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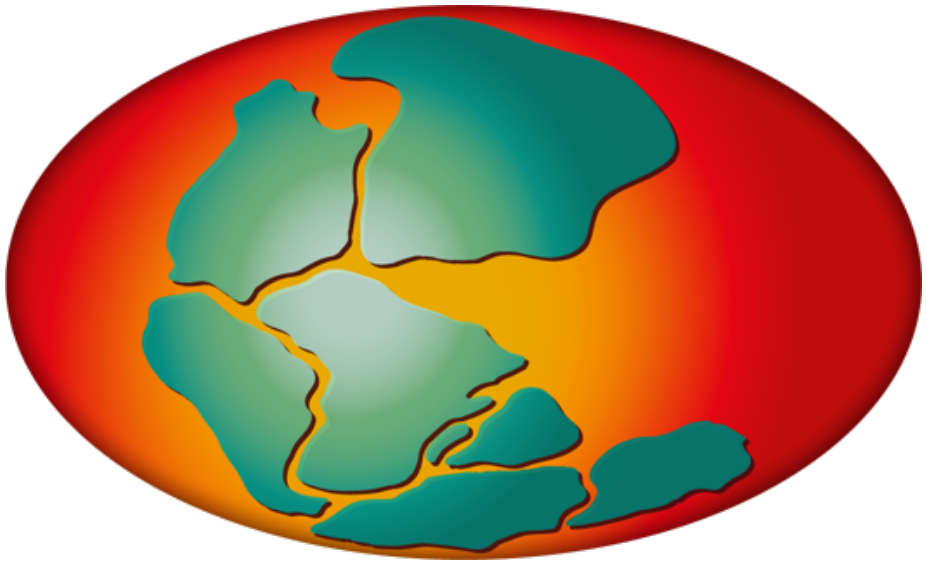
PANGAEA® – Data Publisher for Earth and Environmental Science



Stefanie Schumacher, Amelie Driemel, Hannes Grobe, Rainer Sieger
Alfred-Wegener-Institut, Bremerhaven
hdl:10013/epic.51767

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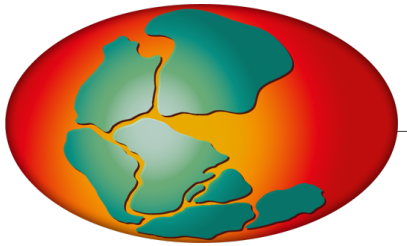

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What is PANGAEA® ?

- Pangaea is an open access **data library** for earth system research.
- Data are stored georeferenced in space and time in a relational database and a tape archive.
- Datasets have a citation and a DOI
- The data content is accessible on the internet via a search engine, a data warehouse and web services.
- The system is open to any scientist or project to archive and publish data.

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Data Model

numeric

16 B. dilatata [#]
178
17
4

text

3 Lithology
Aleuritic clay
Aleuritic clay
Nannofossil clays

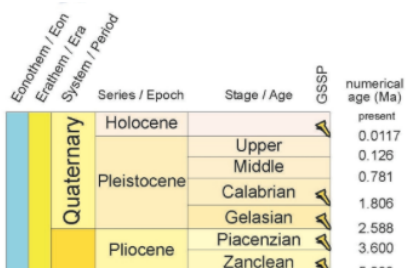
object

Data Model

where?

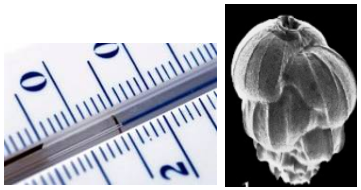
Latitude/Longitude

when?



date time or *geological age*

what?

