PANGAEA

Data Publisher For Earth And Environmental Science

Janine Felden & PANGAEA Team

ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR- UND MEERESFORSCHUNG
HELMHOLTZ

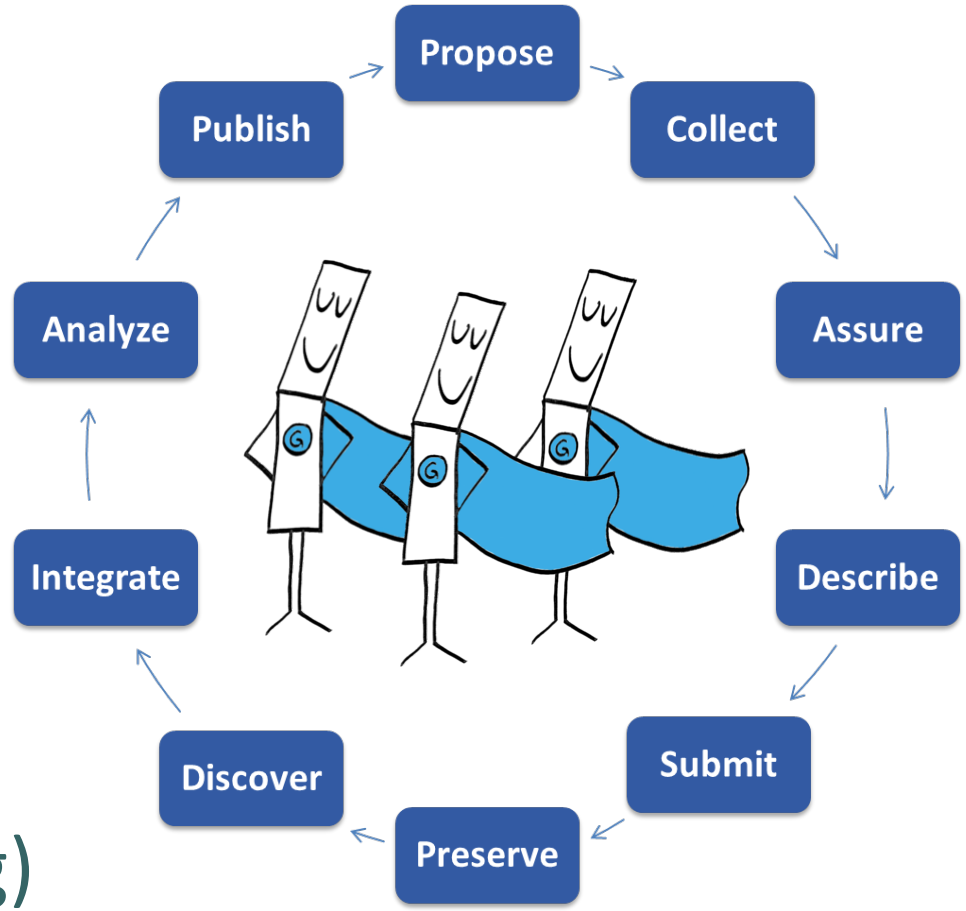
PANGAEA
Data Publisher for Earth & Environmental Science

marum
Center for Marine Environmental Sciences
Universität Bremen

GFBio - Services

Single point of contact for:

- Data management
- Long-term data archival
- Integrated data discovery
- Visualization and analyses
- Helpdesk (e.g. support, training)



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- **Long-term data archival**
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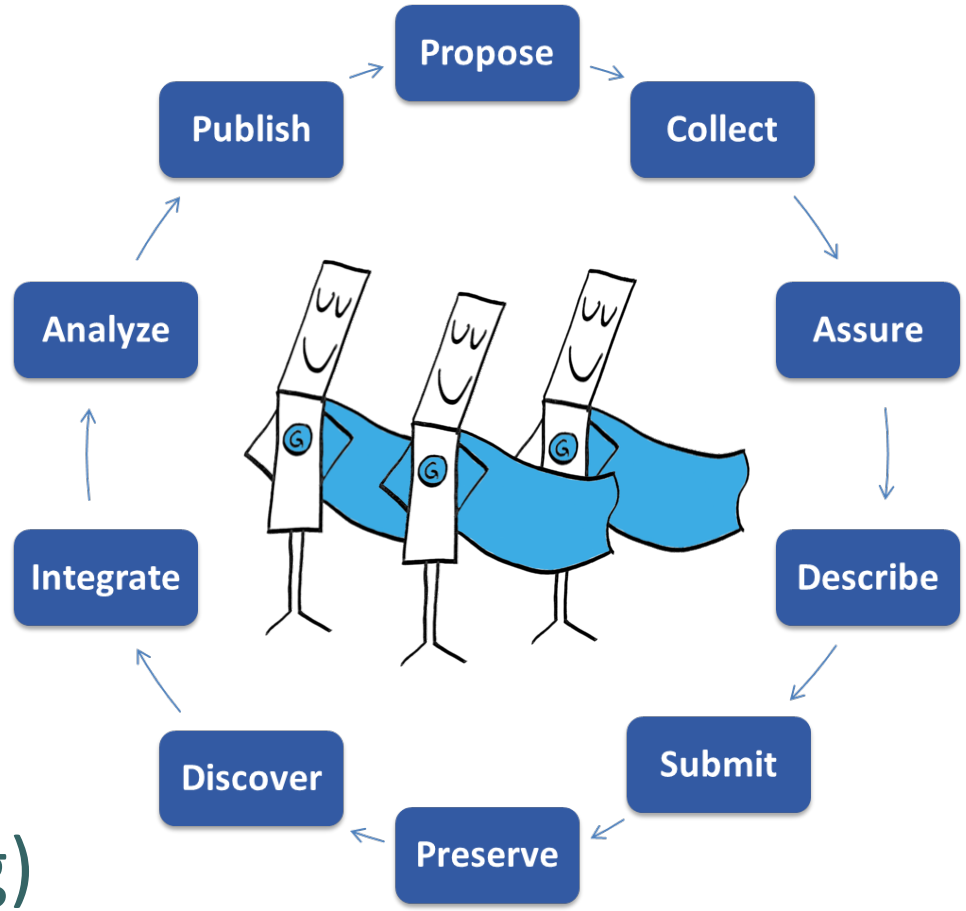
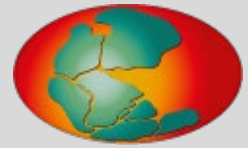


GFBio - Data Submission and Archiving



NATURKUNDE MUSEUM STUTTGART

für Natur MUSEUM FÜR NATURKUNDE BERLIN

DSMZ

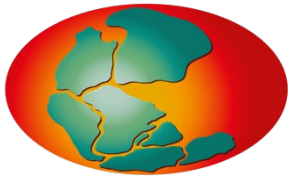
BG BM Botanischer Garten & Botanisches Museum Berlin

FORSCHUNGS museum KOENIG

SENCKENBERG world of biodiversity

staatliche naturwissenschaftliche sammlungen bayerns

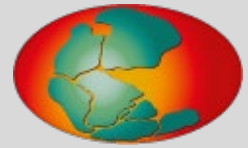
ENA European Nucleotide Archive



PANGAEA. Data Publisher for Earth & Environmental Science

gfbio

GFBio - Data Submission and Archiving



NATURKUNDE MUSEUM STUTTGART

MUSEUM FÜR NATURKUNDE BERLIN

DSMZ

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FORSCHUNGS museum KOENIG

SENCKENBERG world of biodiversity

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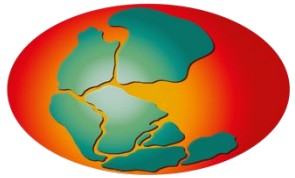
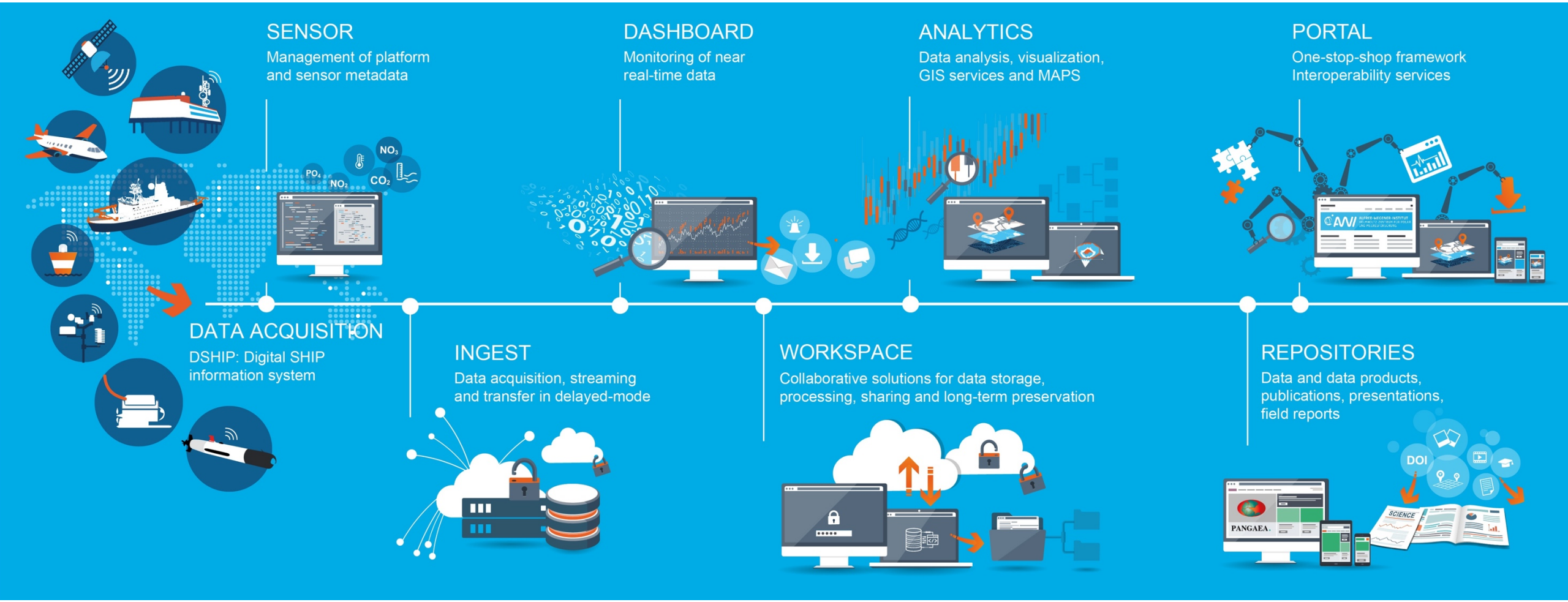
ENA European Nucleotide Archive



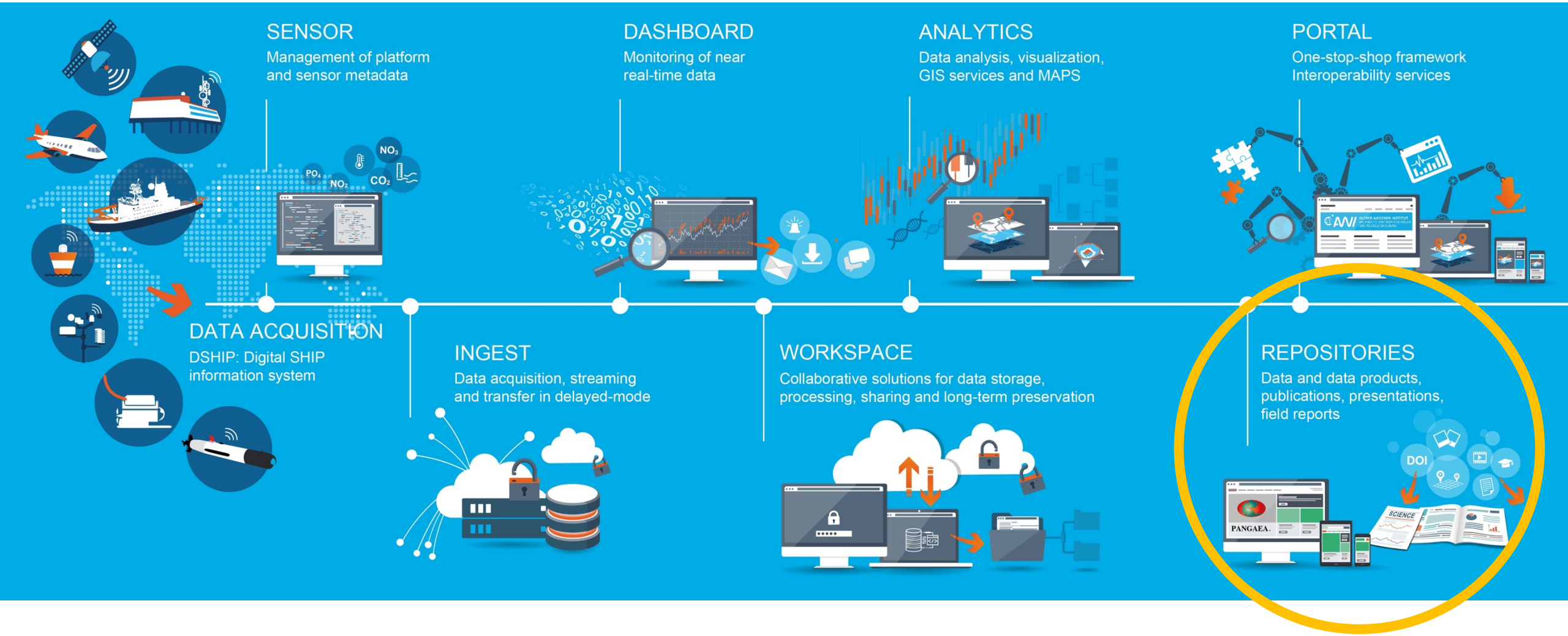
PANGAEA. Data Publisher for Earth & Environmental Science

