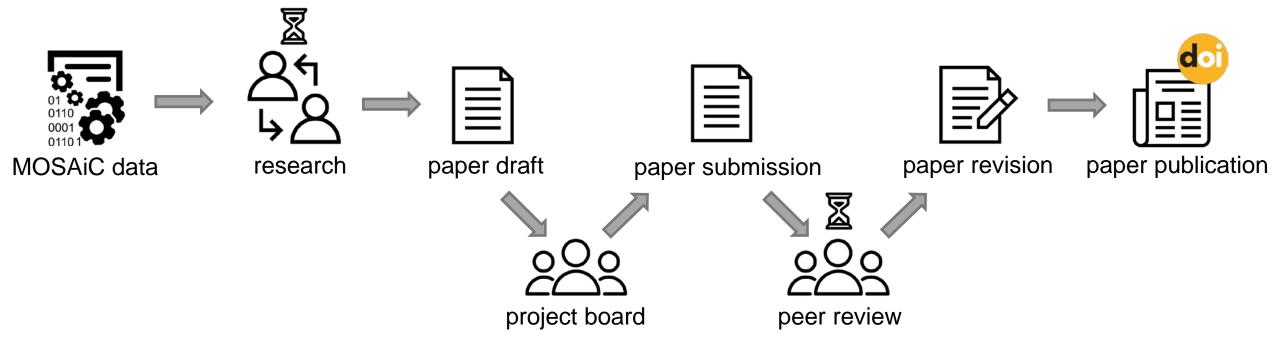
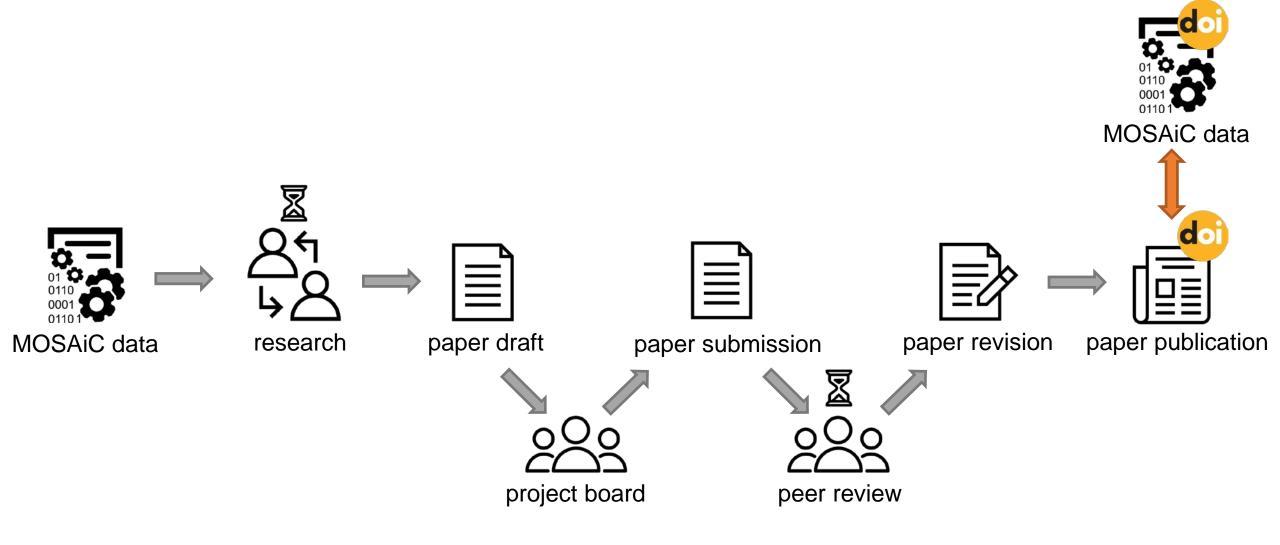


Photo credit: Oliver Müller, MOSAiC expedition Melosira algaea underneath the sea ice



A digital object identifier (DOI) is a persistent identifier used to identify objects uniquely

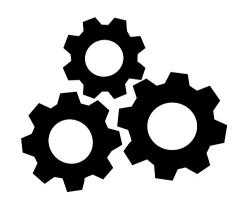




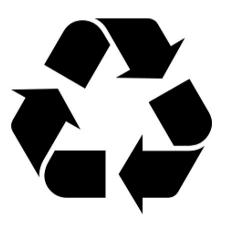
Indable Accessible

One of the content of the conte

nteroperable



eusable





Metadata: Data about Data





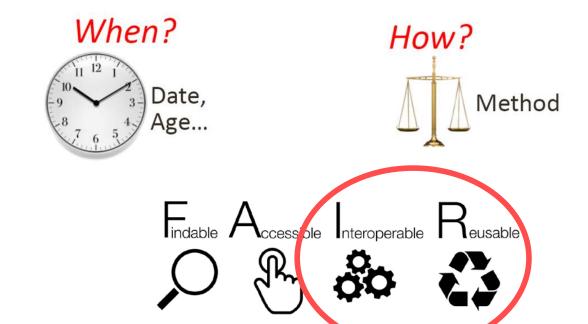






Latitude/Longitude

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





What ISN'T / IS published data?



	F Findable	A Accessible	 Interoperable	R Reusable
MOSAiC Central Storage (MCS) or some server				
Supplement to a published paper				
Acredited data repository (e.g., PANGAEA, BODC,)				

Statement in the paper "Data used for this manuscript were uploaded to PANGAEA and will be available soon."

USB Stick | Hard drive







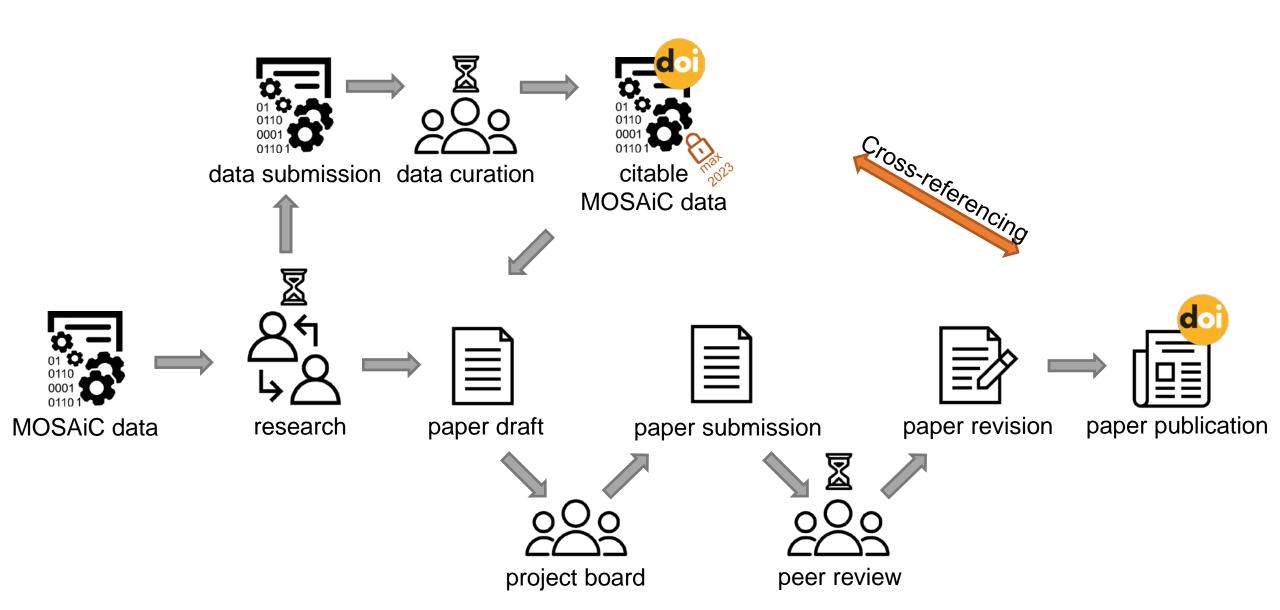
What IS published data?

A published data set equipped with a complete set of metadata. It is fully citable by having:

```
a title,
authors,
abstract and
a persistent identifier (usually DOI).
```

It can have (but doesn't need to have) a reference to a scientific paper publication.