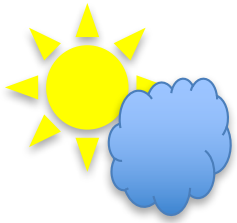


parameter [unit]

numeric text object

16 B. dilatata [#]
178
17
4

3 Lithology
Aleuritic clay
Aleuritic clay
Nannofossil clays



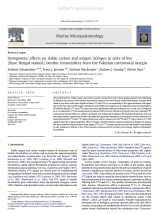
air

ice

water

rock/sediment

who?



investigator/author/reference

how?

method

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Data in PANGAEA

Stefanie Schumacher

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Citation:

Rohardt, Gerd (2016): Continuous thermosalinograph oceanography along POLARSTERN cruise track PS90 (ANT-XXX/3). *Alfred Wegener Institute, Helmholtz Center for Polar and Marine Research, Bremerhaven, PANGAEA,* https://doi.org/10.1594/PANGAEA.858885

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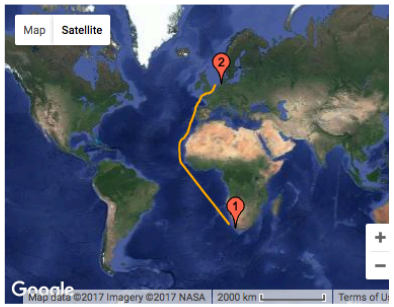

Further details: Continuous thermosalinograph oceanography along POLARSTERN cruise track PS90 (ANT-XXX/3) - Data Processing Report

Project(s): **Physical Oceanography @ AWI** (AWI_PhyOce)

Coverage: *Median Latitude:* 11.875649 * *Median Longitude:* -8.648627 * *South-bound Latitude:* -30.872610 * *West-bound Longitude:* -20.901270 * *North-bound Latitude:* 53.552540 * *East-bound Longitude:* 13.404450

Date/Time Start: 2015-02-04T19:50:00 * *Date/Time End:* 2015-03-09T12:10:00

Minimum DEPTH, water: 11 m * *Maximum DEPTH, water:* 11 m

Event(s): **PS90-track** * *Latitude Start:* -33.911860 * *Longitude Start:* 18.434600 * *Latitude End:* 53.563960 * *Longitude End:* 8.548130 * *Date/Time End:* 2015-03-10T00:00:00 * *Campaign:* PS90 (ANT-XXX/3) * *Basis:* Polarstern * *Device:* Underway cruise trac

Comment: Version 2, 2016-10-20

Parameter(s):

#	Name	Short Name	Unit	Principal Investigator	Method	Comment
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2	LATITUDE	Latitude		Rohardt, Gerd		Geocode
3	LONGITUDE	Longitude		Rohardt, Gerd		Geocode
4	DEPTH, water	Depth water	m	Rohardt, Gerd		Geocode
5	Temperature, water	Temp	°C	Rohardt, Gerd	Thermosalinograph	
6	Salinity	Sal		Rohardt, Gerd	Thermosalinograph	

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Size: 9354 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)*

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 Depth water [m]	5 Temp [°C]	6 Sal
2015-02-04T19:50	-30.872610	13.404450	11	21.17	35.4360
2015-02-04T20:00	-30.850490	13.379200	11	21.16	35.4370
2015-02-04T20:10	-30.825850	13.356760	11	21.11	35.4380
2015-02-04T20:20	-30.801140	13.334150	11	21.01	35.4330
2015-02-04T20:30	-30.776330	13.311390	11	21.11	35.4380
2015-02-04T20:40	-30.751250	13.288470	11	21.18	35.4600
2015-02-04T20:50	-30.726160	13.265620	11	21.17	35.4760
2015-02-04T21:00	-30.701160	13.242680	11	21.12	35.4940
2015-02-04T21:10	-30.676020	13.219850	11	21.10	35.4700
2015-02-04T21:20	-30.650920	13.196860	11	21.16	35.4450
2015-02-04T21:30	-30.625490	13.173740	11	21.26	35.4740
2015-02-04T21:40	-30.600180	13.150540	11	21.41	35.5250
2015-02-04T21:50	-30.574710	13.127290	11	21.48	35.5630
2015-02-04T22:00	-30.549320	13.104220	11	21.50	35.5630
2015-02-04T22:10	-30.524380	13.081450	11	21.51	35.5620
2015-02-04T22:20	-30.499410	13.058680	11	21.45	35.5560
2015-02-04T22:30	-30.474780	13.036260	11	21.39	35.5020
2015-02-04T22:40	-30.450130	13.013870	11	21.48	35.4910
2015-02-04T22:50	-30.425590	12.991480	11	21.57	35.4890
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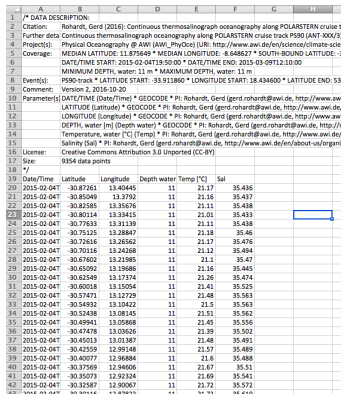