gfbio

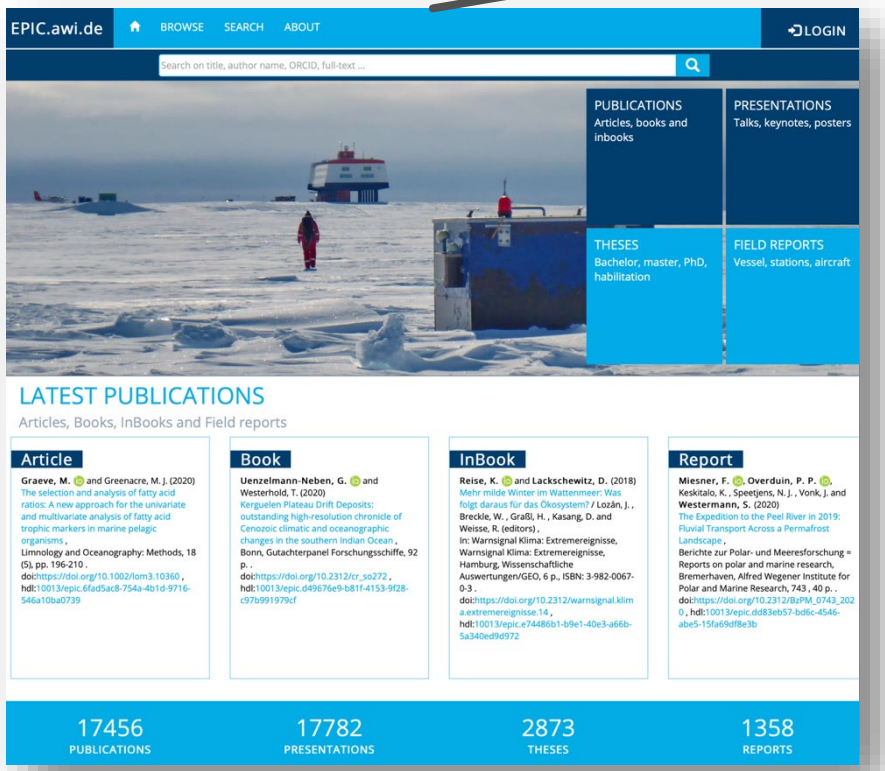
O2A: Observation to Archive & Analyses

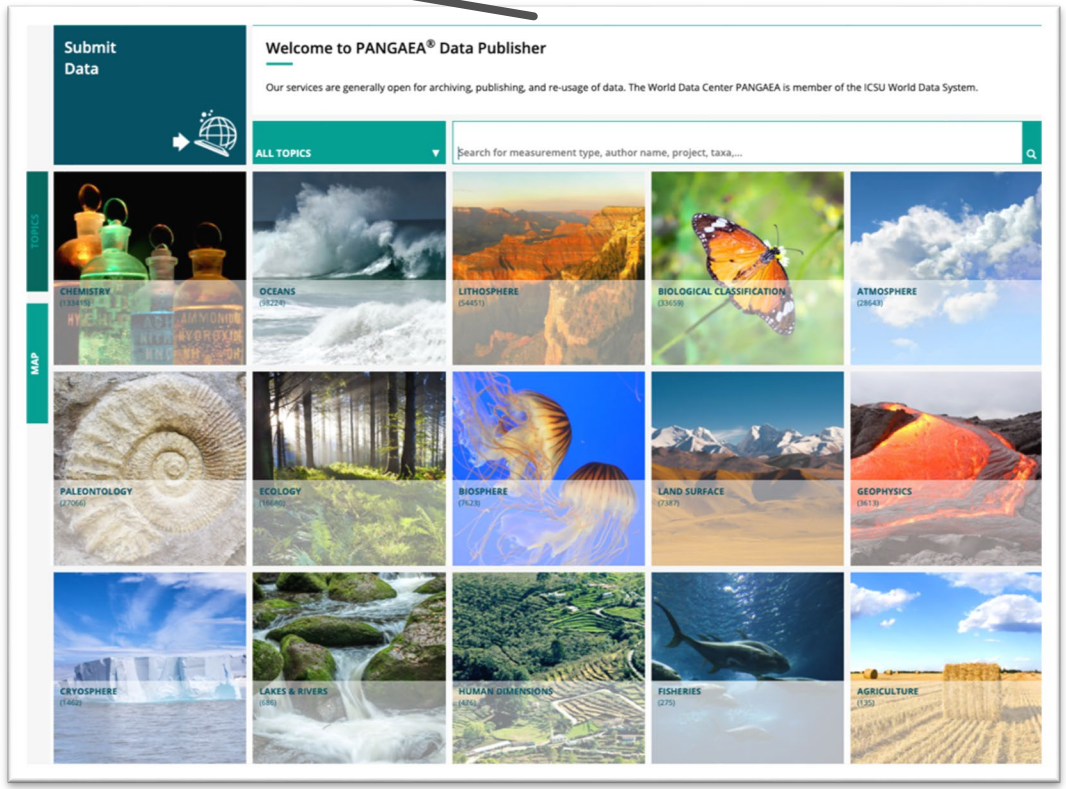


O2A: Observation to Archive & Analyses

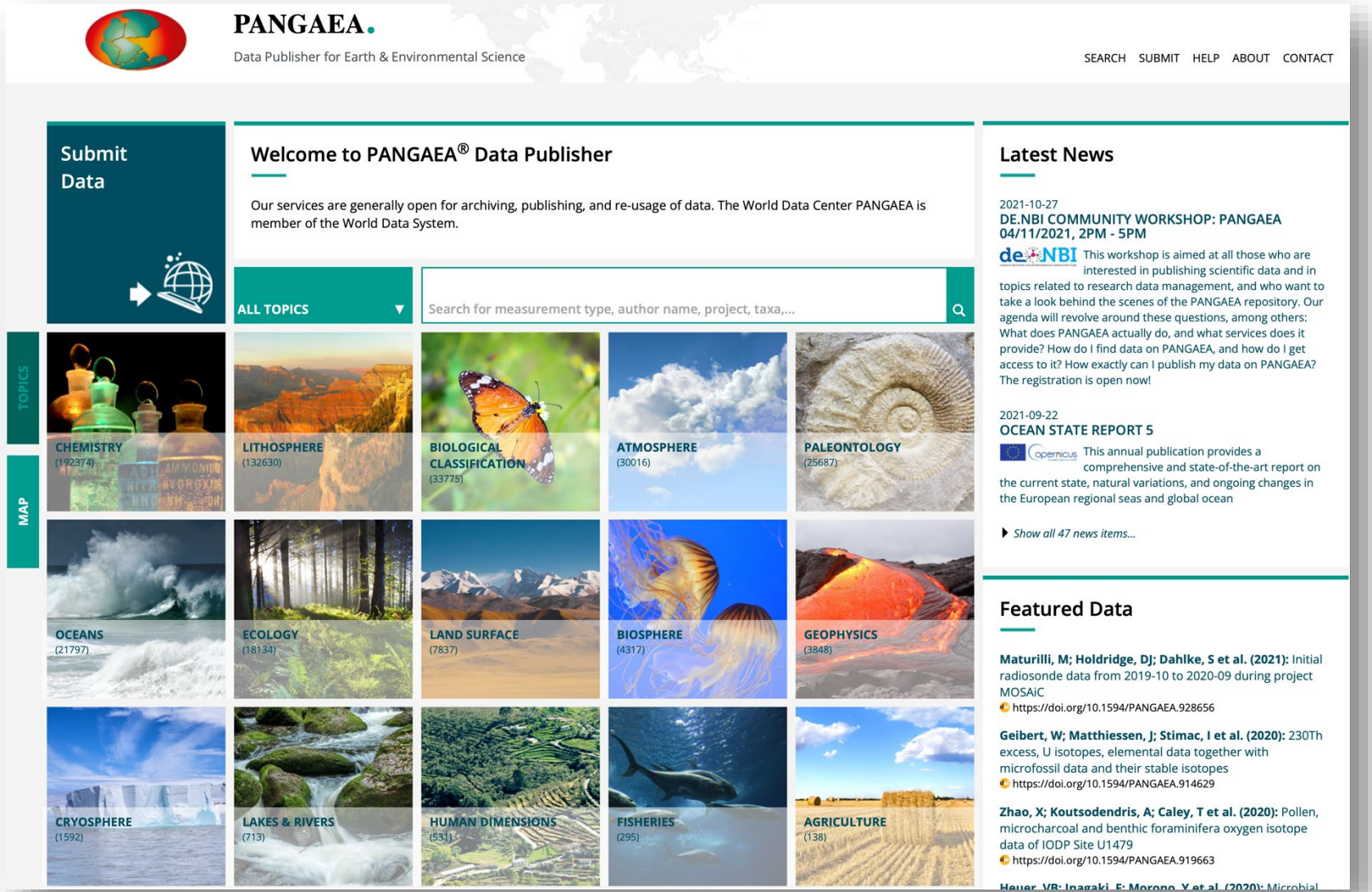


O2A: Data Repositories

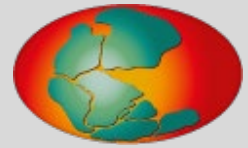




PANGAEA de.NBI Community Workshop: 04/11/2021



PANGAEA in 2021 - Organisation



Hosted by:

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Center for Marine Environmental Sciences

PANGAEA in 2021 - Organisation

Hosted by: ALFRED-WEGENER-INSTITUT HELMHOLTZ-ZENTRUM FÜR POLAR- UND MEERESFORSCHUNG; marum Center for Marine Environmental Sciences

Managed by:

Prof. Dr. Frank Oliver Glöckner

Dr. Janine Felden

Dr. Michael Diepenbroek

PANGAEA in 2021 - Organisation

Hosted by:

ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR- UND MEERESFORSCHUNG

marum
Center for Marine Environmental Sciences

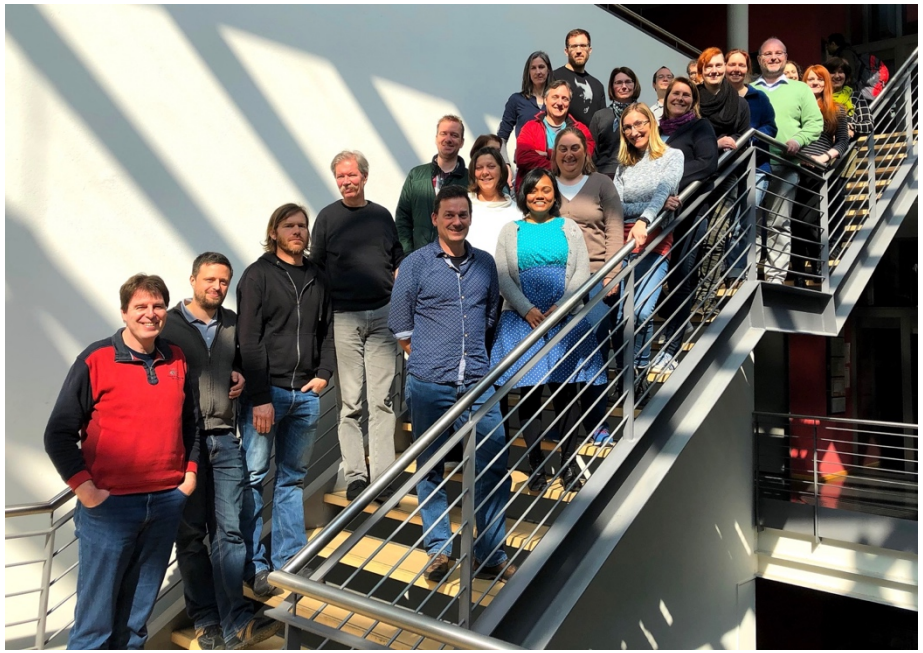
Managed by:


Prof. Dr. Frank Oliver Glöckner


Dr. Janine Felden


Dr. Michael Diepenbroek

Team:



PANGAEA Clients

- Research projects

- Institutions

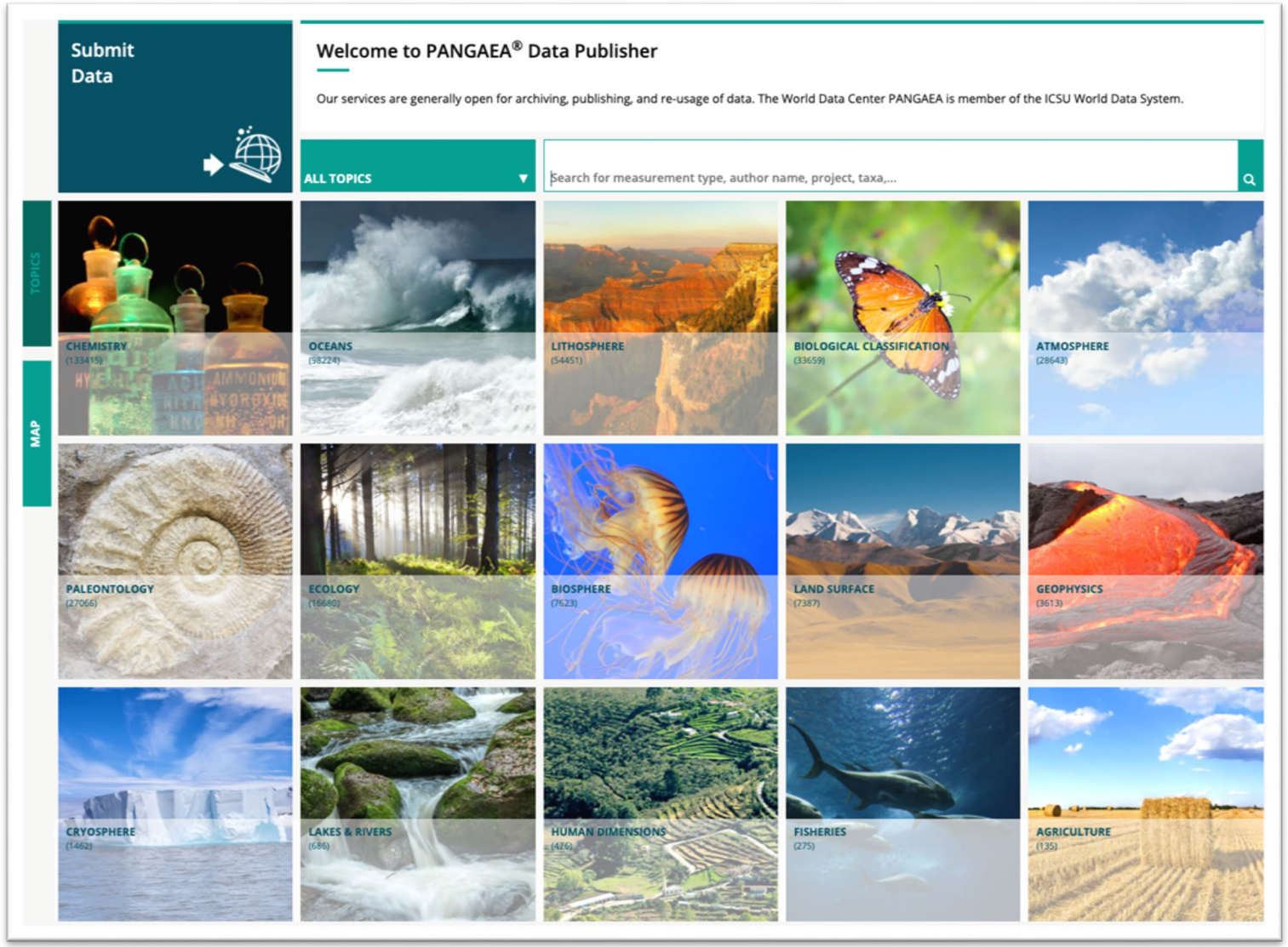
PANGAEA Clients

- Research projects

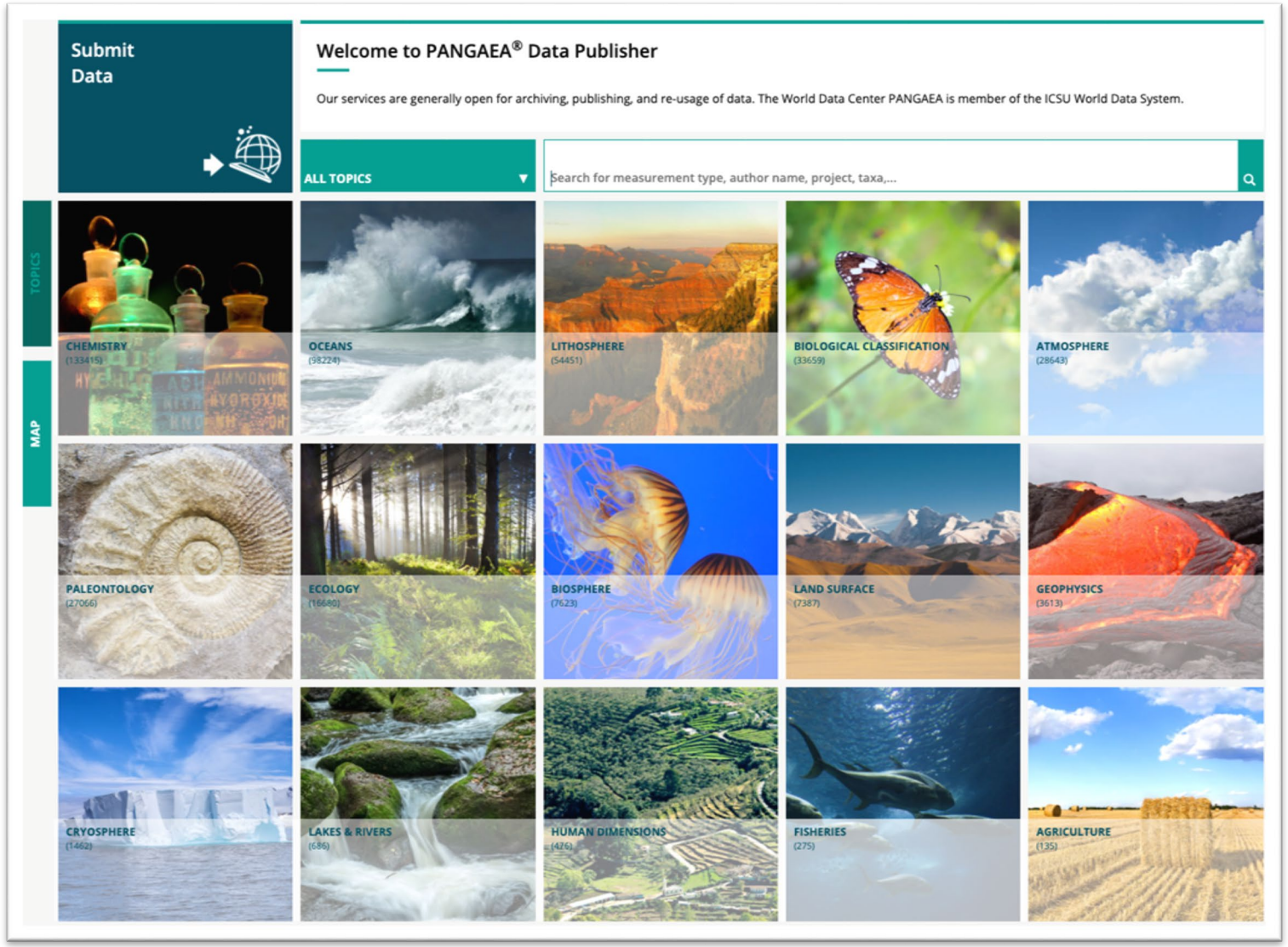
- Institutions

- Individual researcher

PANGAEA in 2021 - Content

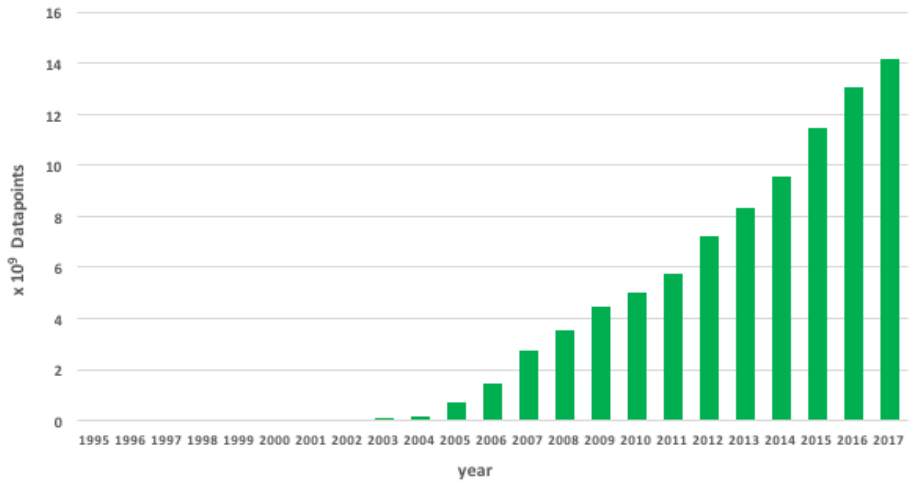


PANGAEA in 2021 – Content

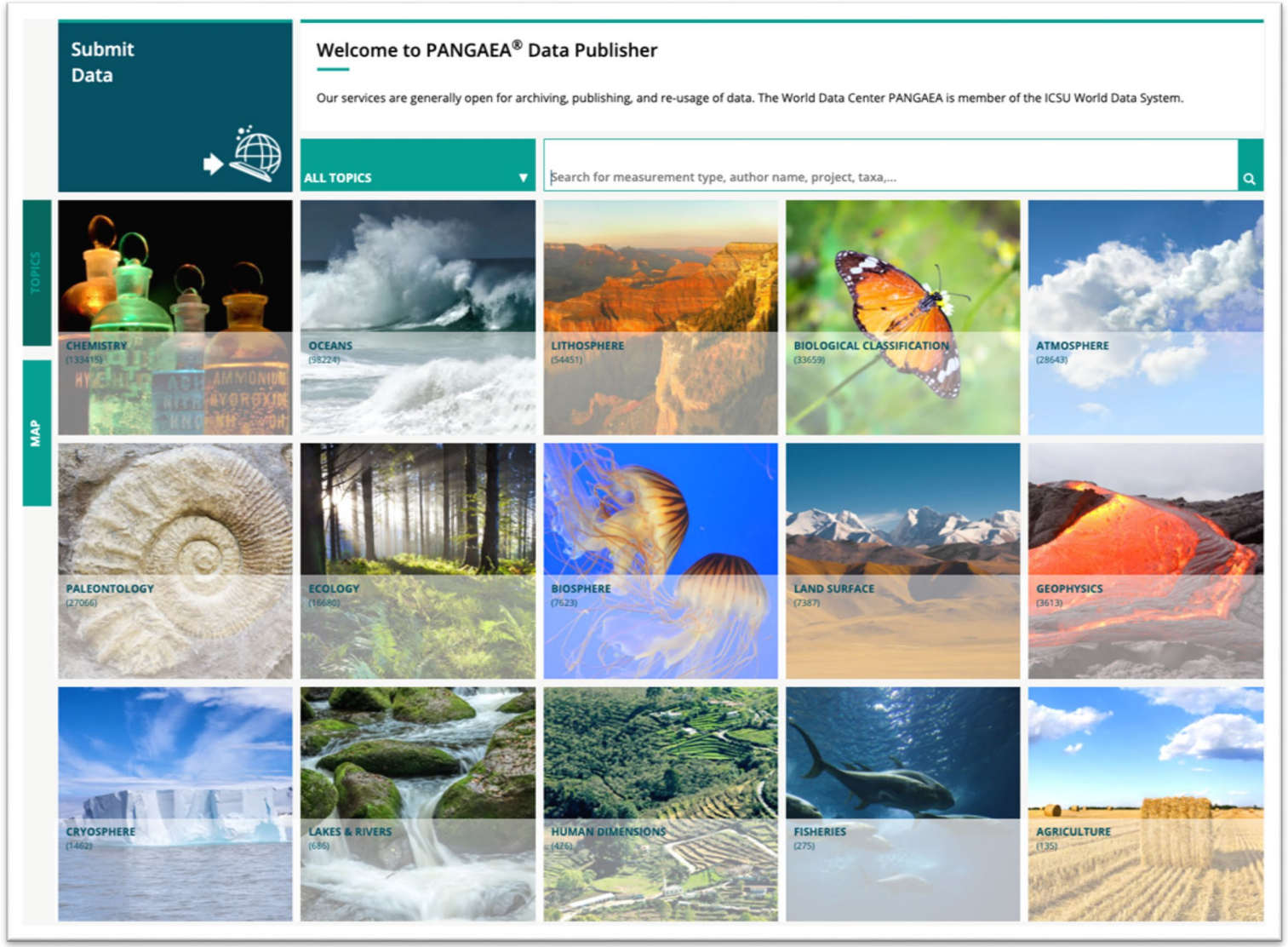


Data sets: > 400,000
Data items: ~ 1.9 billion
Projects: 647

New datasets per year: ~ 10,000



PANGAEA in 2021 – Content



Data Types:

- Tabular data of e.g. environmental time series, biodiversity, sediment samples…
- Binary files e.g. images, movies, netCDF files…

FAIR Data Archiving & Publishing

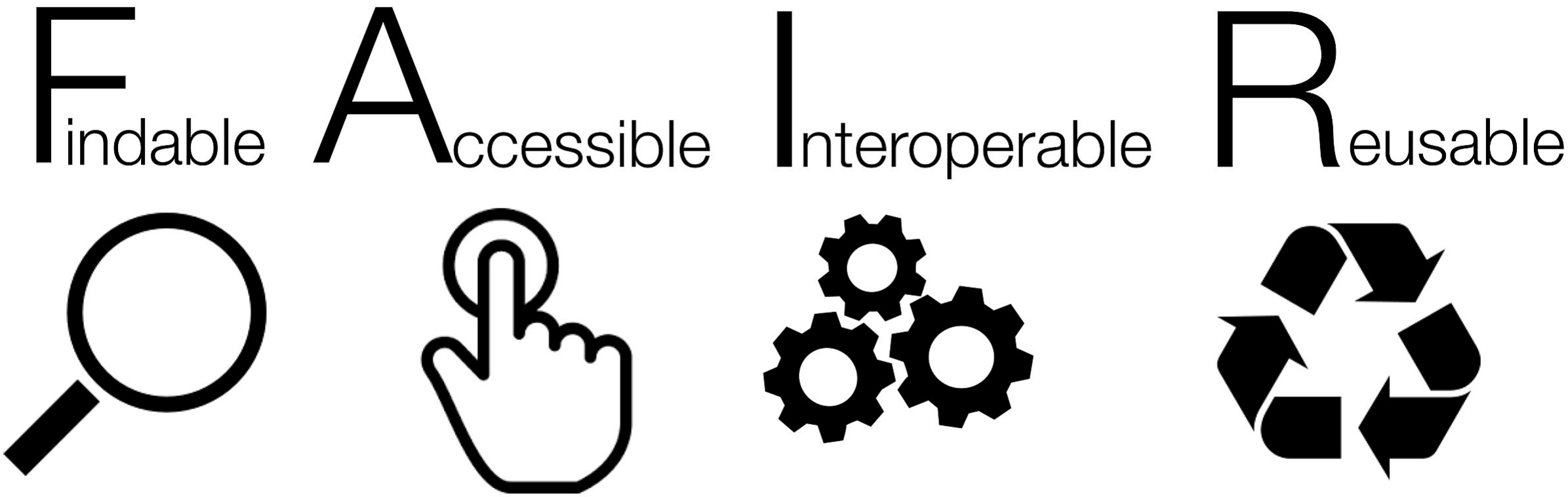
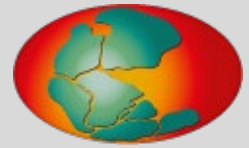


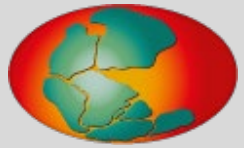
Image credit: FAIR data principles by SangyaPundir at Wikimedia Commons

Benefits of data publication



- Visibility – more citations
- Credibility – more credits
- Exchange – improve accessibility

Benefits of data publication



- 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

Citation and sharing tools

Documentation

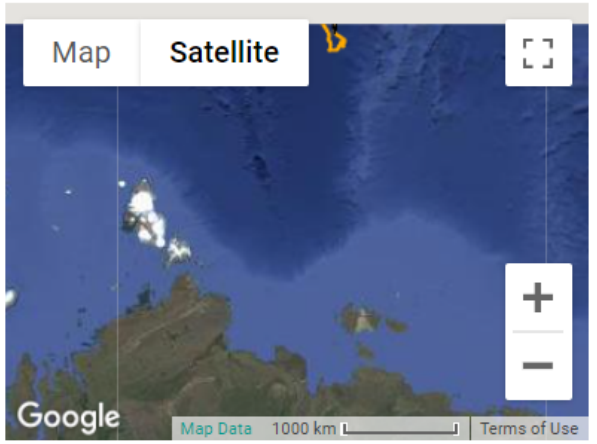
Project acknowledgement

Citation:

Nicolaus, Marcel; Fang, Yin-Chih; Hoppmann, Mario (2020): Snow height on sea ice, meteorological conditions and drift of sea ice from autonomous measurements from buoy 2019S79, deployed during MOSAiC 2019/20. *PANGAEA*, https://doi.pangaea.de/10.1594/PANGAEA.923187 *(DOI registration in progress)*

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



Abstract:

Snow height was measured by the Snow Buoy 2019S79, an autonomous platform, installed on drifting sea ice in the Arctic Ocean during MOSAiC (Leg 1) 2019/20. The resulting time series describes the evolution of snow height as a function of place and time between 07 Oct 2019 and 28 Nov 2010 in sample intervals of 1 hour. The Snow Buoy consists of four independent sonar measurements representing the area (approx. 10 m**2) around the buoy. The buoy was installed on pack ice. In addition to snow height, geographic position (GPS), barometric pressure, air temperature, and ice surface temperature were measured. Negative values of snow height occur if surface ablation continues into the sea ice. Thus, these measurements describe the position of the sea ice surface relative to the original snow-ice interface. Differences between single sensors indicate small-scale variability of the snow pack around the buoy. The data set has been processed, including the removal of obvious inconsistencies (missing values). Records without any snow height may still be used for sea ice drift and meteorological analyses.

Keyword(s): autonomous platform; buoy; drift; snow depth

Further details: Buoy Deployment Report 2019S79 (pdf)

Project(s):

Sea Ice Physics @ AWI (AWI_SeaIce)

Current sea ice maps for Arctic and Antartic (meereisportal.de)

Multidisciplinary Ice-based Distributed Observatory (MIDO)

Multidisciplinary drifting Observatory for the Study of Arctic Climate (MOSAiC)

Multidisciplinary drifting Observatory for the Study of Arctic Climate

Label: MOSAiC
Funded by: *Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven*, grant/award no. AWI_PS122_00

0 * *West-bound Longitude:* 117.911400 * *North-bound*

Sampling metadata

Project(s):

Sea Ice Physics @ AWI (AWI_Sealce)

Current sea ice maps for Arctic and Antartic (meereisportal.de)

Multidisciplinary Ice-based Distributed Observatory (MIDO)

Multidisciplinary drifting Observatory for the Study of Arctic Climate (MOSAiC)

Coverage:

Median Latitude: 85.366409 * *Median Longitude:* 126.990882 * *South-bound Latitude:* 84.548200 * *West-bound Longitude:* 117.911400 * *North-bound Latitude:* 86.006000 * *East-bound Longitude:* 137.639000

Date/Time Start: 2019-10-07T02:00:00 * *Date/Time End:* 2019-11-28T08:02:00

Event(s):

AF-MOSAiC-1_108 (PS122/1_1-146) * *Latitude Start:* 84.871300 * *Longitude Start:* 135.758250 * *Latitude End:* 85.624500 * *Longitude End:* 126.857200 * *Date/Time Start:* 2019-10-07T02:00:00 * *Date/Time End:* 2019-10-28T12:30:32 * *Sensor URI:* Link * *Location:* Arctic Ocean * *Campaign:* AF-MOSAiC-1 (MOSAiC20192020) * *Basis:* Akademik Fedorov * *Method/Device:* Snow buoy (BUOY_SNOW) * *Comment:* Station M2__Measurement:Snow thickness__Comment:__Old Labels:M2_SB05_AWI_20191007_PS122/1_1_1

Campaign: AF-MOSAiC-1

Optional name: MOSAiC20192020
Start: 2019-09-21
End: 2019-10-18
Start location: Tromsø
End location: Arctic Ocean
Mastertrack: doi:10.1594/PANGAEA.909433

Parameter(s):

#	Name	Short Name	Unit	Principal Invest		
1	DATE/TIME	Date/Time		Nicolaus, Marcel		
2	LATITUDE	Latitude		Nicolaus, Marcel		
3	LONGITUDE	Longitude		Nicolaus, Marcel		
4	Snow height	Snow h	m	Nicolaus, Marcel		
5	Snow height	Snow h	m	Nicolaus, Marcel		
6	Snow height	Snow h	m	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	Sensor 3
7	Snow height	Snow h	m	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	Sensor 4
8	Snow height	Snow h	m	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	mean
9	Pressure, atmospheric	PPPP	hPa	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	
10	Temperature, air	TTT	°C	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	
11	Temperature, technical	T tech	°C	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	Equipment body

License:

Size:

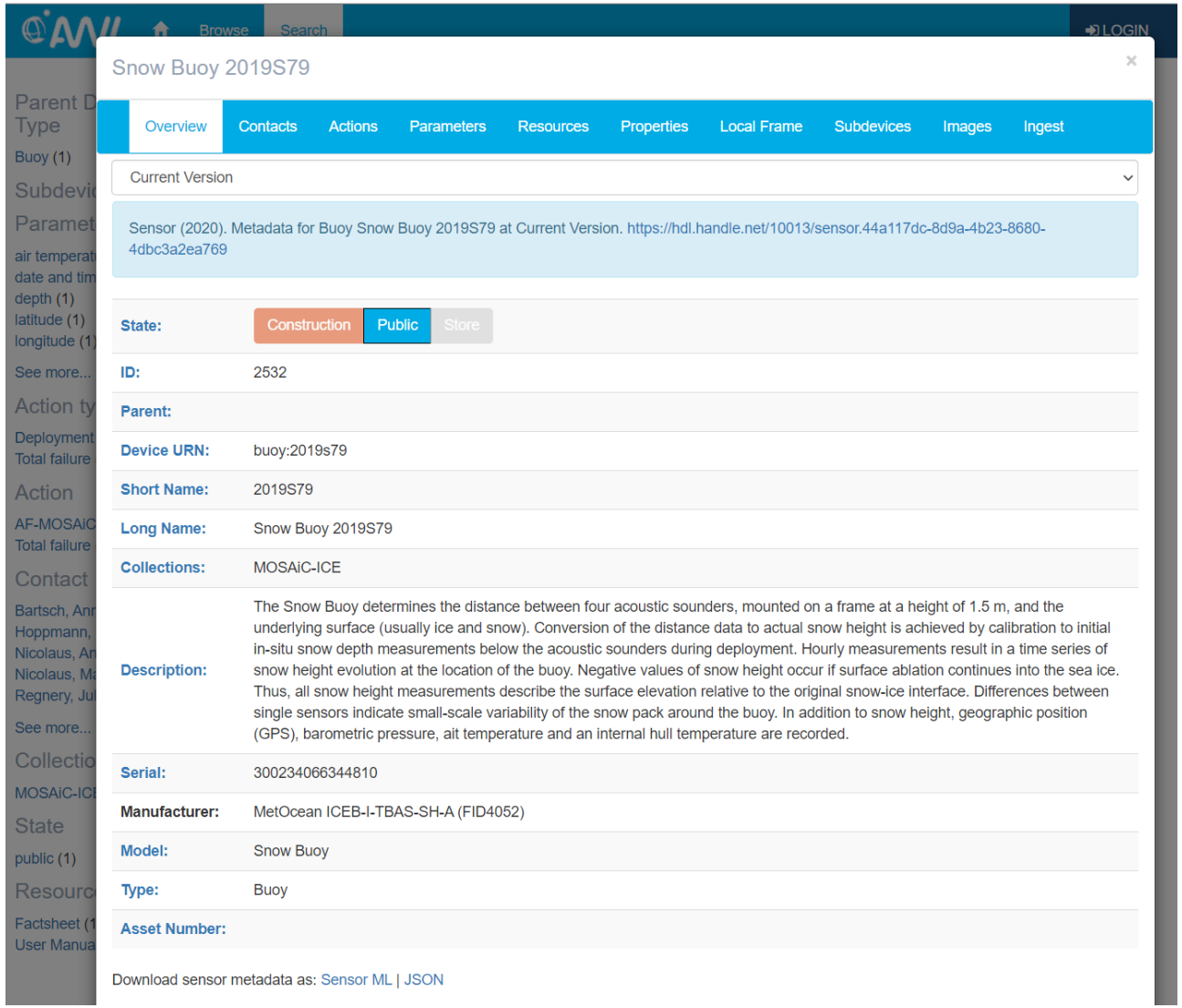
8453 data points

Download Data

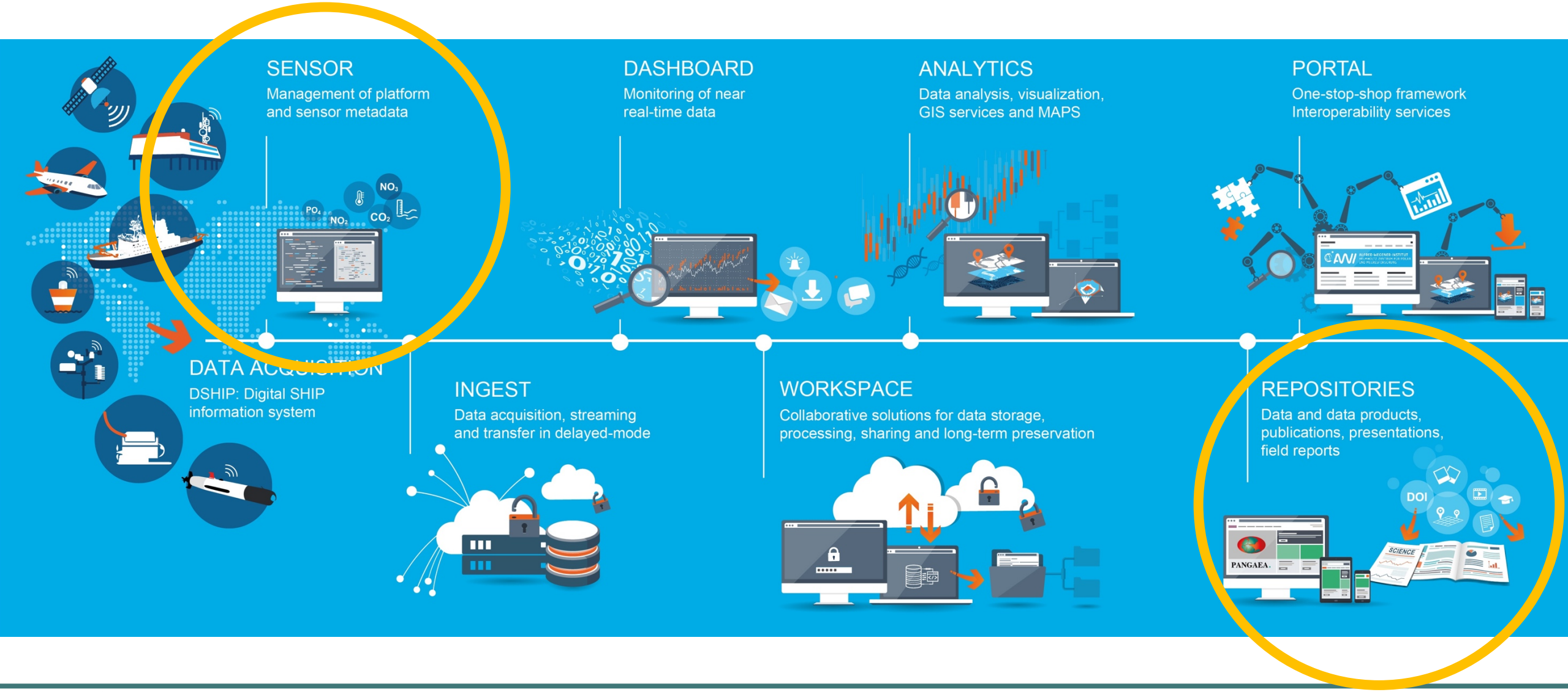
Download dataset as tab-delimited text *(use the following character encoding:* UTF-8: Unicode (PANGAEA default) *)*

View dataset as HTML *(shows only first 2000 rows)*

sensor.awi.de



O2A: Observation to Archive & Analyses



Parameters, units

Data

Event(s): **AF-MOSAiC-1_108** (PS122/1_1-146) * *Latitude Start:* 84.871300 * *Longitude Start:* 135.758250 * *Latitude End:* 85.624500 * *Longitude End:* 126.857200 * *Date/Time Start:* 2019-10-07T02:00:00 * *Date/Time End:* 2019-10-28T12:30:32 * *Sensor URI:* Link * *Location:* Arctic Ocean * *Campaign:* AF-MOSAiC-1 (MOSAiC20192020) * *Basis:* Akademik Fedorov * *Method/Device:* Snow buoy (BUOY_SNOW) * *Comment:* Station M2__Measurement:Snow thickness__Comment:__Old Labels:M2_SB05_AWI_20191007,PS122/1_1-146

Parameter(s):

#	Name	Short Name	Unit	Principal Investigator	Method/Device	Comment
1	DATE/TIME	Date/Time		Nicolaus, Marcel		Geocode
2	LATITUDE	Latitude		Nicolaus, Marcel		Geocode
3	LONGITUDE	Longitude		Nicolaus, Marcel		Geocode
4	Snow height	Snow h	m	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	Sensor 1
5	Snow height	Snow h	m	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	Sensor 2
6	Snow height	Snow h	m	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	Sensor 3
7	Snow height	Snow h	m	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	Sensor 4
8	Snow height	Snow h	m	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	mean
9	Pressure, atmospheric	PPPP	hPa	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	
10	Temperature, air	TTT	°C	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	
11	Temperature, technical	T tech	°C	Nicolaus, Marcel	Snow buoy (BUOY_SNOW)	Equipment body

License:

Size: 8453 data points

Data

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

1 Date/Time	2 Latitude	3 Longitude	4 Snow h [m] (Sensor 1)	5 Snow h [m] (Sensor 2)	6 Snow h [m] (Sensor 3)	7 Snow h [m] (Sensor 4)	8 Snow h [m] (mean)	9 PPPP [hPa]	10 TTT [°C]	11 T tech [°C] (Equipment body)
2019-10-07T02:00:00	84.8720	135.7358						1023.5	-5.9	-2.0
2019-10-07T03:00:00	84.8708	135.7702						1023.2	-6.0	-1.7
2019-10-07T04:00:00	84.8694	135.8062						1023.0	-6.0	-1.6
2019-10-07T05:00:00	84.8676	135.8422	0.114	0.14		0.12	0.125	1022.7	-6.0	-1.5
2019-10-07T06:00:00	84.8654	135.8788	0.114	0.14		0.12	0.125	1022.4	-5.9	-1.4
2019-10-07T07:00:00	84.8630	135.9138	0.124	0.14		0.12	0.128	1022.0	-6.1	-1.3
2019-10-07T08:00:00	84.8606	135.9468	0.124	0.14	0.13	0.12	0.129	1021.6	-6.0	-1.2
2019-10-07T09:00:00	84.8584	135.9796	0.124	0.14	0.13	0.12	0.129	1021.3	-5.6	-1.2
2019-10-07T10:00:00	84.8560	136.0152	0.124	0.14	0.13	0.12	0.129	1021.2	-5.3	-1.1
2019-10-07T11:00:00	84.8536	136.0572	0.124	0.14	0.13	0.12	0.129	1020.5	-5.8	-1.0
2019-10-07T12:00:00	84.8512	136.1066	0.114	0.14	0.13	0.12	0.126	1019.8	-6.0	-1.0

Status (in review) →

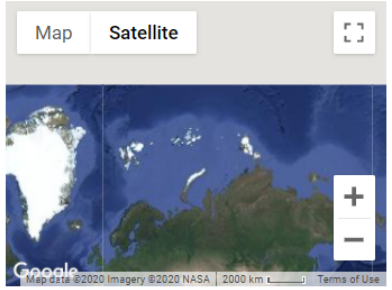
Password protection →

Dataset collection →

Citation:

Granskog, Mats A; Høyland, Knut V; De La Torre, Pedro R; Divine, Dmitry; Katlein, Christian; Itkin, Polona; Raphael, Ian; Olsen, Lasse M (2020): Temperature and heating induced temperature difference measurements from the sea ice mass balance SIMBA 2020T60 [...] PANGAEA, https://doi.pangaea.de/10.1594/PANGAEA.924269 *(dataset in review)*

Facebook Twitter Show Map Google Earth



Abstract:

Temperature and heating-induced temperature differences were measured along a chain of thermistors. SIMBA 2020T60 (a.k.a. HAVOC 0101) is an autonomous instrument that was installed on drifting sea ice in the Arctic Ocean during the 2nd leg of MOSAiC in February 2020. The thermistor chain was 10m long and included 250 sensors with a regular spacing of 4cm.

The resulting time series describes the evolution of temperature and temperature differences after two heating cycles of 30 and 120 s as a function of place, depth and time between 08 Jan 2020 and 22 Apr 2020 in sample intervals of 6 hours for temperature and 24 hours for temperature differences. The buoy was installed on the ridge crest known as SIRO.

In addition to temperature, geographic position, barometric pressure, air temperature measured 1m over the ice level, tilt and compass were measured. The data set has been processed as follows: obvious inconsistencies (missing values) and unrealistic values in position have been removed.

This instrument was deployed as part of the project Ridges - Safe HAVens for ice-associated Flora and Fauna in a Seasonally ice-covered Arctic OCean (HAVOC).

Keyword(s): Autonomous buoy; Ice mass balance; Temperature; Thermistor

Further details:

SIMBA HAVOC0101 (SRSL UI 02943) deployment description (pdf)

SIMBA HAVOC0101 (SRSL UI 02943) deployment record (pdf)

Project(s):

Ridges - Safe HAVens for ice-associated Flora and Fauna in a Seasonally ice-covered Arctic OCean (HAVOC)

Current sea ice maps for Arctic and Antartic (meereisportal.de)

Multidisciplinary drifting Observatory for the Study of Arctic Climate (MOSAiC)

Coverage:

Median Latitude: 86.585397 * *Median Longitude:* 51.011861 * *South-bound Latitude:* 84.101210 * *West-bound Longitude:* 7.594640 * *North-bound Latitude:* 88.653070 * *East-bound Longitude:* 115.615480

Date/Time Start: 2020-01-08T09:00:17 * *Date/Time End:* 2020-04-22T03:00:16

Size: 4 datasets

Download Data (login required)

Download **ZIP** file containing all datasets as tab-delimited text *(use the following character encoding:* UTF-8: Unicode (PANGAEA default) *)*

Datasets listed in this bundled publication

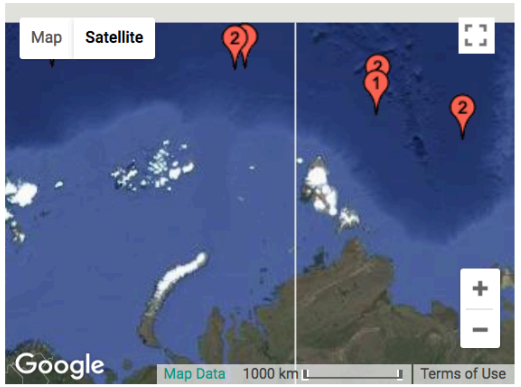
1. **Granskog, MA; Høyland, KV; De La Torre, PR et al. (2020):** Auxiliary data from the sea ice mass balance SIMBA 2020T60. https://doi.pangaea.de/10.1594/PANGAEA.924251
2. **Granskog, MA; Høyland, KV; De La Torre, PR et al. (2020):** Heating induced temperature difference measurements from the sea ice mass balance SIMBA 2020T60: 120 s after the heating cycle. https://doi.pangaea.de/10.1594/PANGAEA.924268
3. **Granskog, MA; Høyland, KV; De La Torre, PR et al. (2020):** Heating induced temperature difference measurements from the sea ice mass balance SIMBA 2020T60: 30 s after the heating cycle. https://doi.pangaea.de/10.1594/PANGAEA.924267
4. **Granskog, MA; Høyland, KV; De La Torre, PR et al. (2020):** Temperature measurements from the sea ice mass balance SIMBA 2020T60. https://doi.pangaea.de/10.1594/PANGAEA.924265

FAIR Data Archiving & Publishing

Citation:

Fernández-Méndez, Mar; Wenzhöfer, Frank; Peeken, Ilka; Sørensen, Heidi L; Glud, Ronnie N; Hendricks, Stefan; Nicolaus, Marcel; Katlein, Christian; Nöthig, Eva-Maria; Bakker, Karel; Boetius, Antje (2014): Biogeochemical characterization of pennate diatom and Melosira arctica ice algal aggregates in the Central Arctic Ocean collected in summer 2011 and 2012. *PANGAEA*, https://doi.org/10.1594/PANGAEA.832345,

Supplement to: **Fernández-Méndez, Mar; Wenzhöfer, Frank; Peeken, Ilka; Sørensen, Heidi L; Glud, Ronnie N; Boetius, Antje; Vopel, Kay (2014):** Composition, Buoyancy Regulation and Fate of Ice Algal Aggregates in the Central Arctic Ocean. *PLoS ONE*, **9(9)**, e107452, https://doi.org/10.1371/journal.pone.0107452



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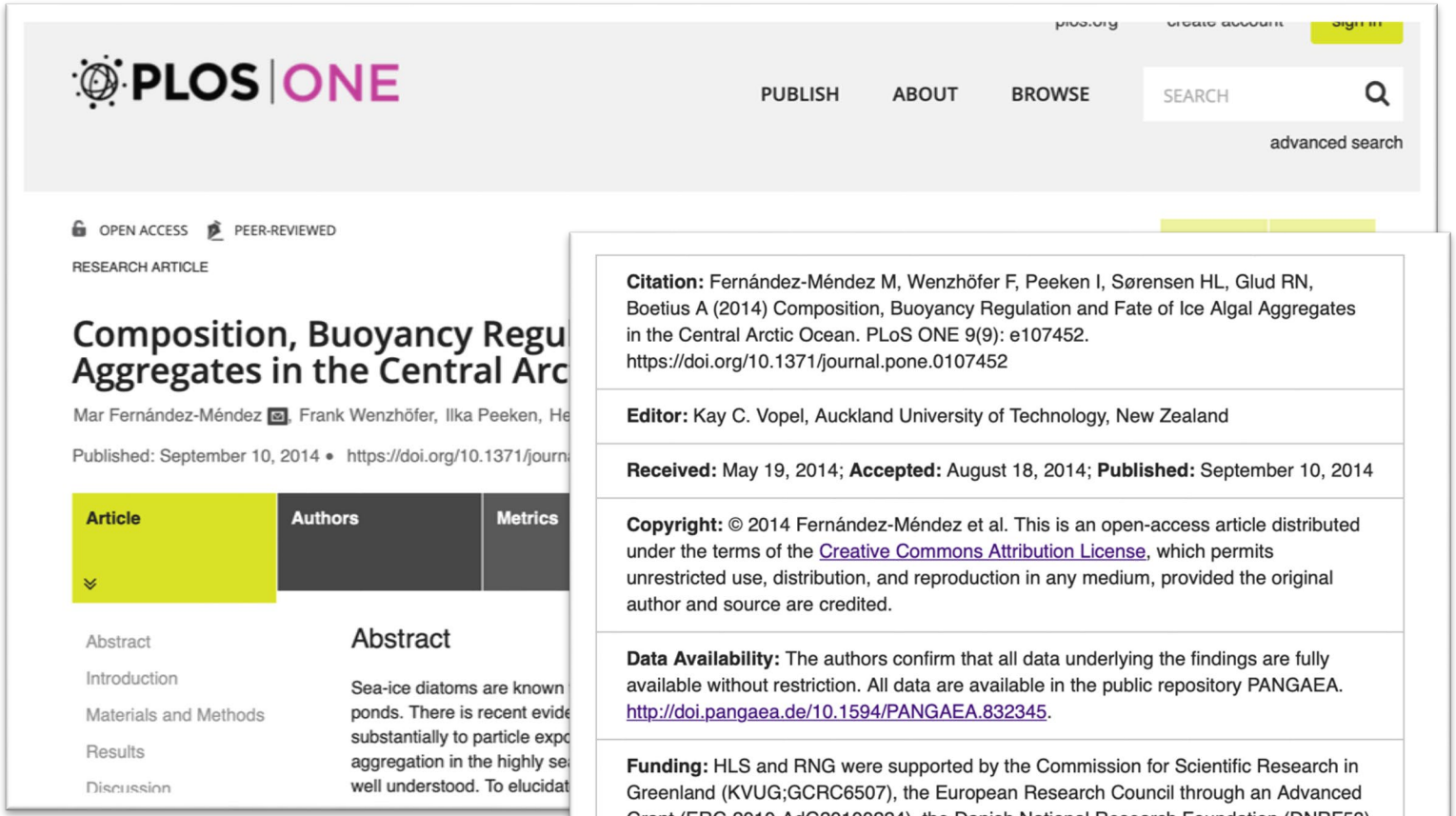
Abstract:

Sea-ice diatoms are known to accumulate in large aggregates in and under the sea ice including melt ponds. In the Arctic, they can contribute substantially to particle export when sinking from the ice. The role and regulation of microbial aggregation in the highly seasonal, nutrient- and light-limited Arctic sea-ice ecosystem is not yet well understood, and may vary in relation to the fate of the Arctic sea-ice cover. To elucidate the mechanism controlling the formation and export of algal aggregates from sea ice, we investigated samples taken in late summer 2011 and 2012, during two cruises to the Eurasian Basin of the Central Arctic Ocean. Dense, spherical aggregates composed mainly of pennate diatoms, and filamentous aggregates formed by Melosira arctica were found in different degradation stages, with carbon to Chlorophyll a ratios ranging from 110 to 66700, and carbon to nitrogen molar ratios of 8-35 and 9-40, respectively. Fresh sub-ice algal aggregate densities ranged between 1 and 17 aggregates/m**2, corresponding to a net primary production of 0.4-40 mg C/m**2/d, contributing 3-80% of total biomass and up to 94% of total production at a local scale. A key factor controlling buoyancy of the aggregates was light intensity, regulating photosynthetic oxygen production and flotation by gas bubbles trapped within the mucous matrix, even at low ambient nutrient concentrations. Our data was used to evaluate the factors regulating the distribution and importance of the Arctic algal aggregates as carbon source for pelagic and benthic communities.