Correct citation: Authors (YYYY) Title. PANGAEA, DOI. (not only DOI) Example: Bonne, Jean-Louis; Werner, Martin; Meyer, Hanno; Kipfstuhl, Sepp; Rabe, Benjamin; Behrens, Melanie K; Schönicke, Lutz; Steen-Larsen, Hans-Christian; Tippenhauer, Sandra (2019): Water vapour isotopes analyser calibrated data from POLARSTERN cruise PS93.2 (ARK-XXIX/2.2). PANGAEA, https://doi.org/10.1594/PANGAEA.897406



Benefits for the authors



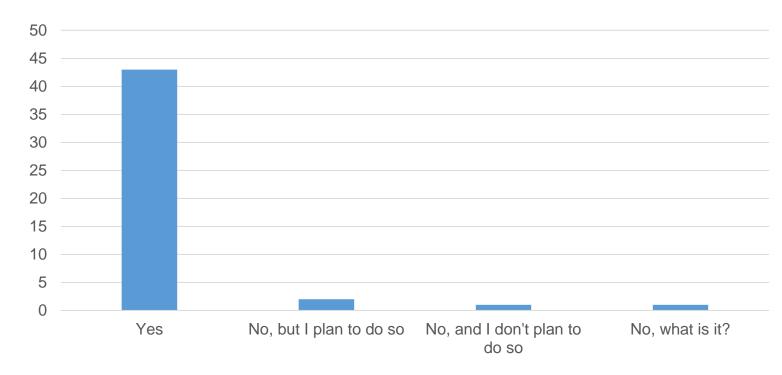
- Visibility more citations
- Credibility more credits
- Exchange improve accessibility
- Data authors ≠ paper authors
- Acknowledging contributions of scientists, technicians, students, who generated the data, but did not contribute to the interpretation or manuscript writing
- Authors of datasets: those who contributed to collection a processing of data
- Follow general rules of good scientific practice



MOSAiC Data Policy









MOSAiC Data Policy



- Regulates
 - data management
 - data access
 - data release
 - authorship
 - acknowledgments
- Signing <u>Data Policy</u> pre-requisite for participation in MOSAiC field operations and being a member of the MOSAiC consortium



Data Provision, Access and Sharing



- Early access by MOSAiC consortium to data crucial for successful collaboration within the consortium
 - all data must be made available to the consortium by the MCS as fast as possible
- Internal release:
 - 31 Jan 2021: quality-assured automated sensor & fast analysis sample data
 - · ...
 - 31 Jan 2022: full collection of laboratory sample analysis data
- Data provider / data PI must be informed and offered collaboration and offered co-authorship when using data for publications
- Public release: 1 Jan 2023
 - all MOSAiC data publicly available



Acknowledgment



- MOSAiC data to be acknowledged or referenced in publications and other public documentation
- Top-level acknowledgment of MOSAiC
 - "Data used in this manuscript was produced as part of the international Multidisciplinary drifting Observatory for the Study of the Arctic Climate (MOSAiC) with the tag MOSAiC20192020".
- Mention Project ID given for specific expedition
 - Polarstern expedition: AWI_PS122_00
 - Additional attributions like specific award/grant numbers...





MOSAiC data repositories

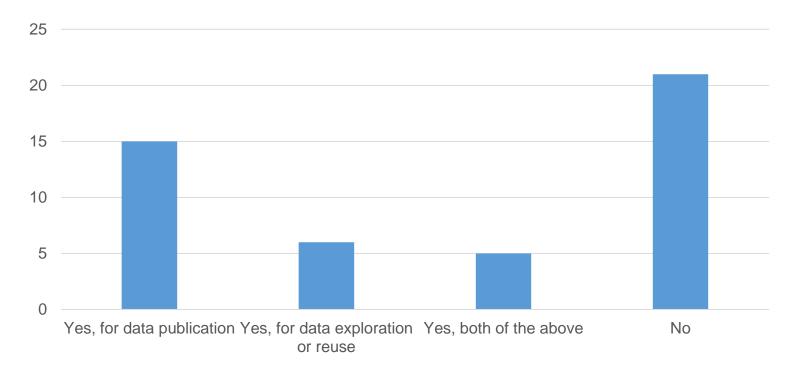


Repository		Comment
PANGAEA		MOSAiC repository for primary and row data
Arctic Data Center (ADC)		Data of NSF funded scientists
Atmospheric Radiation Measurement (ARM) data center	ARM	Data of Department of Energy funded scientists
British Oceanographic Data Centre (BODC)	BODC	Data of NERC funded scientists
UK Polar Data Centre		Data of NERC funded scientists
Centre for Environmental Data Analysis (CEDA)		Data of NERC funded scientists

Poll: Have you used PANGAEA before? AN











PANGAEA





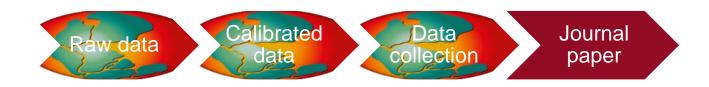
- Open access data repository for geoscientific & environmental data co-hosted by AWI & MARUM
- Data georeferenced in space & time, relational database
- Data citation incl. persistent identifier (DOI)
- Long-term accessibility of data guarantee
- Data FAIR (Findable, Accessible, Interoperable, Re-usable both for machines and for people)



How to use PANGAEA as data author



- Submission of data and metadata using ticket system
- Curators guide the users through the process
- Final step: before publishing approval needed
- Possibility of moratorium on access
- PANGAEA can provide access for reviewers of papers





Citation:

Bonne, Jean-Louis; Werner, Martin; Meyer, Hanno; Kipfstuhl, Sepp; Rabe, Benjamin; Behrens, Melanie K; Schönicke, Lutz; Steen-Larsen, Hans-Christian; Nikolopoulos, Anna; Heuzé, Céline (2018): Water vapour isotopes analyser raw data from POLARSTERN cruise PS106, links to files. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, 6 https://doi.org/10.1594/PANGAEA.884885

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

RIS Citation BIBTEX Citation & Copy Citation & Facebook & Twitter & Google+ Show Map Google Earth



Related to:

Macke, Andreas; Flores, Hauke (2018): The Expeditions PS106/1 and 2 of the Research Vessel POLARSTERN to the Arctic Ocean in 2017. Berichte zur Polar- und Meeresforschung = Reports on Polar and Marine Research, 719, 171 pp, ₺ https://doi.org/10.2312/BzPM_0719_2018 Q

Other version:

Bonne, Jean-Louis; Werner, Martin; Meyer, Hanno; Kipfstuhl, Sepp; Rabe, Benjamin; Behrens, Melanie K; Schönicke, Lutz; Steen-Larsen, Hans-Christian; Nikolopoulos, Anna; Heuzé, Céline (2019): Water vapour isotopes analyser calibrated data from POLARSTERN cruise PS106. PANGAEA, https://doi.pangaea.de/10.1594/PANGAEA.897566

Further details:

Bonne, Jean-Louis (2016): Manual for raw data from the Polarstern water vapour isotopes analyser. 5 pp, hdl:10013/epic.48115.d001 Q

Coverage:

Median Latitude: 78.564703 * Median Longitude: 17.810816 * South-bound Latitude: 53.622990 * West-bound Longitude: 2.654030 * North-bound Latitude: 83.681320 * East-bound Longitude: 34.017610

Event(s):

PS106-track Q * Latitude Start: 53.567500 * Longitude Start: 8.554800 * Latitude End: 69.678000 * Longitude End: 18.989800 * Date/Time Start: 2017-05-24T00:00:00 * Date/Time End: 2017-07-20T00:00:00 * Campaign: PS106.1 (ARK-XXXI/1.1) Q * Basis: Polarstern Q * Device: Underway cruise track measurements (CT) Q * Comment: Combined underway cruise track measurements of PS106.1 and PS106.2



GEMEINSCHAFT





Other version:

Bonne, Jean-Louis; Werner, Martin; Meyer, Hanno; Kipfstuhl, Sepp; Rabe, Benjamin; Behrens, Melanie K; Schönicke, Lutz; Steen-Larsen, Hans-Christian; Nikolopoulos, Anna; Heuzé, Céline (2019): Water vapour isotopes analyser calibrated data from POLARSTERN cruise PS106. PANGAEA, https://doi.pangaea.de/10.1594/PANGAEA.897566