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Stefanie Schumacher

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Citation:

Chen, Wen-Ling; Xie, Zhiyong; Wolschke, Hendrik; Gandrass, Juergen; Kötke, Danijela; Winkelmann, Magnus; Ebinghaus, Ralf (2016): Ultra-trace carbazoles in sediment samples of the Weser and Elbe Rivers and the North Sea in 2012 to 2014. *PANGAEA*, https://doi.org/10.1594/PANGAEA.877302,

Supplement to: Chen, W-L et al. (2016): Quantitative determination of ultra-trace carbazoles in sediments in the coastal environment. *Chemosphere*, **150**, 586-595, https://doi.org/10.1016/j.chemosphere.2016.02.051

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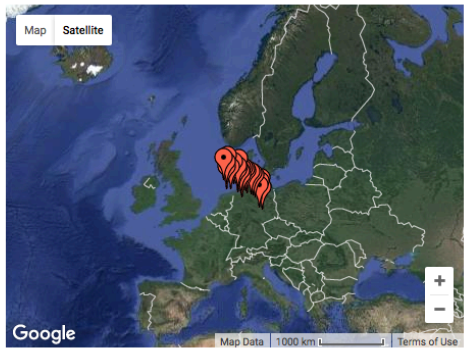

Abstract:

Carbazole and some of its derivatives may possess dioxin-like toxicity and could be persistent in the environment, but information on their distribution and environmental fate is limited. This study developed and validated an ultra-trace targeted-analysis method for the determination of carbazole, 1,2-benzocarbazole, and 13 halogenated carbazoles in sediments from the river, coast, and North Sea. An 8-g sediment sample was extracted using accelerated solvent extraction combined with in-cell cleanup and analyzed using gas chromatography-tandem mass spectrometry. The method was sensitive and reliable with method detection limits ranging from 4.54 to 52.9 pg/g, and most of the quantification biases and relative standard deviations were <20 and <15%, respectively. Carbazole and 1,2-benzocarbazole were the predominant substances in the sediments (median 565 and 369 pg/g, respectively) followed by 3,6-dichlorocarbazole (median 196 pg/g). The detection frequencies of carbazole, benzo-, 3-chloro-, and 3,6-dichlorocarbazole were >75%, while those of 3,6-dibromo-, 1-bromo-3,6-dichloro-, and 1,8-dibromo-3,6-dichlorocarbazole were approximately 50%. Brominated carbazoles occurred more frequently in marine than river-influenced sediments, which could indicate halogenation after discharge into the river. This is the first study regarding these substances in coastal environments without apparent contamination history. The ubiquity and bioaccumulative potential of these substances needs to be considered.