Make Your Data Citation Count!



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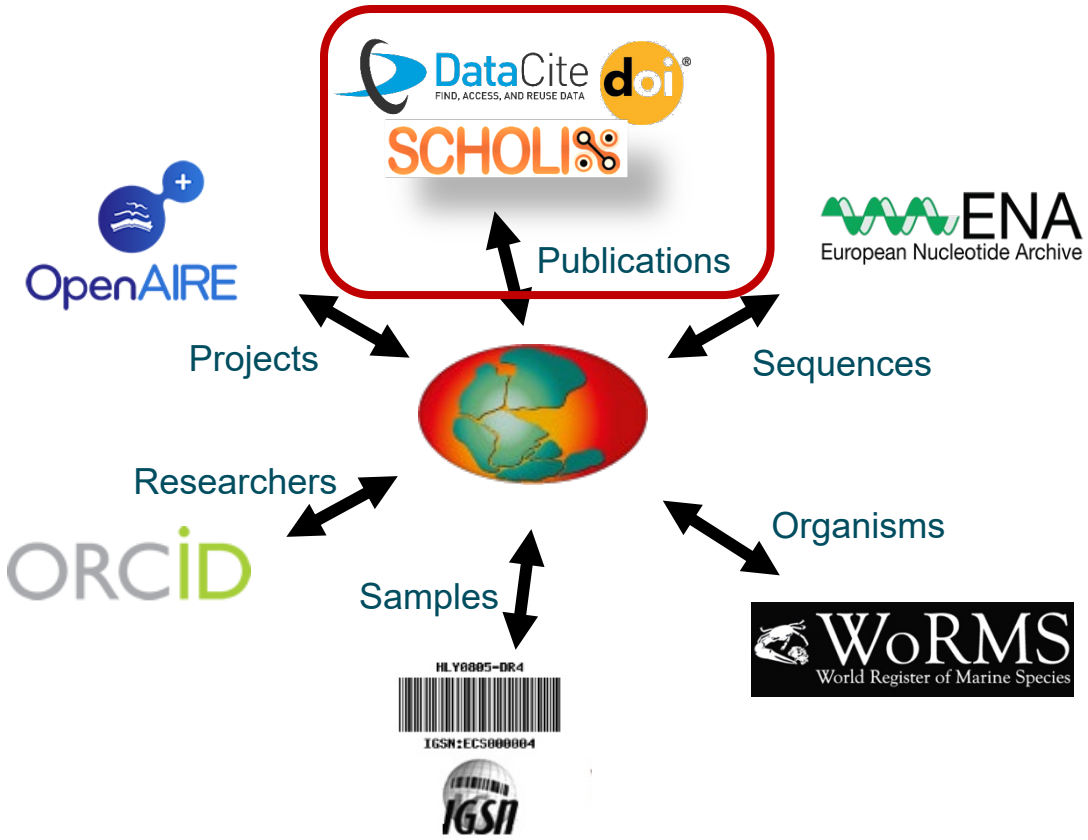

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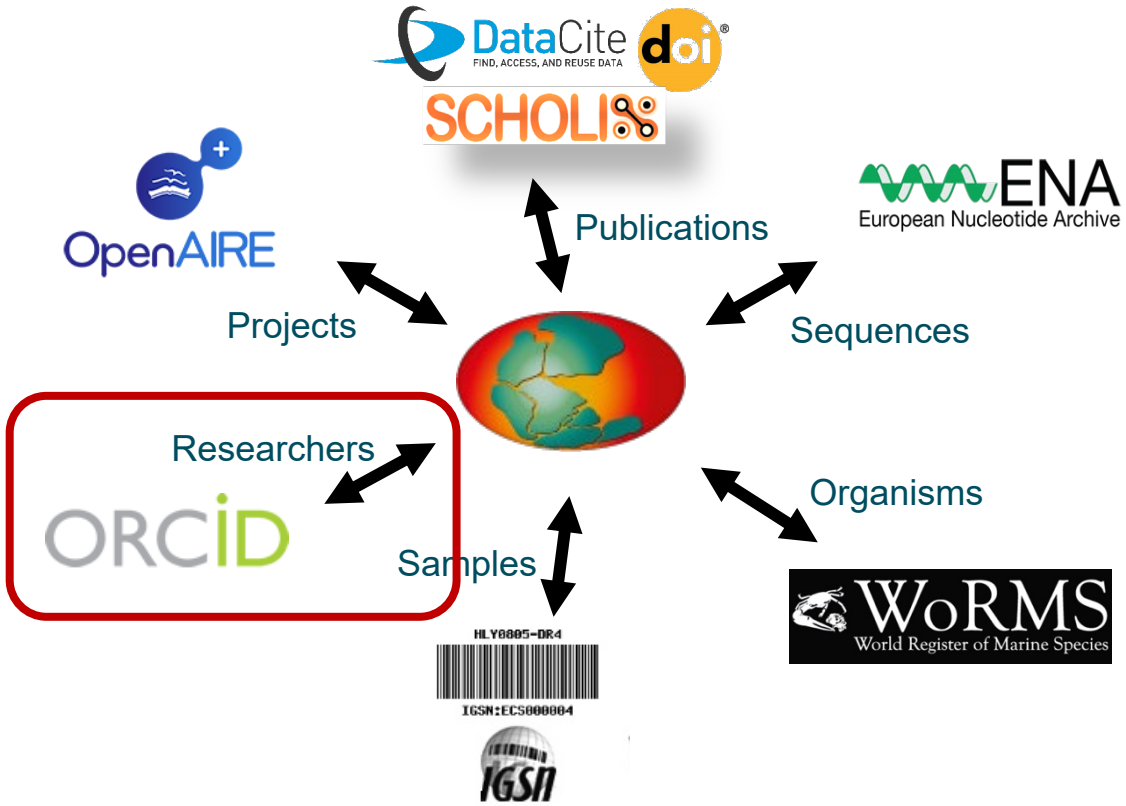

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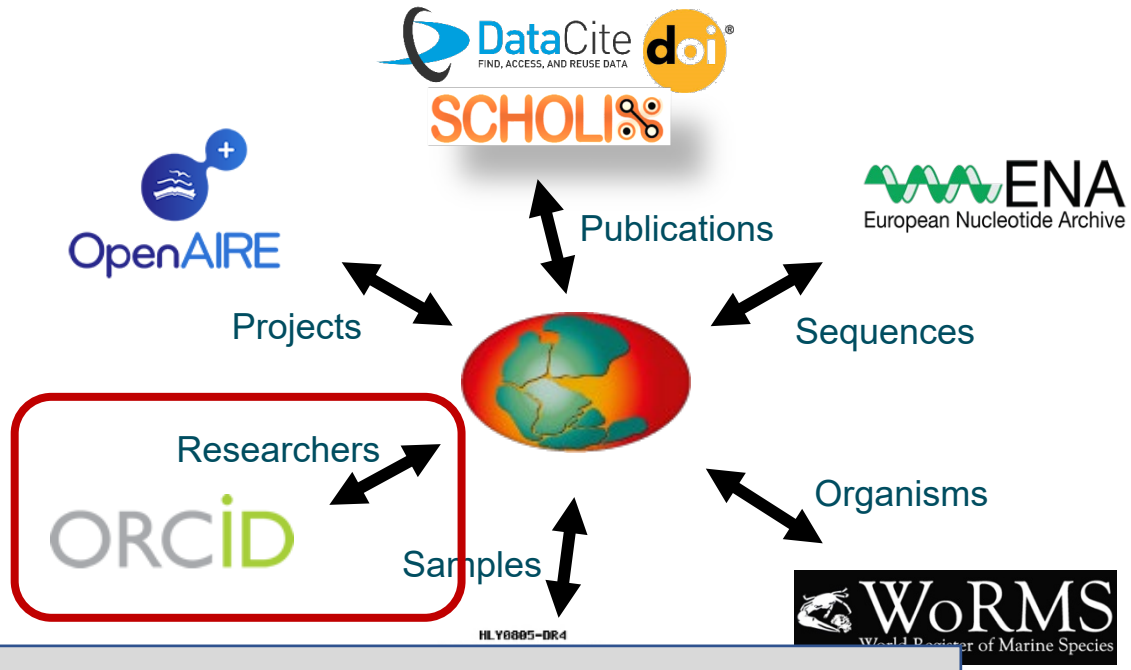


ORCID: Open Researcher and Contributor ID is a non-proprietary alphanumeric code to uniquely identify scientific and other academic authors and contributors.

Cross Referencing - Linking

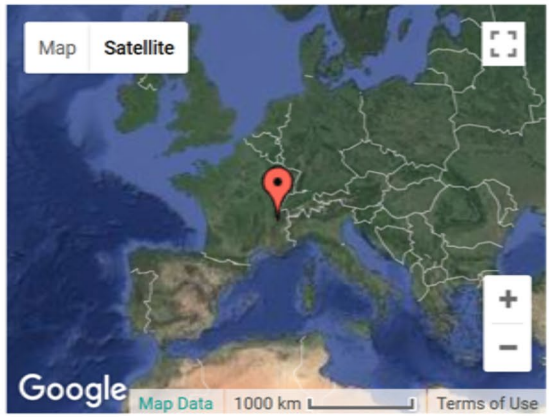
Author-PID:

Citation:

Bajard, Manon; Sabatier, Pierre; David, Fernand; Develle, Anne-Lise; Reyss, Jea… Louis; Fanget, Bernard; Malet, Emman… n, Laurent; Crouzet, Christia… d, Fabien (2015): Chemic… e THU10-Mastercore. *PANGAEA*, https://doi.org/10.1594/PANGAEA.855427,

Sabatier, Pierre
https://orcid.org/0000-0002-9620-1514
pierre.sabatier@univ-savoie.fr

In supplement to: Bajard, M et al. (2015): Erosion record in Lake La Thuile sediments (Prealps, France): Evidence of montane landscape dynamics throughout the Holocene. *The Holocene*, **26(3)**, 350-364, https://doi.org/10.1177/0959683615609750



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Coverage:

Latitude: 45.530000 * *Longitude:* 6.056700

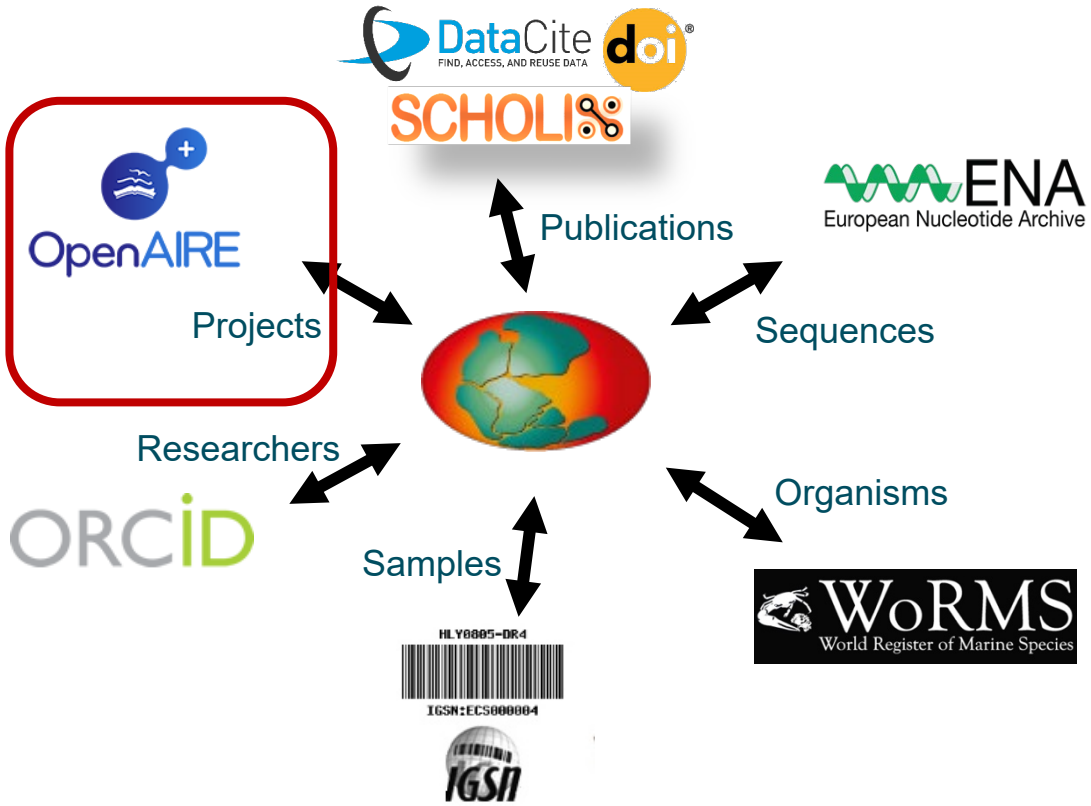
Date/Time Start: 2012-07-13T08:28:42 * *Date/Time End:* 2013-05-22T12:25:30

Minimum DEPTH, sediment/rock: 0.02000 m * *Maximum DEPTH, sediment/rock:* 6.23000 m

Event(s):

THU10-Mastercore * *Latitude:* 45.530000 * *Longitude:* 6.056700 * *Date/Time:* 2010-04-25T00:00:00 * *Elevation:* 874.0 m * *Device:* Piston corer (PC) * *Comment:* IGSN of cores: THU10-P1: IEFRA00BA; THU10-I: IEFRA00BB