Further details:

Bonne, Jean-Louis (2016): Manual for raw data from the Polarstern water vapour isotopes analyser. 5 pp, hdl:10013/epic.48115.d001 Q

Coverage:

Median Latitude: 78.564703 * Median Longitude: 17.810816 * South-bound Latitude: 53.622990 * West-bound Longitude: 2.654030 * North-bound Latitude: 83.681320 * East-bound Longitude: 34.017610

Date/Time Start: 2017-05-24T12:00:00 * Date/Time End: 2017-07-20T06:30:00

Event(s):

PS106-track Q * Latitude Start: 53.567500 * Longitude Start: 8.554800 * Latitude End: 69.678000 * Longitude End: 18.989800 * Date/Time Start: 2017-05-24T00:00:00 * Date/Time End: 2017-07-20T00:00:00 * Campaign: PS106.1 (ARK-XXXI/1.1) Q * Basis: Polarstern Q * Device: Underway cruise track measurements (CT) Q * Comment: Combined underway cruise track measurements of PS106.1 and PS106.2

Parameter(s):

#	Name	Short Name	Unit	Principal Investigator	Method	Comment
1 🏢	DATE/TIME Q	Date/Time		Bonne, Jean-Louis Q		Geocode
2 🏭	LATITUDE Q	Latitude		Bonne, Jean-Louis Q		Geocode
3 🏭	LONGITUDE Q	Longitude		Bonne, Jean-Louis Q		Geocode
4 🏢	File name Q	File name		Bonne, Jean-Louis Q		HKDS2021
5 🟭	File size Q	File size	kByte	Bonne, Jean-Louis Q		HKDS2021, gzipped
6 🏭	Uniform resource locator/link to file $ {f Q} $	URL file		Bonne, Jean-Louis Q		HKDS2021
7 🏭	File name Q	File name		Bonne, Jean-Louis Q		Log file
8 🏭	File size Q	File size	kByte	Bonne, Jean-Louis Q		Log file
9 🏭	Uniform resource locator/link to file Q	URL file		Bonne, Jean-Louis Q		Log file

Size:

348 data points

Data

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

1 ⊕ Date/Time	2 0 Latitude	3 ⊕ Longitude	4 6 File name	5 ⊕ ☑ File size [kByte]	6 ⊕ URL file	7 ⊕ File name	8 ⊕ ☑ File size [kByte]	9 6 URL file
			(HKDS2021)	(HKDS2021, gzipped)	(HKDS2021)	(Log file)	(Log file)	(Log file)
2017-05-24T12:00	53.62299	8.47016	HKDS2021-20170524-000007Z-DataLog_User.dat	29363	Link	LogFile-20170524.txt	34	Link
2017-05-25T12:00	57.25184	5.24041	HKDS2021-20170525-000008Z-DataLog_User.dat	29423	Link	LogFile-20170525.txt	33	Link
2017-05-26T12:00	61.10902	3.29890	HKDS2021-20170526-000007Z-DataLog_User.dat	29563	Link	LogFile-20170526.txt	26	Link
2017-05-27T12:00	65.09937	2.65403	HKDS2021-20170527-000008Z-DataLog_User.dat	29643	Link	LogFile-20170527.txt	24	Link
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2017-05-31T12:00	79.87253	8.82168	HKDS2021-20170531-000007Z-DataLog_User.dat	30033	Link	LogFile-20170531.txt	37	Link
2017-06-01T12:00	80.46653	7.28795	HKDS2021-20170601-000007Z-DataLog_User.dat	29776	Link	LogFile-20170601.txt	35	Link
2017-06-02T12:00	81.28870	9.26671	HKDS2021-20170602-000008Z-DataLog_User.dat	29989	Link	LogFile-20170602.txt	37	Link
2017-06-03T12:00	81.95812	10.30661	HKDS2021-20170603-000007Z-DataLog_User.dat	29942	Link	LogFile-20170603.txt	35	Link



Data collection

Calibrated

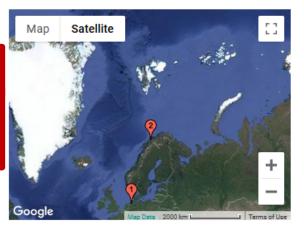
Journal paper Citation:

Bonne, Jean-Louis; Werner, Martin; Meyer, Hanno; Kipfstuhl, Sepp; Rabe, Benjamin; Behrens, Melanie K; Schönicke, Lutz; Steen-Larsen, Hans-Christian; Nikolopoulos,

Anna, neuze, cenne (2015). Water vapour isotopes analyser calibrated data from POLARSTERN cruise PS106. PANGAEA, https://doi.pangaea.de/10.1594/PANGAEA.897566 (dataset in review).

In supplement to: Bonne, Jean-Louis; Behrens, Melanie K; Meyer, Hanno; Kipfstuhl, Sepp; Rabe, Benjamin; Schönicke, Lutz; Steen-Larsen, Hans-Christian; Werner, Martin (accepted): Water vapour isotopic composition over open ocean and sea ice in the Atlantic sector.

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Other version:

Bonne, Jean-Louis; Werner, Martin; Meyer, Hanno; Kipfstuhl, Sepp; Rabe, Benjamin; Behrens, Melanie K; Schönicke, Lutz; Steen-Larsen, Hans-Christian; Nikolopoulos, Anna; Heuzé, Céline (2018): Water vapour isotopes analyser raw data from POLARSTERN cruise PS106, links to files. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, Ohttps://doi.org/10.1594/PANGAEA.884885

Coverage:

Median Latitude: 78.567967 * Median Longitude: 17.751102 * South-bound Latitude: 53.570000 * West-bound Longitude: 2.490000 * North-bound Latitude: 83.720000 * East-bound Longitude: 34.710000

Date/Time Start: 2017-05-24T01:00:00 * Date/Time End: 2017-07-20T23:00:00

Event(s):

P\$106-track Q * Latitude Start: 53.567500 * Longitude Start: 8.554800 * Latitude End: 69.678000 * Longitude End: 18.989800 * Date/Time Start: 2017-05-24T00:00:00 * Date/Time End: 2017-07-20T00:00:00 * Campaign: PS106.1 (ARK-XXXI/1.1) Q * Basis: Polarstern Q * Device: Underway cruise track measurements (CT) Q * Comment: Combined underway cruise track measurements of PS106.1 and PS106.2

Parameter(s):

# Name	Short Name	Unit	Principal Investigator	Method	Comment
1 DATE/TIME Q	Date/Time		Bonne, Jean-Louis Q		Geocode
2 LATITUDE Q	Latitude		Bonne, Jean-Louis Q		Geocode
3 LONGITUDE Q	Longitude		Bonne, Jean-Louis Q		Geocode
4 Humidity, specific Q	Humidity spec	g/kg	Bonne, Jean-Louis Q	Isotope analyzer L2130-i, Picarro Inc. Q	In situ, sampling height 29
5 δ18O, water vapour Q	δ18O H2O vapour	% SMOW	Bonne, Jean-Louis Q	Isotope analyzer L2130-i, Picarro Inc. Q	In situ, sampling height 29
6 δ Deuterium, water vapour Q	δD H2O vapour	% SMOW	Bonne, Jean-Louis Q	Isotope analyzer L2130-i, Picarro Inc. Q	In situ, sampling height 29
7 Deuterium excess Q	d xs	%o	Bonne, lean-Louis Q	Calculated after Dansgaard (1964) Q	dxs=δD - 8 x δ18O

Journal paper

5116 data points

Download Data (login required)