Project(s):

Helmholtz-Zentrum Geesthacht, Institute of Coastal Research (HZG)

Coverage:

Median Latitude: 53.616111 * *Median Longitude:* 9.071519 * *South-bound Latitude:* 51.868000 * *West-bound Longitude:* 5.586000 * *North-bound Latitude:* 55.037830 * *East-bound Longitude:* 12.241000

Date/Time Start: 2012-08-15T09:58:00 * *Date/Time End:* 2014-05-13T14:41:00

Minimum DEPTH, sediment/rock: 0 m * *Maximum DEPTH, sediment/rock:* 0 m

Event(s):

HE422/008-3 (F5, NOAH_F_5) * *Latitude:* 54.467170 * *Longitude:* 6.194170 * *Date/Time:* 2014-05-03T13:42:00 * *Elevation:* -37.7 m * *Location:* North Sea * *Campaign:* HE422 * *Basis:* Heincke * *Device:* Boomerang-Grab (BG)

HE422/025-4 (F10, NOAH_H_5) * *Latitude:* 54.833500 * *Longitude:* 5.586000 * *Date/Time:* 2014-05-05T08:30:00 * *Elevation:* -39.3 m * *Location:* North Sea * *Campaign:* HE422 * *Basis:* Heincke * *Device:* Boomerang-Grab (BG)

HE422/051-4 (F20, NOAH_G_5) * *Latitude:* 55.037830 * *Longitude:* 6.403500 * *Date/Time:* 2014-05-08T11:51:00 * *Elevation:* -42.1 m * *Location:* North Sea * *Campaign:* HE422 * *Basis:* Heincke * *Device:* Grab (GRAB)

Show more...

Parameter(s):

#	Name	Short Name	Unit	Principal Investigator	Method	Comment
1	Event label	Event		Xie, Zhiyong		
2	Optional event label	Event 2		Xie, Zhiyong		

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Citation:

Chen, Wen-Ling; Xie, Zhiyong; Wolschke, Hendrik; Gandrass, Juergen; Kötke, Danijela; Winkelmann, Magnus; Ebinghaus, Ralf (2016): Ultra-trace carbazoles in sediment samples of the Weser and Elbe Rivers and the North Sea in 2012 to 2014. *PANGAEA*, https://doi.org/10.1594/PANGAEA.877302,

Supplement to: Chen, W-L et al. (2016): Quantitative determination of ultra-trace carbazoles in sediments in the coastal environment. *Chemosphere*, **150**, 586-595, https://doi.org/10.1016/j.chemosphere.2016.02.051

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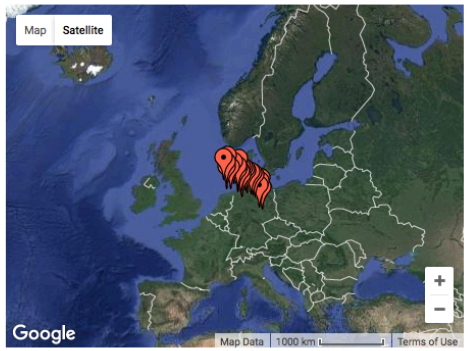

Abstract:

Carbazole and some of its derivatives may possess dioxin-like toxic
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(median 196 pg/g). The detection frequencies of carbazole, benzo-,
dichlorocarbazole were approximately 50%. Brominated carbazole
the river. This is the first study regarding these substances in coast
needs to be considered.

Project(s): Helmholtz-Zentrum Geesthacht, Institute of Coastal Research

Coverage: *Median Latitude:* 53.616111 * *Median Longitude:* 9.071519 * *South-b*
12.241000

Date/Time Start: 2012-08-15T09:58:00 * *Date/Time End:* 2014-05-13T

Minimum DEPTH, sediment/rock: 0 m * *Maximum DEPTH, sediment/ro*

Event(s):

HE422/008-3 (F5, NOAH_F_5) * *Latitude:* 54.467170 * *Longitude:*
Heincke * *Device:* Boomerang-Grab (BG)

HE422/025-4 (F10, NOAH_H_5) * *Latitude:* 54.833500 * *Longitud*
Heincke * *Device:* Boomerang-Grab (BG)

HE422/051-4 (F20, NOAH_G_5) * *Latitude:* 55.037830 * *Longitud*
Heincke * *Device:* Grab (GRAB)

Show more...