Cross Referencing - Linking



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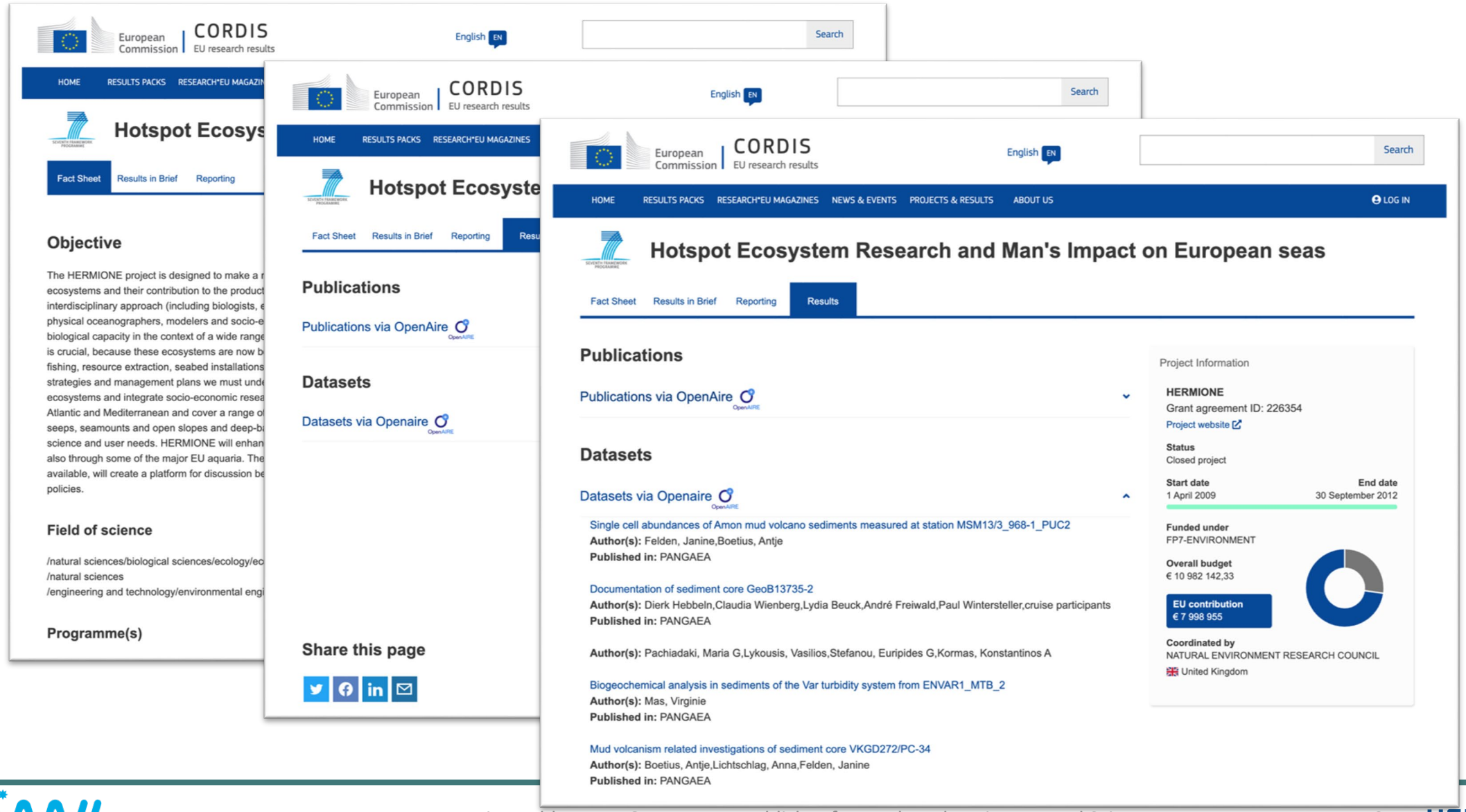
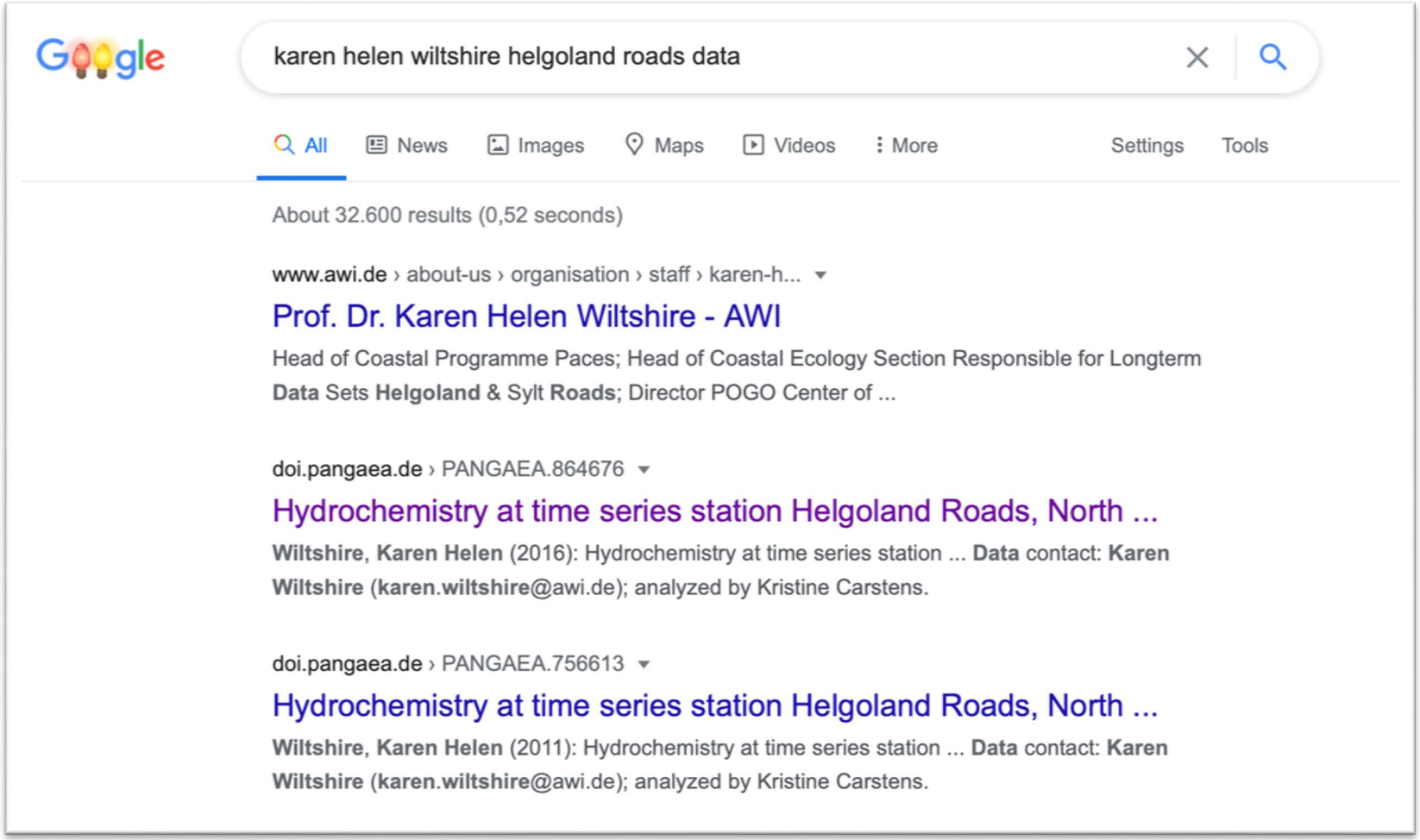


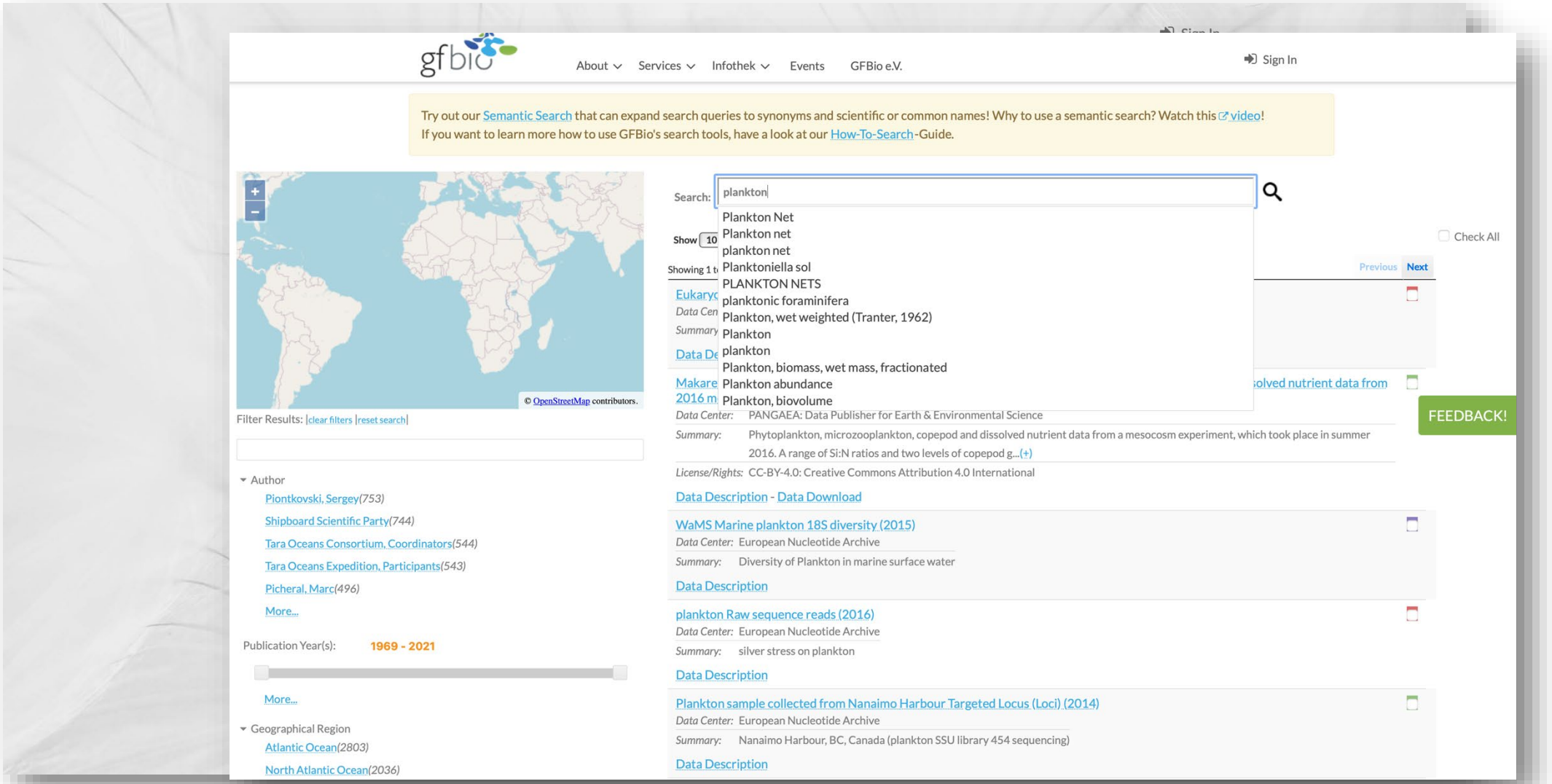
Data Access

Data Access - Google Search



Data Access – Community Portal (e.g. GFBio)

Data Access – Community Portal (e.g. GFBio)



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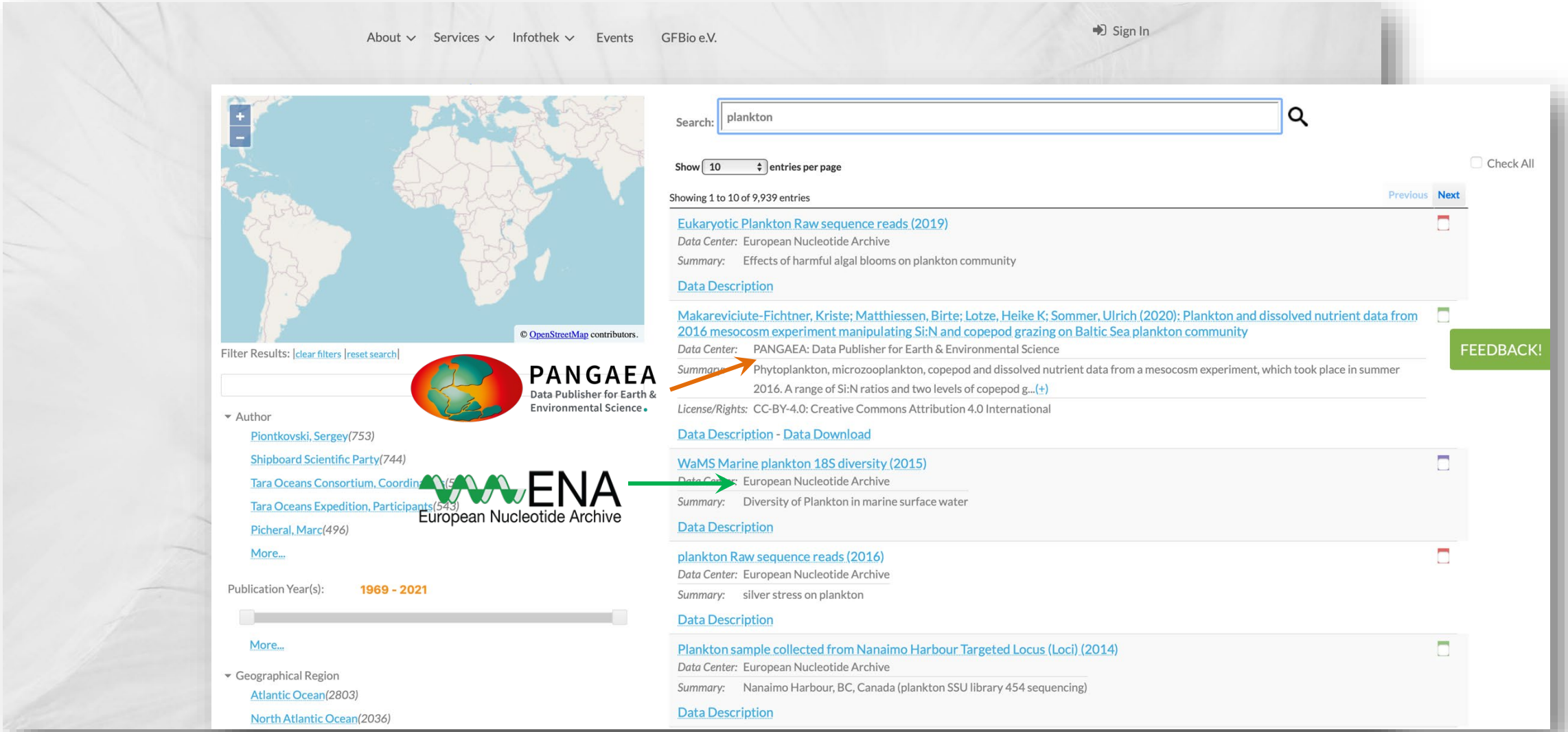