Citation: Bonne, Jean-Louis; Werner, Martin; Meyer, Hanno; Kipfstuhl, Sepp; Rabe, Benjamin; Behrens, Melanie K; Satellite Map Schönicke, Lutz; Steen-Larsen, Hans-Christian; Arndt, Stefanie; Bohlmann, Stephanie; Burkhardt, Elke; Engelmann, Ronny; Flau, Michael; Goedecke, Julia; Haarig, Moritz; Hampe, Hendrik; Heuzé, Céline; Hoppmann, Mario; Horn, Myriel; Kalesse, Heike; Lembke-Jene, Lester; Nikolopoulos, Anna; Rossmann, Leonard; Schlindwein, Vera; Steinmacher, Bermann; Tippenhauer, Sandra; Valk, Ole (2019): Near-surface atmospheric vapour and oceanic surface water isotopic compositions calibrated data from Polarstern cruises, 2015-2017. PANGAEA, Ohttps://doi.org/10.1594/PANGAEA.897578, Supplement to: Bonne, Jean-Louis; Behrens, Melanie K; Meyer, Hanno; Kipfstuhl, Sepp; Rabe, Benjamin; Schönicke, Lutz; Steen-Larsen, Hans-Christian; Werner, Martin (2019): Resolving the controls of water vapour isotopes in the Atlantic sector. Nature Communications, 10(1), 6 https://doi.org/10.1038 /s41467-019-09242-6 Always quote above citation when using data! You can download the citation in several formats below. @ Pecebook @ Twitter RIS Citation | SzaTaX Citation | & Copy Citation Show Map Google Earth Map date 02020 Imagery 02020 | 200 km L Here, we present a new isotopic dataset of near-surface water vapour and oceanic surface water continuously surveyed from the Polarstern research vessel during a period of two years from 2015-06-29 to 2017-07-01. The Abstract: dataset covers areas spanning from the North Pole to the coasts of Antarctica in the Atlantic sector. Water vapour observations have been measured continuously on-board using a Cavity Ring-Down Spectrometer from a 29 m elevation above the sea level. The oceanic water has been sampled on a daily basis and later analyzed for water isotopic composition at the Alfred Wegener Institut laboratory in Potsdam, Germany. These observations contribute to better understand the creation of the first water vapour isotopic signal during oceanic evaporation. They reveal that the vapour deuterium excess within the atmospheric boundary layer is not modulated by wind speed, contrary to the commonly used theory, but controlled by relative humidity and sea surface temperature only. In sea ice covered regions, the sublimation of deposited snow on sea ice is also revealed as a key process controlling the local water vapour isotopic composition. her details: Dataset description Q Coverage: Median Latitude: 29.514206 * Median Longitude: -2.322791 * South-bound Latitude: -76.980000 * West-bound Longitude: -114.770000 * North-bound Latitude: 89.990000 * East-bound Longitude: 82.996960 Date/Time Start: 2015-07-01T09:00:00 * Date/Time End: 2017-07-20T23:00:00 (c) Creative Commons Attribution 4.0 International License: Size: 23 datasets Download Data Download ZIP file containing all datasets as tab-delimited text (use the following character encoding: UTI-8: Unicode (PANGAEA default) Datasets listed in this publication series 1. Bonne, J-L; Werner, M; Meyer, H et al. (2019): Water vapour isotopes analyser calibrated data from POLARSTERN cruise PS96 (ANT-XXXI/2). Chttps://doi.org/10.1594/PANGAEA.897567 2. Bonne, J-L; Werner, M; Meyer, H et al. (2019): Water vapour isotopes analyser calibrated data from POLARSTERN cruise PS104. https://doi.org/10.1594/PANGAEA.897564

Calibrated

(arner, M; Meyer, H et al. (2019): Water vapour isotopes analyser calibrated data from POLARSTERN cruise PS105. 6 https://doi.org/10.1594/PANGAEA.897565 Journal paper

arner, M; Meyer, H et al. (2019): Water vapour isotopes analyser calibrated data from POLARSTERN cruise PS102. C https://doi.org/10.1594/PANGAEA.897562

3. Bonne, J-L; Werner, M; Meyer, H et al. (2019): Water vapour isotopes analyser calibrated data from POLARSTERN cruise PS95.1 (ANT-XXXI/1.1). Chttps://doi.org/10.1594/PANGAEA.897408 4. Bonne, J-L; Werner, M; Meyer, H et al. (2019): Water vapour isotopes analyser calibrated data from POLARSTERN cruise PS95.2 (ANT-XXXI/1.2). 6 https://doi.org/10.1594/PANGAEA.897409 C Bonno I V; Werner, M; Meyer, H et al. (2019): Water vapour isotopes analyser calibrated data from POLARSTERN cruise PS98 (ANT-XXXI/4). C https://doi.org/10.1594/PANGAEA.897569

.; Werner, M; Meyer, H et al. (2019); Water vapour isotopes analyser calibrated data from POLARSTERN cruise PS103. 6 https://doi.org/10.1594/PANGAEA.897563

MOSAIC data @PANGAEA





PANGAEA.

ALL TOPICS

project:label:MOSAiC

SUBMIT

ABOUT

SHOW MAP GOOGLE EARTH DATA WAREHOUSE

CONTACT

Filter by...

Dataset Author

Katlein, Christian (3)

Rex, Markus (3)

Smolyanitsky, Vasily (3) Nicolaus, Marcel (2)

Anhaus, Philipp (1)

Behrens, Melanie K (1)

Bessonov, Vladimir (1)

Bonne, Jean-Louis (1)

Dataset Publication Year

2020 (13)

2019 (2)

Topic

Chemistry (2)

Inorganic Chemistry (2)

Animalia (1)

Arthropoda (1)

Atmosphere (1)

Biological Classification (1)

Chordata (1)

Cryosphere (1)

more...

Project

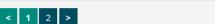
MOSAIC (15)

AWI_GeoPhy (1)

AWI_PhyOce (1)

Basis

Polarstern (11) Akademik Fedorov (3) 15 datasets found on search for »project:label:MOSAiC«



1. Katlein, C; Itkin, P; Divine, D (2020): Salinity measured on sea ice core PS122/2 24-114 during MOSAiC Leg 2

Size: 28 data points

https://doi.pangaea.de/10.1594/PANGAEA.919474 - Score: 11.24

2. Ransby, D (2020): Test dataset

Size: 0 data points

https://doi.pangaea.de/10.1594/PANGAEA.912116 - Score: 10.35

3. von der Gathen, P; Maturilli, M (2020): Ozone sonde profiles during MOSAiC Leg 1-2-3

Size: 2743920 data points

https://doi.pangaea.de/10.1594/PANGAEA.919538 - Score: 10.35

4. Haas, C (2020): Links to master tracks in different resolutions of POLARSTERN cruise PS122/2, Arctic Ocean - Arctic Ocean,

2019-12-13 - 2020-02-24

Size: 21022 data points

https://doi.pangaea.de/10.1594/PANGAEA.919904 - Score: 10.35

5. Smolyanitsky, V (2019): Navigation track of Akademik Fedorov during pre-MOSAiC project phase with 10 minute interval for 21

September - 25 October 2019

Size: 7490 data points

6 https://doi.org/10.1594/PANGAEA.909433 - Score: 9.73

6. Bonne, J-L; Behrens, MK; Werner, M (2020): Water vapour isotopes analyser raw data from POLARSTERN cruise PS122/1, links to

files

Size: 177 data points

6 https://doi.org/10.1594/PANGAEA.916096 - Score: 9.73

7. Kanzow, T (2020): Links to master tracks in different resolutions of POLARSTERN cruise PS122/3, Arctic Ocean - Longyearbyen,

2020-02-24 - 2020-06-04

Size: 29056 data points https://doi.pangaea.de/10.1594/PANGAEA.919912 - Score: 9.73

8. Rex, M (2020): Links to master tracks in different resolutions of POLARSTERN cruise PS122/1, Tromsø - Arctic Ocean, 2019-09-20 -2019-12-13



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!