Parameter(s):

#	Name	Short Name	Unit	Principal Investigator	Method	Comment
1	Event label	Event		Xie, Zhiyong		
2	Optional event label	Event 2		Xie, Zhiyong		
3	Campaign of event	Campaign		Xie, Zhiyong		
4	Latitude of event	Latitude		Xie, Zhiyong		
5	Longitude of event	Longitude		Xie, Zhiyong		
6	Elevation of event	Elevation	m	Xie, Zhiyong		
7	DEPTH, sediment/rock	Depth	m	Xie, Zhiyong		Geocode
8	Carbazole	Carbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 9.62 pg/g, limit of quantification 32.1 pg/g
9	2-Bromocarbazole	2-Bromocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 3.57 pg/g, limit of quantification 11.9 pg/g
10	3-Bromocarbazole	3-Bromocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 4.38 pg/g, limit of quantification 14.6 pg/g
11	3,6-Dibromocarbazole	3,6-Dibromocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 8.19 pg/g, limit of quantification 27.3 pg/g
12	1,3,6,8-Tetrachlorocarbazole	1,3,6,8-Tetrachlorocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 2.84 pg/g, limit of quantification 9.46 pg/g
13	2,3,6,7-Tetrachlorocarbazole	2,3,6,7-Tetrachlorocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 22.2 pg/g, limit of quantification 74.0 pg/g
14	3,6-Dichlorocarbazole	3,6-Dichlorocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 3.36 pg/g, limit of quantification 11.2 pg/g
15	3-Chlorocarbazole	3-Chlorocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 2.63 pg/g, limit of quantification 8.75 pg/g
16	1,3,6-Tribromocarbazole	1,3,6-Tribromocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 13.0 pg/g, limit of quantification 43.2 pg/g
17	1,3,6,8-Tetrabromocarbazole	1,3,6,8-Tetrabromocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 6.78 pg/g, limit of quantification 22.6 pg/g
18	1-Bromo-3,6-dichlorocarbazole	1-Bromo-3,6-dichlorocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 5.65 pg/g, limit of quantification 18.8 pg/g
19	1,8-Dibromo-3,6-dichlorocarbazole	1,8-Dibromo-3,6-dichlorocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 8.17 pg/g, limit of quantification 27.2 pg/g
20	1,2-Benzocarbazole	1,2-Benzocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 7.13 pg/g, limit of quantification 23.8 pg/g
21	3,6-Diiodocarbazole	3,6-Diiodocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 8.40 pg/g, limit of quantification 28.0 pg/g
22	2,7-Dibromocarbazole	2,7-Dibromocarbazole	pg/g	Xie, Zhiyong	Accelerated solvent extraction (ASE) with in-line cleanup, coupled gas chromatog	in total sediment, limit of detection 10.1 pg/g, limit of quantification 33.8 pg/g
23	Carbon, organic, total	TOC	%	Xie, Zhiyong		in total sediment, normalised with Corg