Data Access - Webportal

Data Access - Webportal

Data Re-Use


Janine Felden
PANGAEA.
ALL TOPICS
Temperature Oxygen Nitrate
SEARCH
SUBMIT
ABOUT
CONTACT
Filter by...
Atlantic Ocean
Dataset Author
WOCE Upper Ocean Thermal, UOT (4171)
WOCE Hydrographic Programme, WHP (138)
Fahrbach, Eberhard (4)
Rohardt, Gerd (4)
Gouriou, Yves (2)
Mercier, Herlé (2)
Bersch, Manfred (1)
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2010 (8)
2006 (1564)
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1996 (1)
1993 (1)
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Animalia (10)
Arthropoda (10)
Biological Classification (10)
Organic Chemistry (2)
Project
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Related to: WOCE (2002): World Ocean Circulation Experiment, Global Data, Version 3.0. WOCE International Project Office, WOCE Report, Southampton, UK; published by U.S. National Oceanographic Data Center, Silver Spring
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https://doi.org/10.1594/PANGAEA.837536 - Score: 16.9
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SHOW MAP
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DATA WAREHOUSE
Map
Satellite
Google
Map Data
2000 km
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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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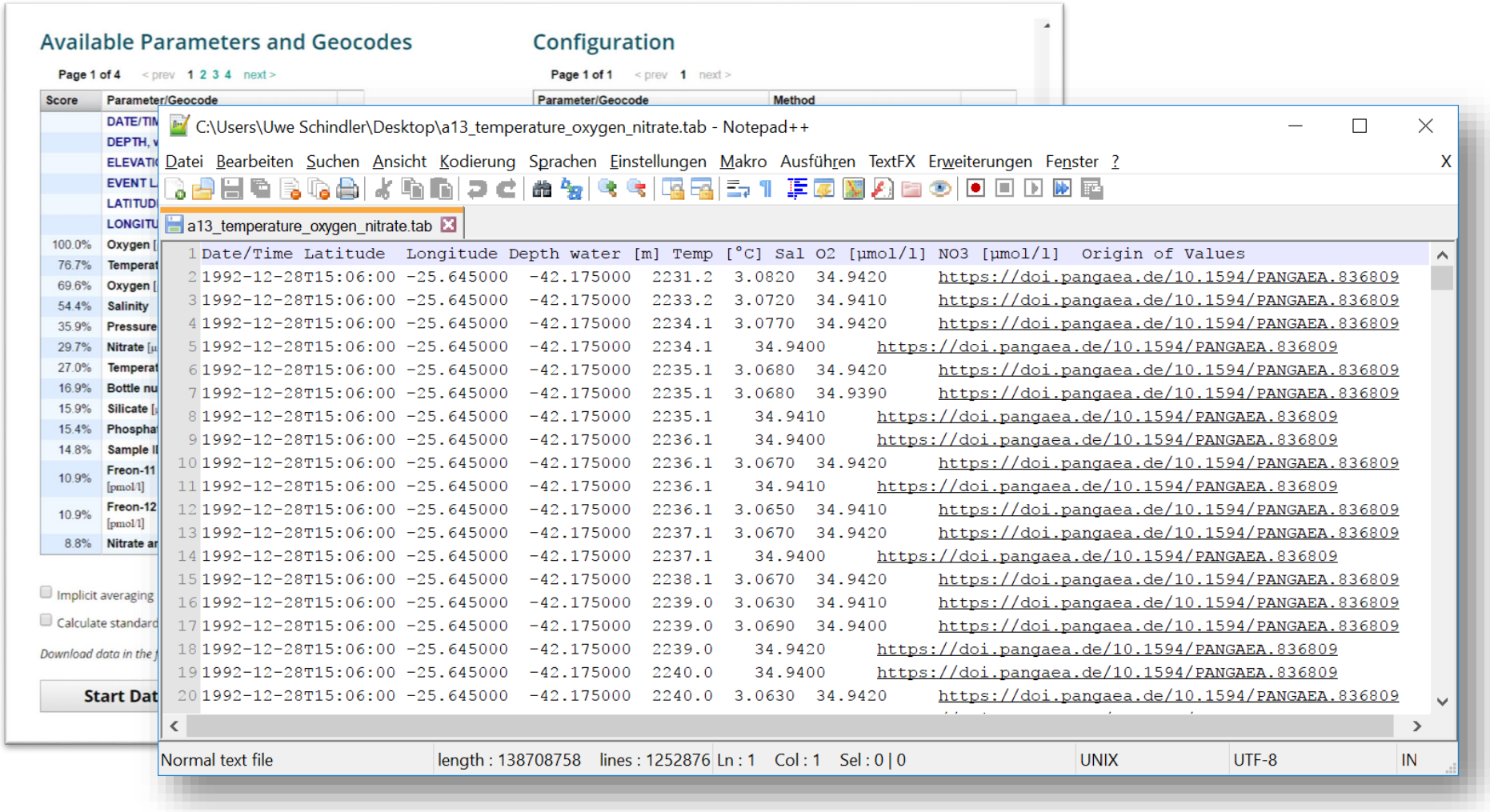
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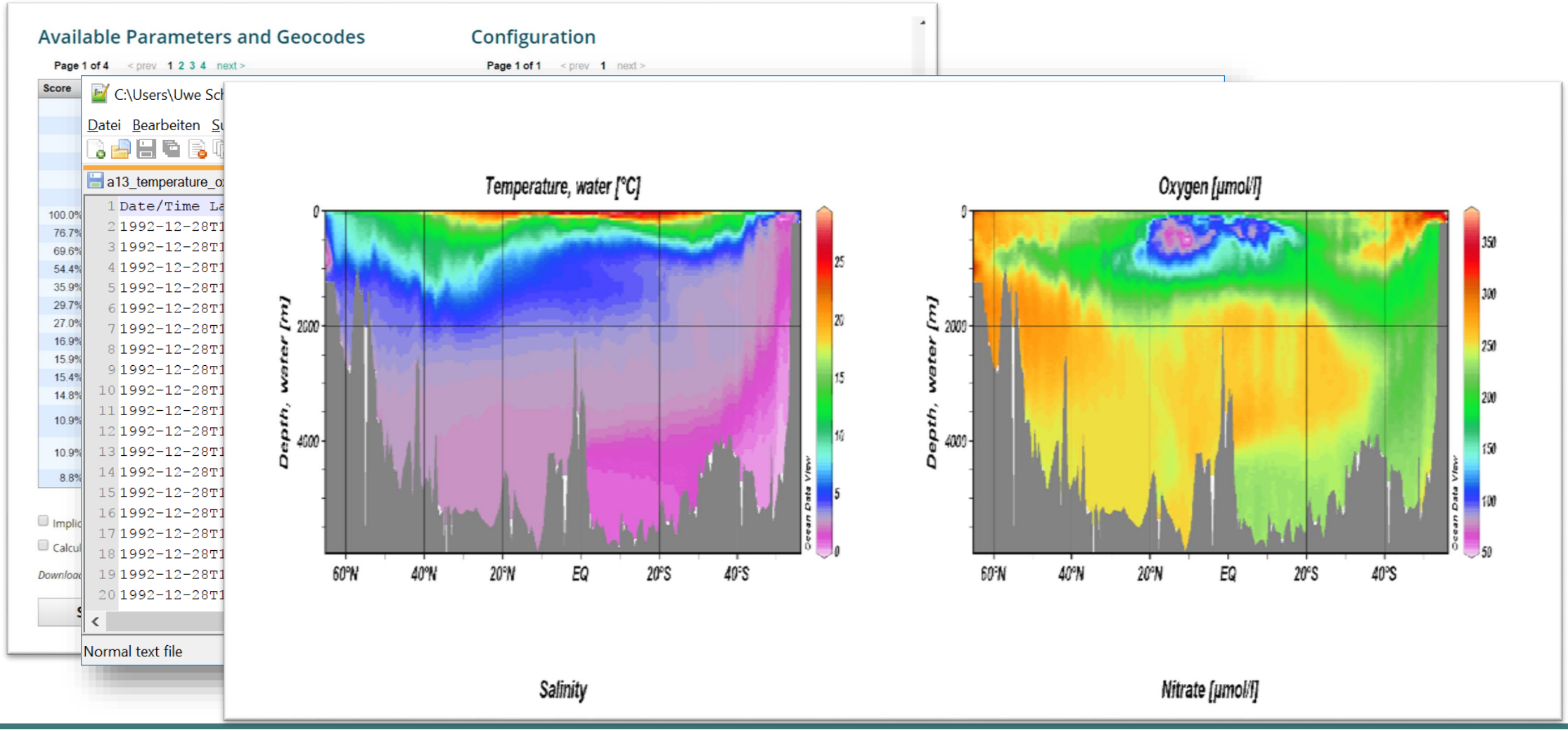
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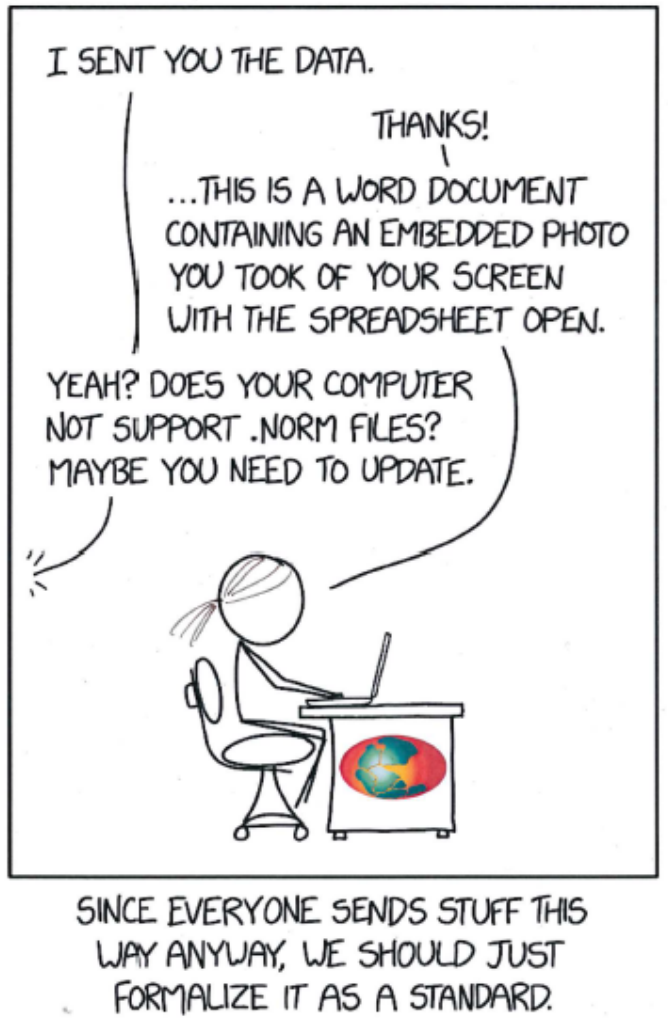

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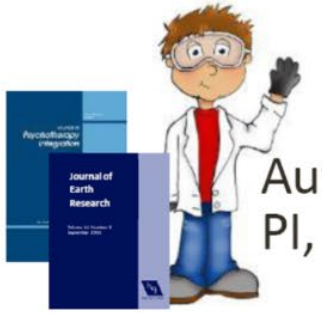
Parameter [unit]

Who?



Author(s), PI, Article

Where?

Latitude/Longitude

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

When?

Date, Age...

How?

Method

Please Specify Metadata

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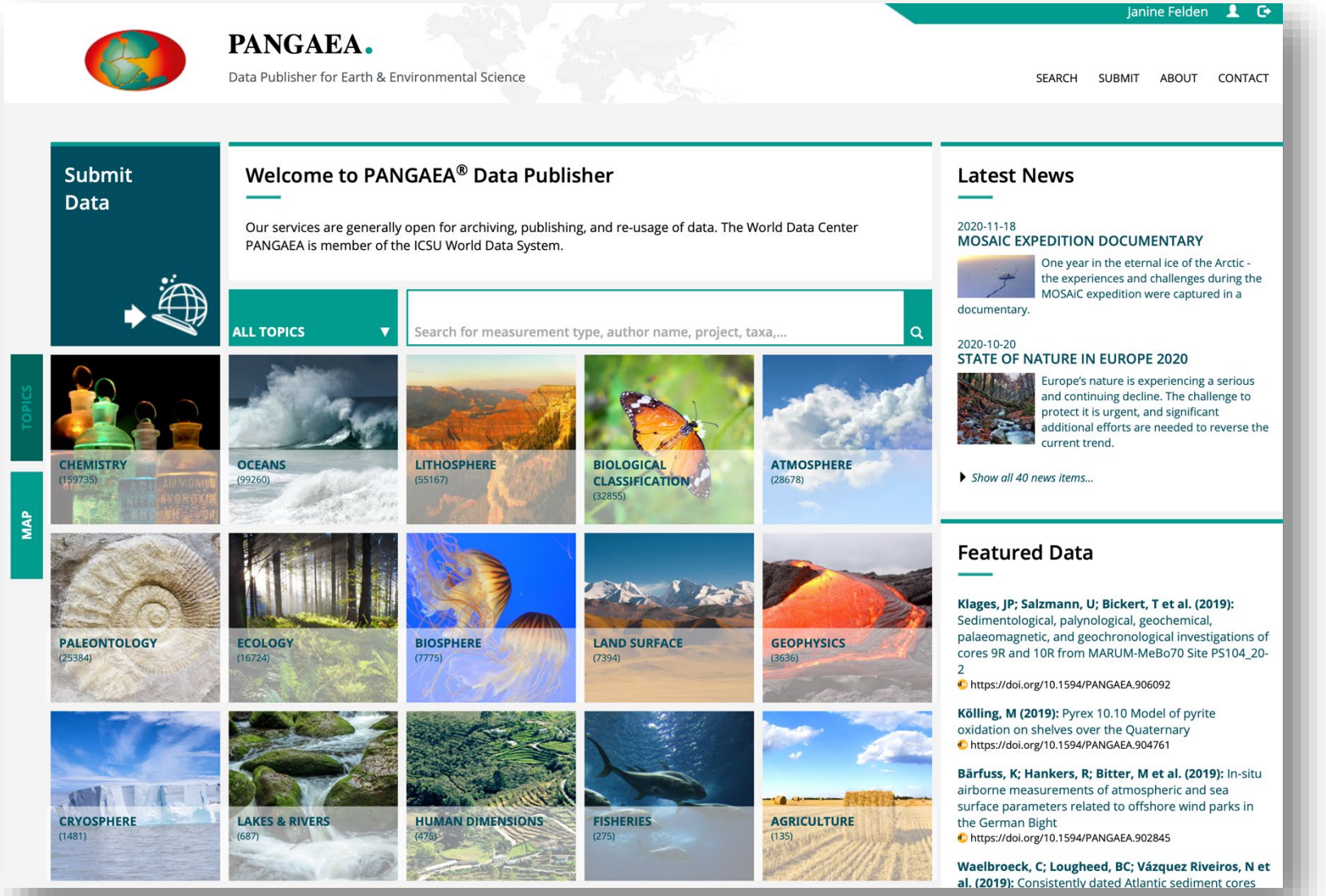

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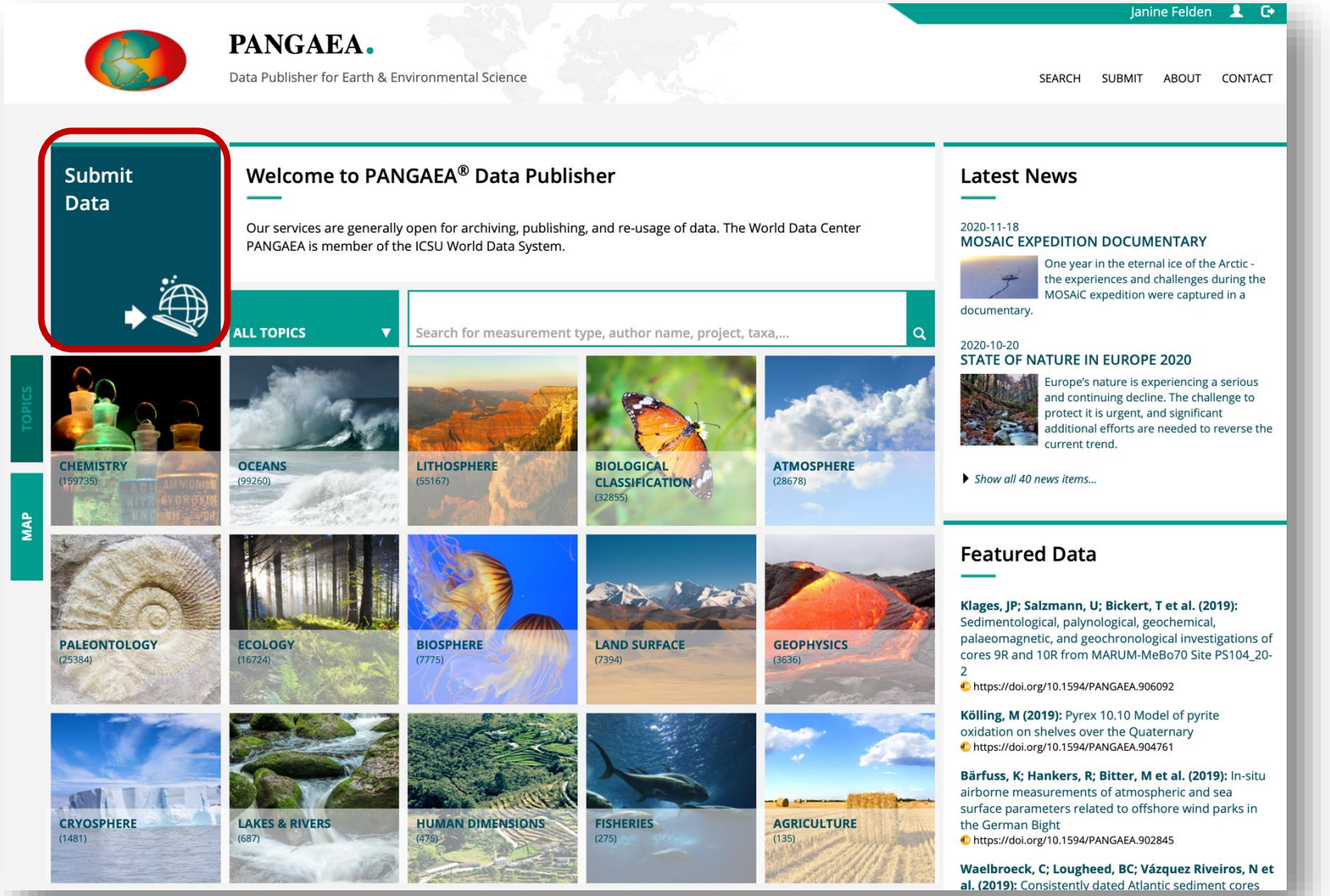

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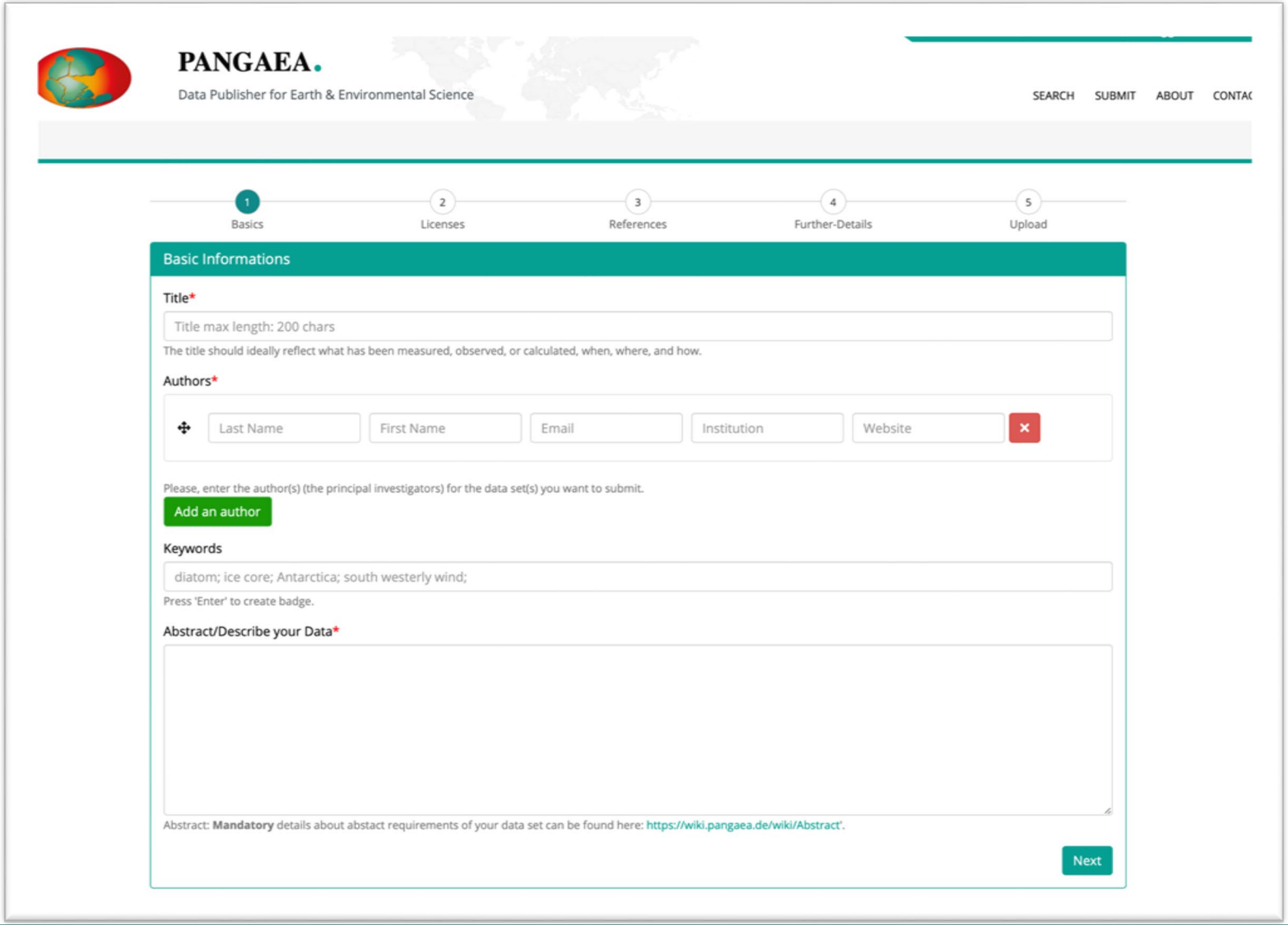