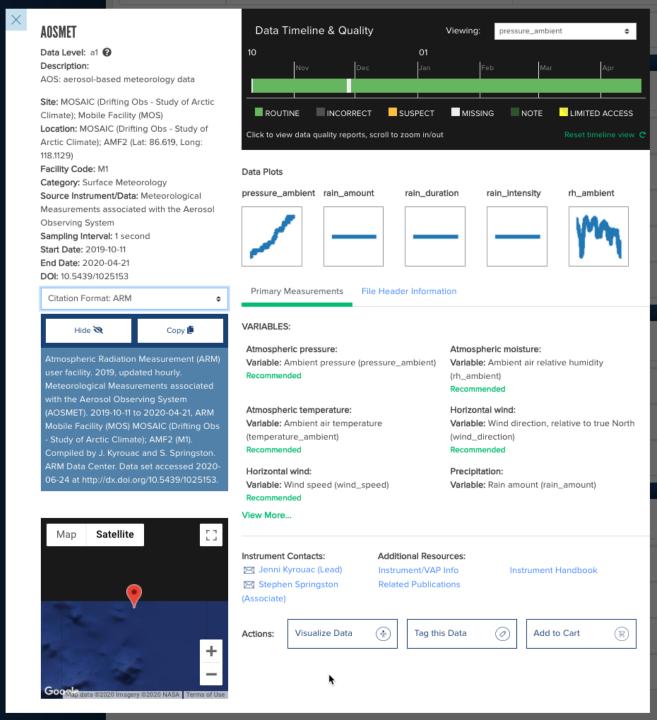
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	Clear	S			Apply
Start date:	YYYY-MM-DD	=	Clear		
End date:	YYYY-MM-DD		Apply		



- The ARM MOSAIC data available via the ARM data portal: https://arm.gov/research/campaigns/ amf2019mosaic.
- 70 processed data streams from over 50 instruments in the ARM data discovery portal https://adc.arm.gov/discovery/#/resul

ts/site code::mos

 A new data discovery portal: an "integrated view of data details, including rich metadata, data plots, citations, and contacts etc..)

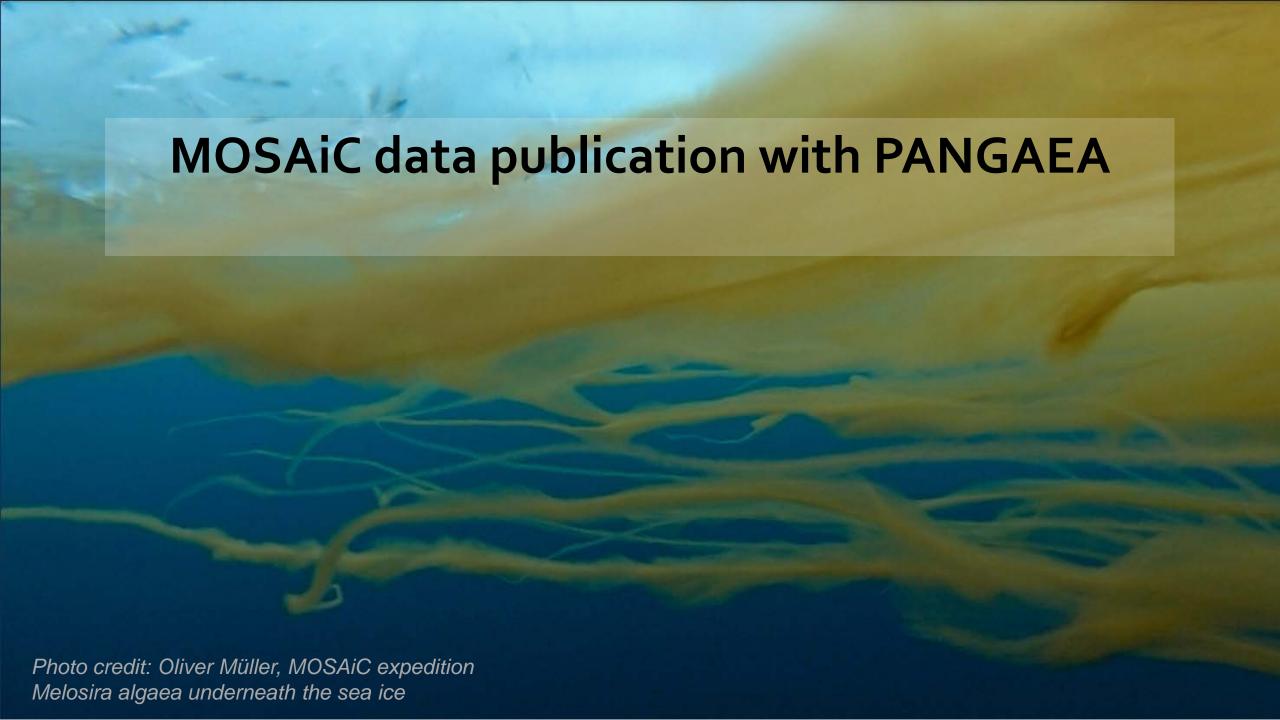






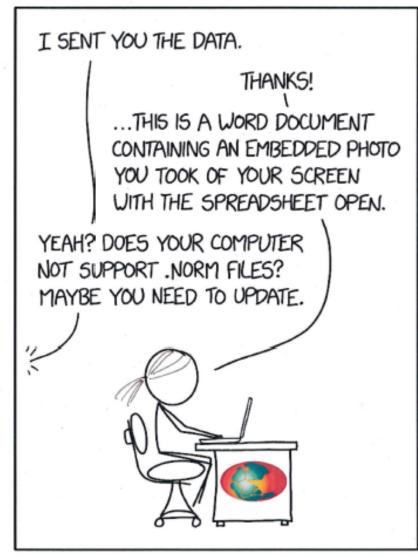
- The datastreams will be available via the DataOne member node.
- ARM Pls contribute data using: <u>https://arm.gov/policies/datapolicies/data-product-registration-and-submission</u>





Data submission preparation

...to minimize the preparatory work prior to upload



SINCE EVERYONE SENDS STUFF THIS WAY ANYWAY, WE SHOULD JUST FORMALIZE IT AS A STANDARD.

Data submission preparation (tabular data)

- Data might be submitted as TAB-delimited TEXT-files (ASCII) or excel-format
 - For all samples, observations and measurements made somewhere on earth, georeference is mandatory (latitude/longitude in decimal degree).
 - Additionally, third dimension: water depth, altitude, depth in ice, ...
 - Date/Time must be provided in ISO-format (e.g. 2020-04-07T13:34:11).
 - For each observation provide Event (Device operation ID) in the first column
 - Parameters are always accompanied by a unit.
 - Abbreviations should be explained.
 - A separate metadata table can be added, with short name / long name / PI / method / comment for each parameter



4	A B	С	D			G	Н			K	L N	1 N	0	Р	Q	R	S	T	υ	V 1	w	Х	Y 2	Z A	A AE	AC	AD	AE	AF	AG	AH	Al	AJ	AK
1 Z	one Date/Time	Latitude	Longitude	СТ	CRS	CF1	CGW	CGR	CNL	CNI I	FRS FF	1 FGV	V FGR	FNL	FNI	ICERCN	CT	CRS C	F1 C	GW C	GR C	CNL C	NI FR	S FF1	FGV	/ FGR	FNL	FNI	ICERCN	ICELWD	ICESCT	ICESCN	CICETCK	CICETCK
2	1 2019-09-25T09:00	81.44167	77.37667														3				1.5	0.5	1			1.3	2						1.5	1.5
3	2 2019-09-25T22:36	81.46	99.22083														5				3		2			1.3	2	0.2	0.	5			2	3
4	3 2019-09-25T23:30	81.48433	100.38467	2	2						2.3						1	1						2.3								5	1 0	0
5	4 2019-09-25T23:40	81.46667	100.69517	4	3					1	2.3				2,3																	5	1 0	0
6	5 2019-09-26T00:57	81.47951	101.88733	2	1					1	2				2																		1 0	0
7	6 2019-09-26T01:24	81.48833	102.071	9	4				5		2.3			2.3.4			7					3		0.7			2.3	3			10	1.	5 3	0
8	7 2019-09-26T02:07	81.46667	103.05								<u> </u>		4									C		D	_		<u>E</u>					F		
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11	10 2019-09-26T03:33	81.51667	103.98333	10	7			1	2		_	/Time			ATE/1								Timofe										g Moscow ti	ime zone
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13	12 2019-09-26T05:41	81.53333	105.51667	9	6			1	2			itude			ONGI								Timofe							ining; dec	imal deg	rees		
14	13 2019-09-26T06:30	81.53333	106.16667	9	6			1	2		6 CT					concer							Timofe						the regio					
15	14 2019-09-26T07:00	81.53333	106.4	9	7			1	1		7 CRS					concer		-					Timofe						the regio					
16	15 2019-09-26T07:30	81.53333	106.7	10	7			1	2		8 CF1					concer							Timofe						the regio					
17	16 2019-09-26T07:55	81.55	106.9	10	7				1	2	9 CGW					concer				e ice			Timofe						the regio					
18	17 2019-09-26T08:10	81.55	107.03333	10	8			1	1		10 CGR					concer			ice				Timofe						the regio					
19	18 2019-09-26T08:25	81.55	107.2	10	7			1	2		11 CNL					concer		-	_				Timofe						the regio					
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21	20 2019-09-26T09:30	81.56667	107.85	9	5			2	2		13 FRS					form, r			_										the regio				170	
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24	23 2019-09-26T11:20	81.61667	108.58333	6	1			1	4		16 FGR					form, g		2											the regio					
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26	25 2019-09-26T12:05	81.60001	109.13333	9	5			2	2		18 FNI					form, r										GRID-3	: Table		the regio	_				
27	26 2019-09-26T12:45	81.61667	109.51668	8	4			2	2		19 ICER	CN				ge conce							Timofe						the regio	~ \\	'			
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Data submission preparation (binary files) (1)