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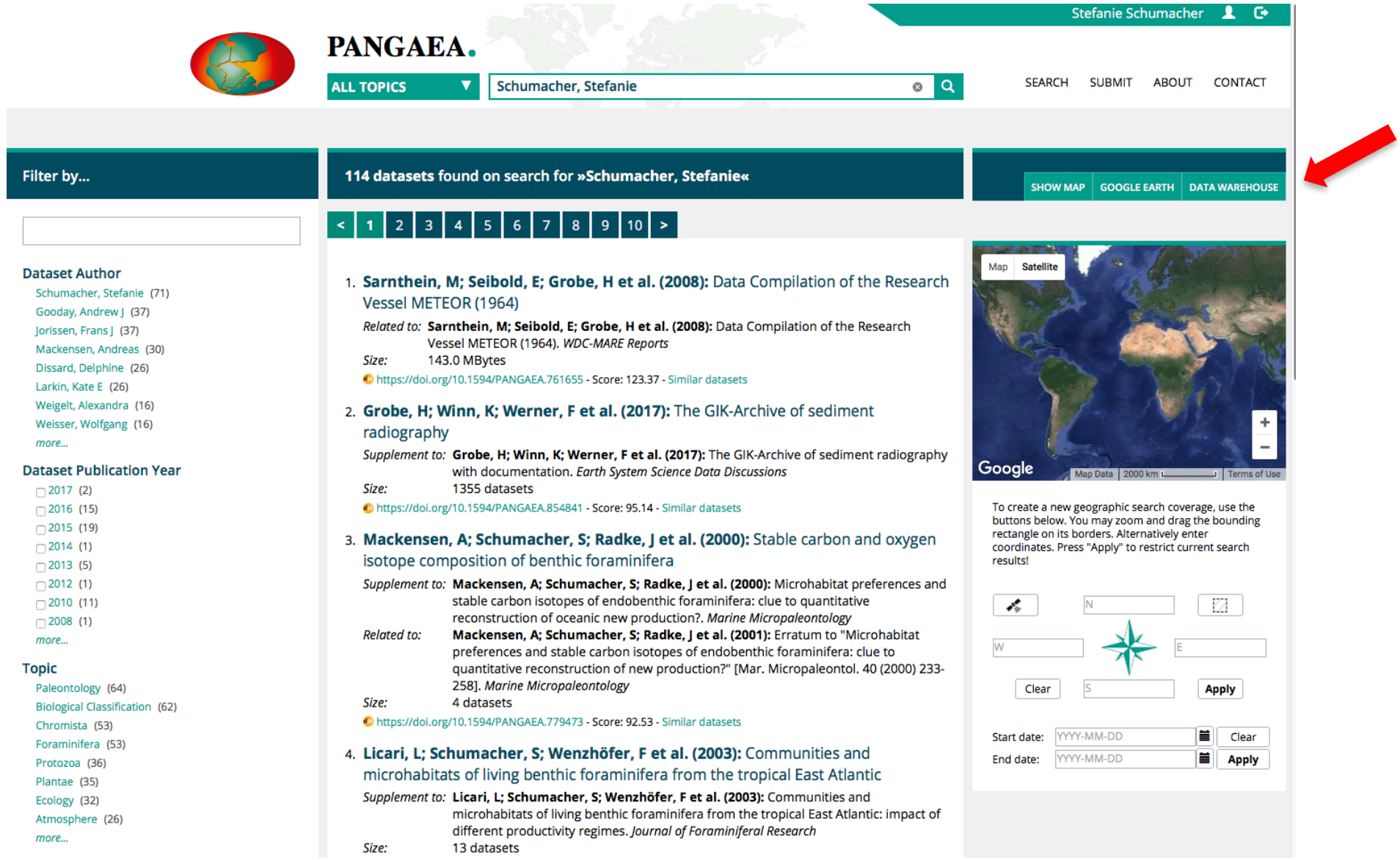
Size: 584 data points