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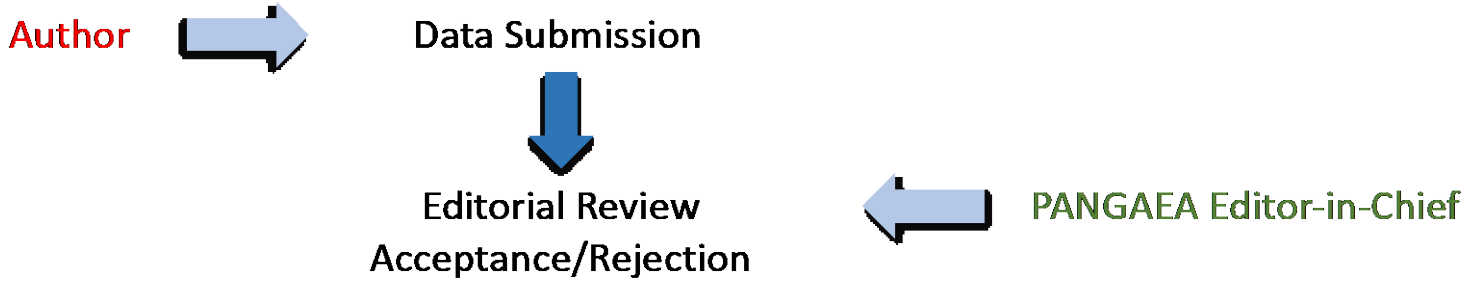

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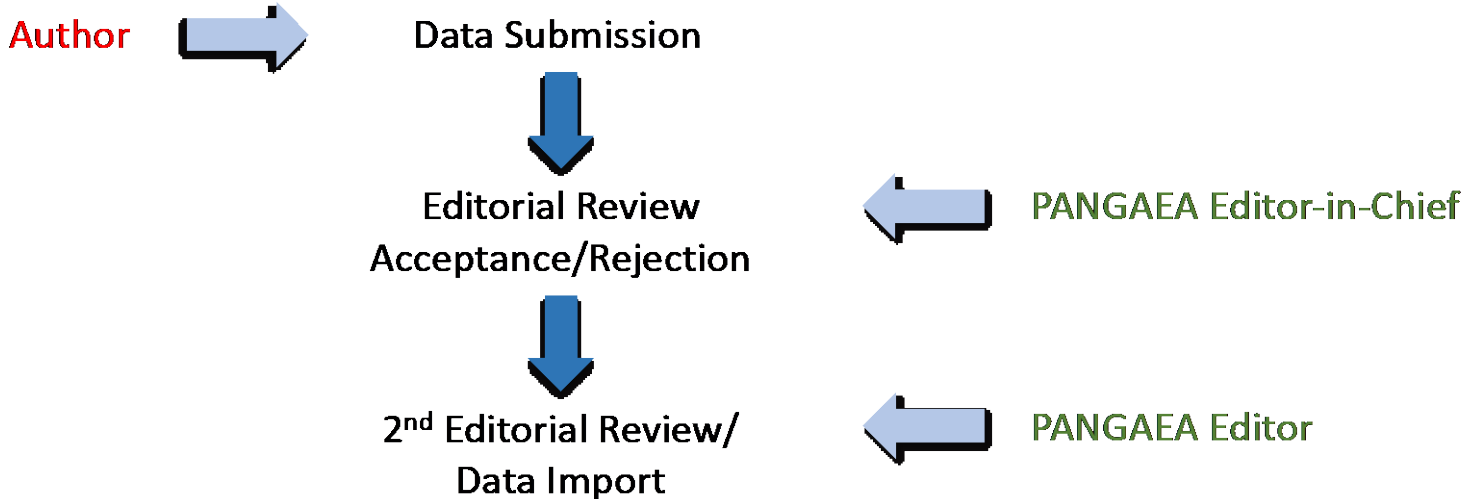

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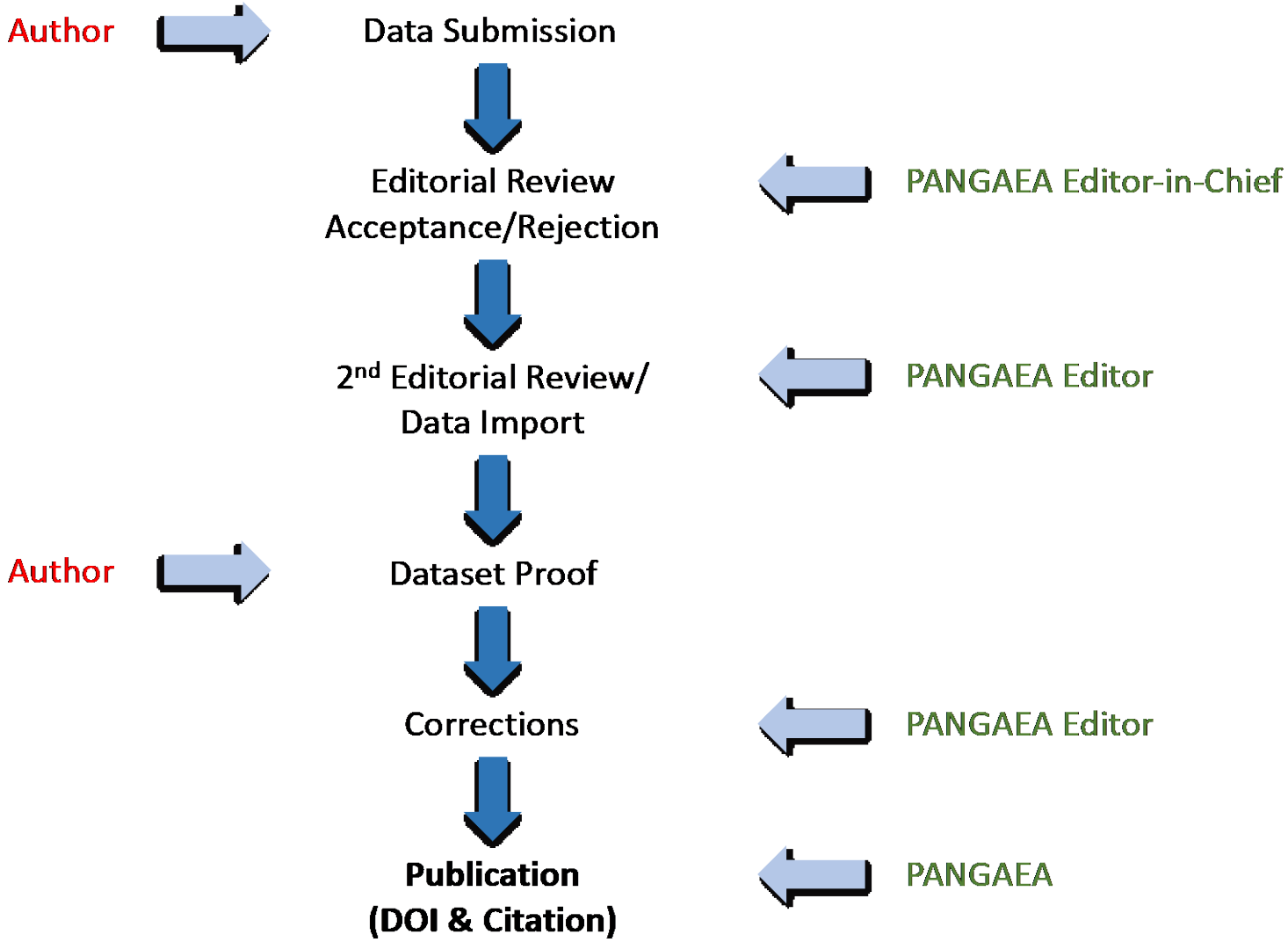

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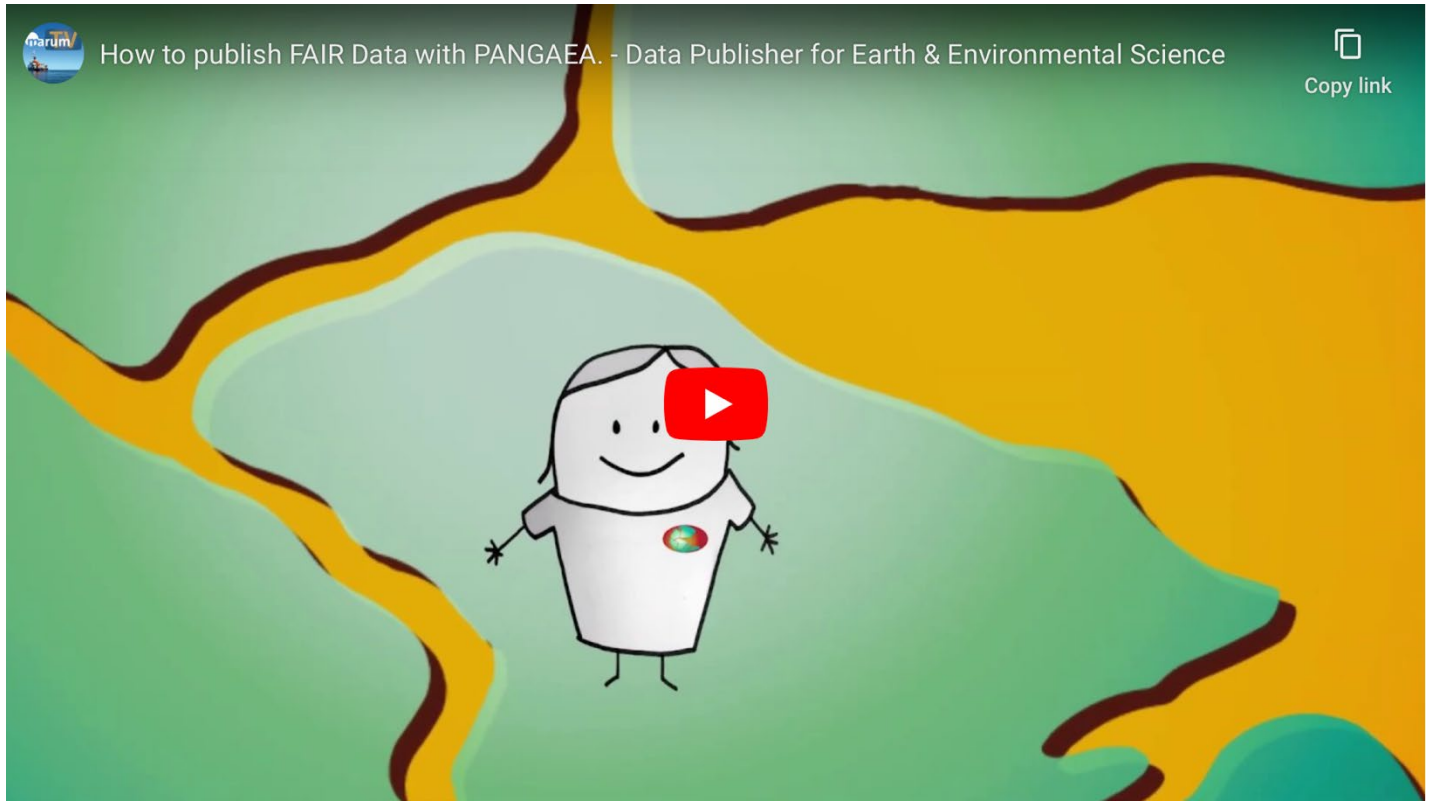

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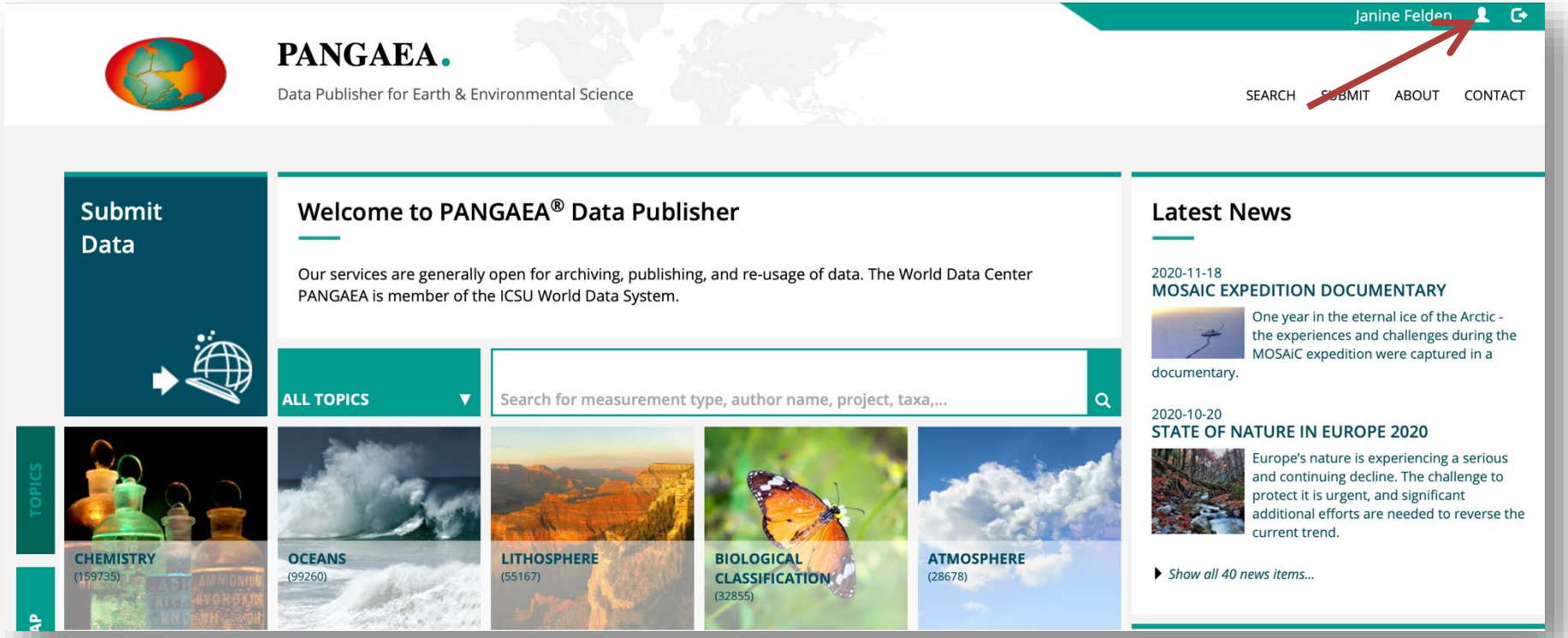

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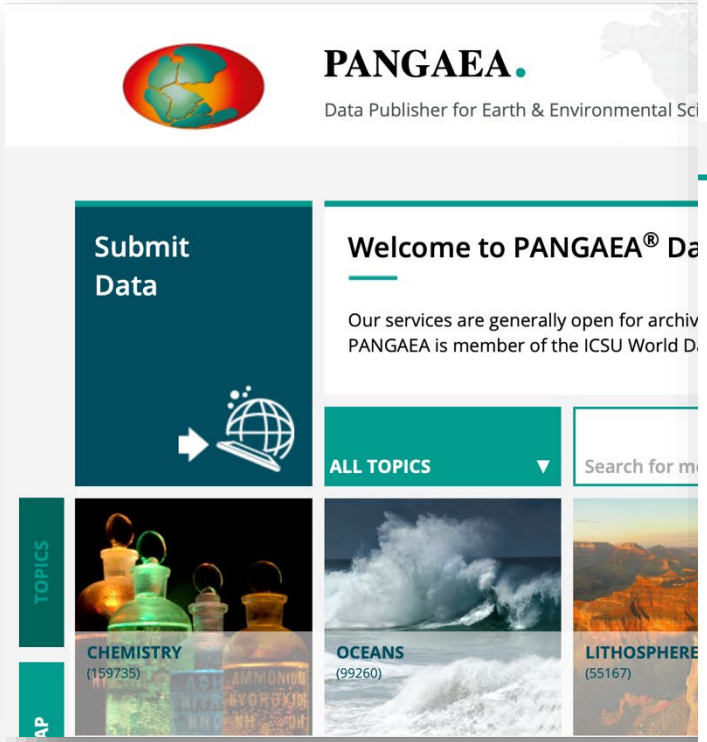

THANKS for Your Attention !!!!

Questions?

ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR- UND MEERESFORSCHUNG
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