- Binary files with specific formats (e.g. shape, netCDF, segy, images, films ...) archived as links to files.
- A file list including
 - Event / Device operation ID
 - Latitude, Longitude
 - Date/Time
 - data description (readme file)
- File names should not contain spaces and special symbols



	A	В	С	D	E	F	G
1 Eve			Longitude	•	-	Content	File name
	122/2_25-44		77.6853			Under-ice fauna in between ice platelets	amphipodvlcsnap-2020-02-19-11h15m18s072.png
	122/2_18-89		115.3934				vlcsnap-2020-01-05-17h51m34s474.png
4 PS1	22/2_19-11	5 87.2136	111.325	41	2020-01-11T00:00	Platelet covered level ice next to "Fort ridge"	vlcsnap-2020-01-12-11h02m09s615.png
5 PS1	22/2_19-11	5 87.2136	111.325	11	2020-01-11T00:00	Platelet covered eastern side of "Fort ridge" site	vlcsnap-2020-01-12-11h03m00s535.png
6 PS1	22/2_19-11	5 87.2136	111.325	17	2020-01-11T00:00	Platelet ice on rope	vlcsnap-2020-01-12-11h18m23s083.png
7 PS1	22/2_19-11	5 87.2136	111.325	42	2020-01-11T00:00	Platelet ice on ridge blocks	vlcsnap-2020-01-12-11h19m57s927.png
8 PS1	22/2_19-11	5 87.2136	111.325	47	2020-01-11T00:00	Platelet ice on level ice and ridge blocks	vlcsnap-2020-01-12-11h20m29s474.png
9 PS1	22/2_20-23	87.4001	105.3323	20	2020-01-14T00:00	Platelet ice on ridge blocks next to sediment trap deployment hook	vlcsnap-2020-01-15-06h38m08s331.png
10 PS1	22/2_20-23	87.4001	105.3323	26	2020-01-14T00:00	Platelet ice on ridge blocks and on sediment trap deployment hook	vlcsnap-2020-01-15-06h38m20s328.png
11 PS1	22/2_20-10	1 87.4132	98.2978	60	2020-01-18T00:00	Brinicle covered in platelets	vlcsnap-2020-01-19-13h03m54s055.png
12 PS1	22/2_20-10	1 87.4132	98.2978	27	2020-01-18T00:00	Platelet ice on ridge blocks and on sediment trap deployment hook	vlcsnap-2020-01-19-13h10m50s462.png
13 PS1	22/2_20-10	1 87.4132	98.2978			Platelet ice on hot wire crossbar and ablation stake	vlcsnap-2020-01-19-13h14m54s168.png
	22/2_21-12		92.83	81	2020-01-25T00:00	Platelet ice growing upwards on rafted floe	vlcsnap-2020-01-26-12h36m55s039.png
15 PS1	22/2_21-12	5 87.4053	92.83	45	2020-01-25T00:00	Platelet ice growing upwards on rafted floe	vlcsnap-2020-01-26-12h37m17s483.png
16 PS1	22/2_21-12	5 87.4053	92.83			Under-ice fauna in between ice platelets	vlcsnap-2020-01-26-12h55m49s566.png
17 PS1	22/2_21-12	5 87.4053	92.83	3	2020-01-25T00:00	Under-ice fauna in between ice platelets close to ROV hole	vlcsnap-2020-01-26-12h56m03s753.png
	22/2_21-12		92.83	35	2020-01-25T00:00	Under-ice fauna and sediment (?) deposit in between ice platelets atop a rafted floe	vlcsnap-2020-01-26-12h57m03s914.png
	22/2_21-12		92.83	74	2020-01-25T00:00	Brinicles covered in platelets	vlcsnap-2020-01-26-12h56m03s753.png vlcsnap-2020-01-26-12h57m03s914.png vlcsnap-2020-01-26-13h25m36s839.png vlcsnap-2020-01-26-13h25m42s652.png
20 PS1	22/2_21-12	5 87.4053	92.83	94	2020-01-25T00:00	Brinicles covered in platelets	vlcsnap-2020-01-26-13h25m42s652.png
21 PS1	22/2_22-10	7 87.345	95.2801	33	2020-02-02T00:00	Platelet ice growth on MYI structures	vlcsnap-2020-02-03-07h00m21s589
22 PS1	22/2_22-10	7 87.345	95.2801	89	2020-02-02T00:00	Platelet ice on ridge blocks and on sediment trap deployment hook	vlcsnap-2020-02-03-07h12m31 ^c
23 PS1	22/2_22-10	7 87.345	95.2801	77	2020-02-02T00:00	Platelet ice on ridge blocks and on sediment trap deployment hook	vlcsnap-2020-02-03-07h12r
24 PS1	22/2_22-10	7 87.345	95.2801	30	2020-02-02T00:00	Platelet ice on protruding spine catching the ROV tether cable	vlcsnap-2020-02-03-07'
25 PS1	22/2_23-29	87.4704	95.1437	40	2020-02-04T00:00	Platelet ice on under-ice ablation stake	vlcsnap-2020-02-07
26 PS1	22/2_23-29	87.4704	95.1437	41	2020-02-04T00:00		vlcsnap-2020png
	122/2_23-11		93.8622				
	122/2_23-11		93.8622			Platelet ice along MYI structures Platelet ice growing on rafted floes Platelet ice growing on rafted floes Platelet ice on ridge blocks and on sediment trap deployment hook Platelet ice on ridge blocks and on sediment trap deployment hook Platelet ice on ridge blocks and on sediment trap deployment hook Brinicle with only few platelets Platelet ice on ridge blocks and on sediment trap deployment hoc' Platelet ice growing on rafted floes Platelet ice along MYI structures	vlcsr Jm24s603.png
	22/2_23-11		93.8622			Platelet ice growing on rafted floes	sh08m25s986.png
30 PS1	22/2_23-11	6 87.6688	93.8622	68	2020-02-08T00:00	Platelet ice on ridge blocks and on sediment trap deployment hook	υ9-18h49m02s251.png
31 PS1	22/2_23-11	6 87.6688	93.8622	23	2020-02-08T00:00	Platelet ice on ridge blocks and on sediment trap deployment hook	u-02-09-18h49m25s189.png
32 PS1	22/2_23-11	6 87.6688	93.8622	49	2020-02-08T00:00	Platelet ice on ridge blocks and on sediment trap deployment hook	-2020-02-09-18h52m12s840.png
33 PS1	22/2_23-11	6 87.6688	93.8622			Brinicle with only few platelets	nap-2020-02-09-18h59m49s773.png
	22/2_23-11		93.8622	9	2020-02-08T00:00	Platelet ice on ridge blocks and on sediment trap deployment hoc	vlcsnap-2020-02-09-19h01m23s342.png
			79.8141			Platelet ice growing on rafted floes	vlcsnap-2020-02-17-07h26m12s452.png
	122/2_24-97		79.8141			Platelet ice along MYI structures	vlcsnap-2020-02-17-07h28m49s856.png
	22/2_24-97		79.8141				vlcsnap-2020-02-17-07h31m40s224.png
	122/2_24-97		79.8141	0	2020-02-15T00:00		vlcsnap-2020-02-17-07h32m07s381.png
							GEMEINSCHAFT

Data submission preparation



- **Titles** for all your submitted datasets (tables) different from the paper, should reflect what was measured, where and when
- MOSAiC as project
- (Preliminary) paper citation if data related to a publication
- Abstract data specific
- Extended documentation (SOPs) as plain text or pdf-file, or hdl (link to Epic)
- Check more details at <u>PANGAEA wiki</u>



Data submission



Project	PANGAEA Data Archiving & Publication	•••	ABSTRACT and/or turtner details describing the data.	
Issue Type	→ Data Submission	Keywords		
Summary*	y, Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar und Meeresforschung)		Separate keywords by comma or semicolon.	
	The summary (subject) is used as identifier in the further communication.	Attachment	🥎 Drop files to attach, or browse.	
Author(s)*	Ransby, Daniela		ATA FILE(S) ARE REQUIRED! Max. size for attachments is 100MB. If you have larger files OR if you have more than 20 files please request an upload link writing a comment into your issue. For data submissions, read our format guide .	
		License*	CC-BY: Creative Commons Attribution 4.0 International	
Titlo	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		General information on used licences can be found on the Creative Commons license pages. If you nee choose the correct license for your dataset, you can look here: https://wiki.pangaea.de/wiki/License	
Titlo	ORCID: Open Researcher and Cont nonproprietary alphanumeric code to	uniquely ider	d create labels or press down to select a suggested label. mission, e.g. PROJECT, institute, etc. Labels have to be one word!	
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New submission interface:



• Coming soon!







Basic Informations									
		was measured, who							
	Authors*								
4	Ransby	Daniela	daniela.ransby@awi.de	Alfred-Wegener-Institut, Helm					
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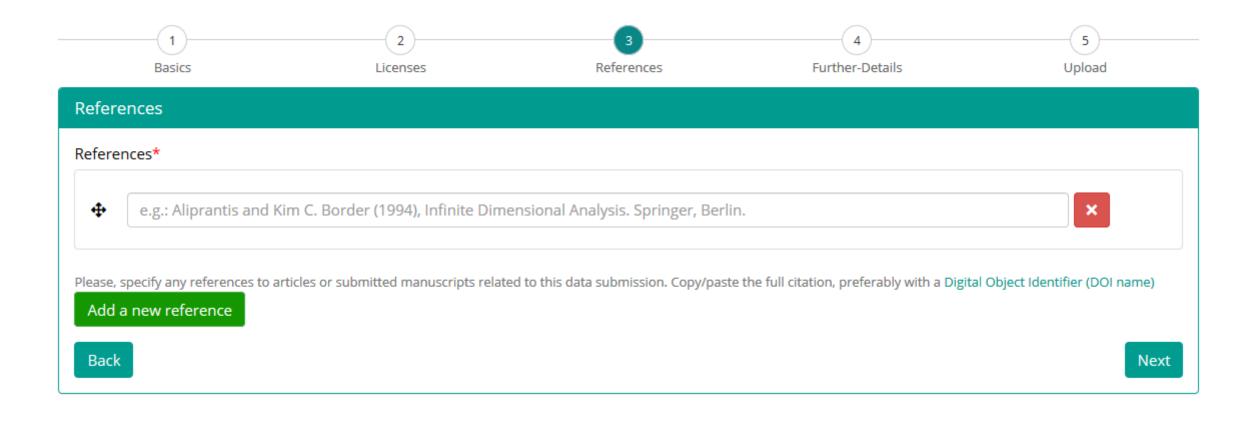
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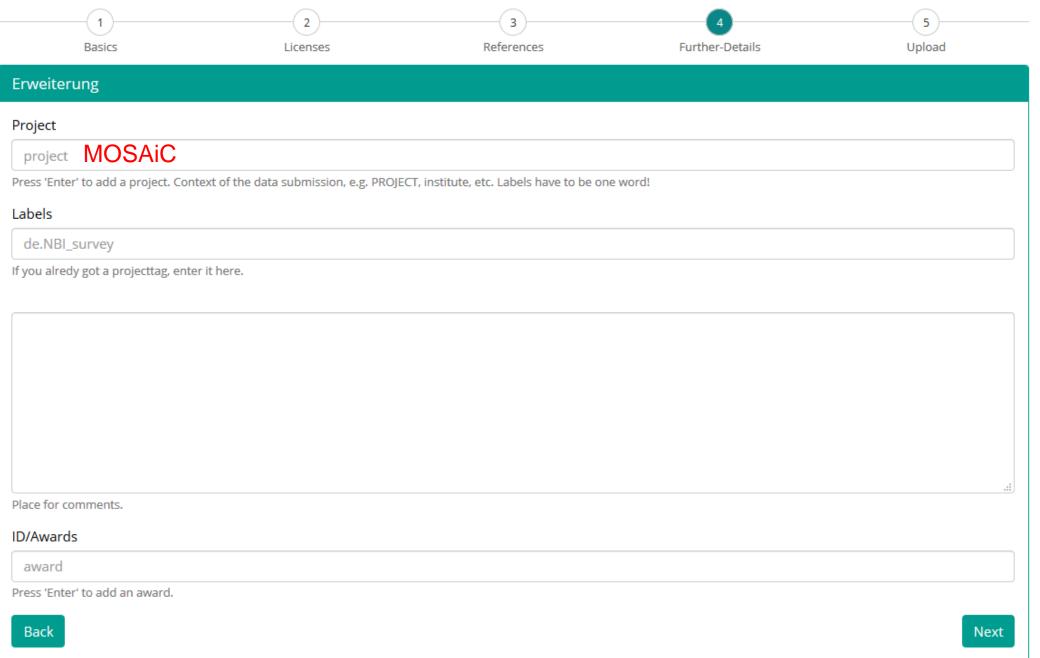
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— 1 Basics	Licenses	References	4 Further-Details	Upload
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Terms of Use*	ur format guide (fittp://wiki.pangaea.c	e/wiki/roi matj.		
Privacy Policy*□				
Back				Submit





Where do I find Event / Device operation ID?

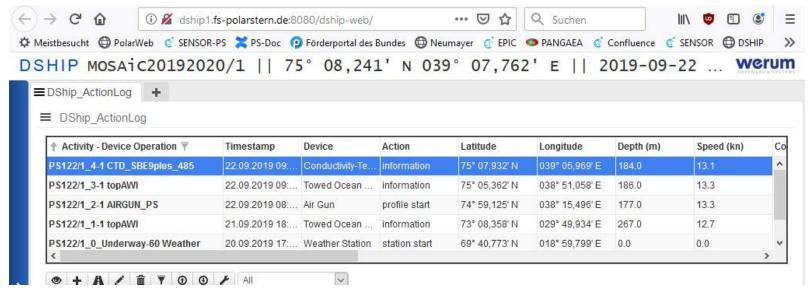


D-ship log → PANGAEA



Device Operation ID (D-ship):

Campaign/Expedition-Leg_Science Activity-No. of Device Operation within Science Activity



Science Activities and Device Operations

- Science Activities are a collection of device operations
- Device Operations are your measurements or sampling actions
- Device Operations can be composed of several actions



Device operation ID = Event



- Device Operation ID (logged during MOSAiC expedition) = Event (in PANGAEA)
 Campaign/Expedition-Leg_Science Activity-No. of Device Operation within Science Activity
- Events in PANGAEA are not sub-divided to Actions! (a simplified list)

Latitude Longitude Elevation Date/Time end Latitude end Longitude end Elevation end Comment

View and download Event lists by MOSAiC leg: https://www.pangaea.de/expeditions/byproject/MOSAiC



PANGAEA.

Data Publisher for Earth & Environmental Science

SEARCH SUBMIT ABOUT CONTAC

Event List of AF-MOSAiC-1

Event label Optional label Method/Device Sensor URI Date/Time

Download as tab-delimited text

AF-MOSAiC- 1_track		Underway cruise track measurements		2019-09-21T08:00:11	1 69.67879	18.99250	2	.019-10-18T00:19:10	84.76533	132.13295	
AF- MOSAIC-1_139	_	Surface velocity profiler	Link	2019-09-29T00:36:00	85.53700	139.03100					Station P40_Measurement:GPS Position_Comment:EUMETNET YOPP buoy. Deployed by heli crew during survey flightOld Labels:MO_SVP.I-BXGS-AP,PS122/1_1-157
AF- MOSAiC-1_3	PS122/1_3-3	Helicopter	Link	2019-09-30T00:01:00	0 85.12439	137.98501					_Measurement:Sea ice thickness_Comment:EM-Bird survey over floe 4a and in the vicinity. Instrument showed strong drift in signal which may be the result of a broken SBC computer. After flight, computer was replaced and problem solved. Data requires additional processing to compensate for strong instrument drift_Old Labels:HELL_AEM_AWI_20190930,PS122/1_3-3
AF- MOSAiC-1_1	PS122/1_3-1	Broadband electromagnetic sensor	Link	2019-09-30T03:15:00	0 85.12085	137.85481					20190930_Station_001Measurement:Comment:Old Labels:,PS122/1_3-1
AF- MOSAiC-1_43	PS122/1_3-43	Ice thickness gauge	Link	2019-09-30T03:21:00	85.78149	123.69648					Ice Thickness measurement_Measurement:_Comment:_Old Labels:,PS122/1_3-43
AF- MOSAiC-1_36	_	Broadband electromagnetic sensor	Link	2019-09-30T06:54:00	0 85.10939	137.70180					20190930_Station_002_Measurement:_Comment:_Old Labels:,PS122/1_3-36
AF- MOSAiC-1_165		Buoy, universal tracker	Link	2019-09-30T12:00:00	86.18000	125.37000					Station P45_Measurement:GPS Position_Comment:Placed during survey flight north of distributed network area. Loc,date estimated from buoy reportsOld Labels:OSU-UT-0003,PS122/1_1-180
AF- MOSAiC-1_164	_	Buoy, universal tracker	Link	2019-09-30T12:00:00	85.83000	118.19000					Station P44_Measurement:GPS Position_Comment:Placed during survey flight north of distributed network area. Loc,date estimated from buoy reportsOld Labels:OSU-UT-0001,PS122/1_1-179
AF- MOSAiC-1_44	PS122/1_3-44	Ice thickness gauge	Link	2019-10-01T01:15:00	85.71339	123.24103					Ice Thickness measurement_Measurement:_Old Labels:,PS122/1_3.44
AF- MOSAiC-1_45	PS122/1_3-45	Ice thickness gauge	Link	2019-10-03T01:24:00	85.19975	135.47300					Ice Thickness measurement_Measurement:_Old Labels:;PS122/1_3-45
AF- MOSAiC-1 154		Buoy, ice tracker	Link	2019-10-04T11:08:00	85.11570	133.13030					Station P04_Measurement:GPS Position_Comment:Deployed on small flow along side ship by Daniel Watkins_Old Labels:OSU-IT-0013,PS122/1 1-191



Found a mistake in an Event?



- Errors cannot be corrected in D-ship log, but can be corrected in PANGAEA & Sensor web
- Go to for instructions: https://spaces.awi.de/x/ADFrEw, download correction sheet and contact PANGAEA (submit correction sheet)



Row data publishing



- Raw data publication: semi-automatic in the near future
- The responsible PIs will be informed about the process
- If the raw data wasn't published with PANGAEA at the time of primary data publication yet, and is needed, <u>contact the PANGAEA</u> <u>team</u>
- During data publication instruct the editors in your data repository to create links to other versions of data (e.g., raw data)



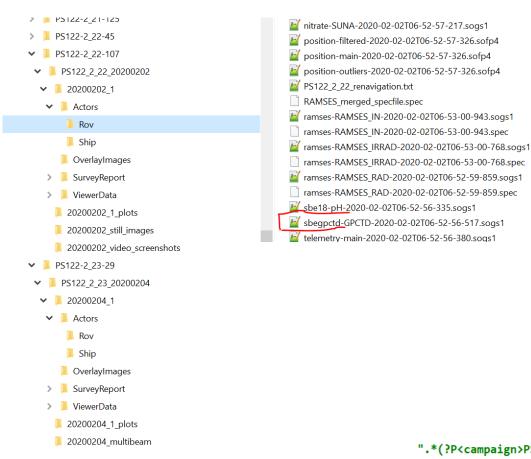
Raw data description



- Each relevant file type must be described prior to submission via the senor related ingest tab on sensor.awi.de https://spaces.awi.de/x/IACZBQ
- A link to a detailed description (in epic.awi.de) shall be given for non standard RAW files.
- A data directory and files structure description must answer the following questions:
 - Under which path on the MCS are the files stored?
 - Where are the relevant files on the data storage?
 - Naming schema of relevant files. (Prefix, postfix, timestamp, datatype)?
 - Are there files in the data storage which shall not be published. (E.g. hternational redundant data, ...)

Data directory and file description example:



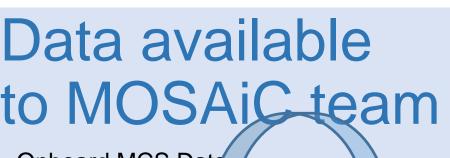


- vehicle:beast:gpctd_0168__ ctd data shall be published.
- Files are stored here: vehicle/beast/exdata/PS122_._.._1/Ac tors/Rov/ (. Placeholder)
- File prefix: sbegpctd-GPCTD
- File ending: .sogs1
- If you are familiar with regex filters than it is highly apprechiated if you prepare the filters similar to the following example and attach them to the data description on sensor.awi.de.

".*(?P<campaign>PS[0-9]{2,3})-(?P<leg>[1-9])_(?P<science_operation>[0-9]{1,3})-(?P<device_operation>[0-9]{1,3}).*",

".*20[1,2][0-9][0-1][0-9][0-3][0-9]_1/Actors/Rov/sbegpctd-GPCTD-(?P<year>20[1,2][0-9])-(?P<month>[0-1][0-9])-(?P<day>[0-3][0-9])T(?P<hour>[0-2][0-9])-(?P<minute>[0-5][0-9])-(?P<second>[0-9]]-.*.sogs1





Onboard MCS Data



NOSAiC Data not

stored on onboard

(e.g. buoy data or DOE-

MCS

ARM)

Raw and primary data



Long term archive



Land MCS

Raw data

Metadata

Upon request of Researcher. some automated

3

Primary data

Upon Data-Ticket issued by researcher via Ticketing System of PANGAEA

> Link between datasets

Raw data

Published data

PANGAEA = Publication with DOI (=> citable)



Password protection until 2023-01-01 possible (only metadata are visible)







PANGAEA's data management team for MOSAiC





daniela.ransby@awi.de info@pangaea.de

Information on data publication: https://spaces.awi.de/x/AKnFEw



Welcome to MOSAiC data services

Welcome to the services for MOSAiC provided by the Alfred Wegener Institute.

General information

Web Site
Visit the official MOSAIC web site.

Goto MOSAIC

MOSAiC Handbook

Visit the MOSAiC Handbook with information about

Polarstern and MOSAiC data

Goto MOSAiC Handbook

Password
Change your password for MOSAiC Account

Password change

MOSAIC Logbook
Logbook from Polarstern
Open Logbook

Access the Data

File Transfer
Access Mosaic Data via SFTP Protokoll.

Open SFTP documentation

JupyterHub

Work with your MOSAiC data in Jupyter notebooks.

Open JupyterHub

VPN Access
Connect to the AWI network via VPN (for external project members)

Open VPN documentation

AWI marketplace
Request virtual machines / services from AWI marketplace
(VPN required)

Open marketplace documentation

Observation to Achive (O2A)

SENSOR
Manage your platforms and devices.

Goto SENSOR

DASHBOARD
Manage your data dashboards.

Goto DASHBOARD

DATA PORTAL and MAPS
Explore data, metadata and maps.

Goto DATA

PANGAEA
Find, archive and publish data.

Goto PANGAEA

O2A Best Practices
Understand the O2A framework.

Goto documentation

O2A Videos
Learn about O2A components.

Goto YouTube

O2A Examples
Explore and try data science examples.

Goto GitHub

O2A Wiki
Visit the MOSAIC O2A information.

Goto O2A

Ingest Submission Service
Uploading data files according to descriptions in sensor.awi.de
Goto Ingest Submission Service

Data Publication
Publish MOSAIC datasets

Goto MOSAIC data publication guideline

International
Arctic Drift
Expedition

HELMHOLTZ
GEMEINSCHAFT