GEMEINSCHAFT

Data Search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Dataset Author
Schumacher, Stefanie (71)
Gooday, Andrew J (37)
Jorissen, Frans J (37)
Mackensen, Andreas (30)
Dissard, Delphine (26)
Larkin, Kate E (26)
Weigelt, Alexandra (16)
Weisser, Wolfgang (16)
more...
Dataset Publication Year
2017 (2)
2016 (15)
2015 (19)
2014 (1)
2013 (5)
2012 (1)
2010 (11)
2008 (1)
more...
Topic
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Biological Classification (62)
Chromista (53)
Foraminifera (53)
Protozoa (36)
Plantae (35)
Ecology (32)
Atmosphere (26)
more...
1. Sarnthein, M; Seibold, E; Grobe, H et al. (2008): Data Compilation of the Research Vessel METEOR (1964)
Related to: Sarnthein, M; Seibold, E; Grobe, H et al. (2008): Data Compilation of the Research Vessel METEOR (1964). WDC-MARE Reports
Size: 143.0 MBytes
https://doi.org/10.1594/PANGAEA.761655 - Score: 123.37 - Similar datasets
2. Grobe, H; Winn, K; Werner, F et al. (2017): The GIK-Archive of sediment radiography
Supplement to: Grobe, H; Winn, K; Werner, F et al. (2017): The GIK-Archive of sediment radiography with documentation. Earth System Science Data Discussions
Size: 1355 datasets
https://doi.org/10.1594/PANGAEA.854841 - Score: 95.14 - Similar datasets
3. Mackensen, A; Schumacher, S; Radke, J et al. (2000): Stable carbon and oxygen isotope composition of benthic foraminifera
Supplement to: Mackensen, A; Schumacher, S; Radke, J et al. (2000): Microhabitat preferences and stable carbon isotopes of endobenthic foraminifera: clue to quantitative reconstruction of oceanic new production?. Marine Micropaleontology
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Size: 4 datasets
https://doi.org/10.1594/PANGAEA.779473 - Score: 92.53 - Similar datasets
4. Licari, L; Schumacher, S; Wenzhöfer, F et al. (2003): Communities and microhabitats of living benthic foraminifera from the tropical East Atlantic
Supplement to: Licari, L; Schumacher, S; Wenzhöfer, F et al. (2003): Communities and microhabitats of living benthic foraminifera from the tropical East Atlantic: impact of different productivity regimes. Journal of Foraminiferal Research
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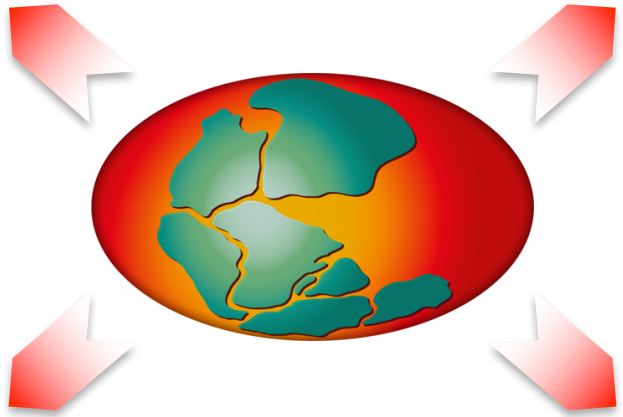

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Baseline Surface Radiation Network

IODP
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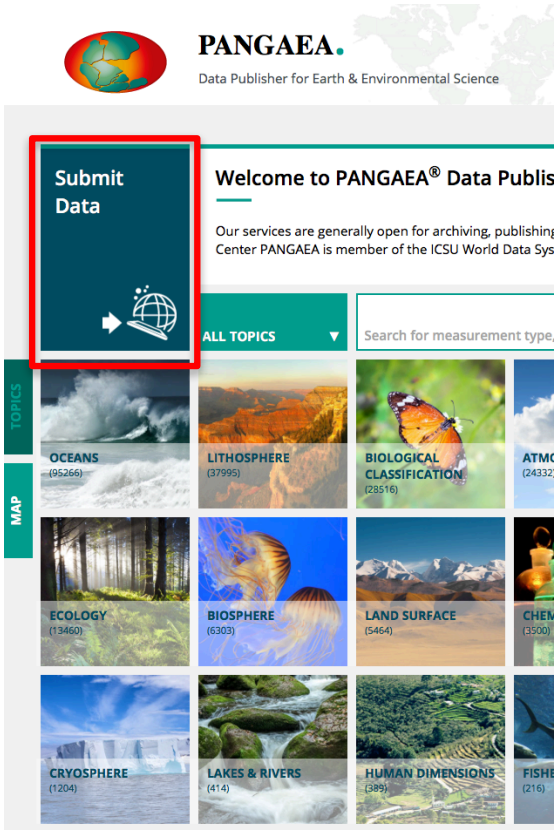

Author → Data submission

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Editorial Review ← Pangaea Editor

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Data import ← Pangaea Editor

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Author → Dataset proof

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Corrections ← Pangaea Editor

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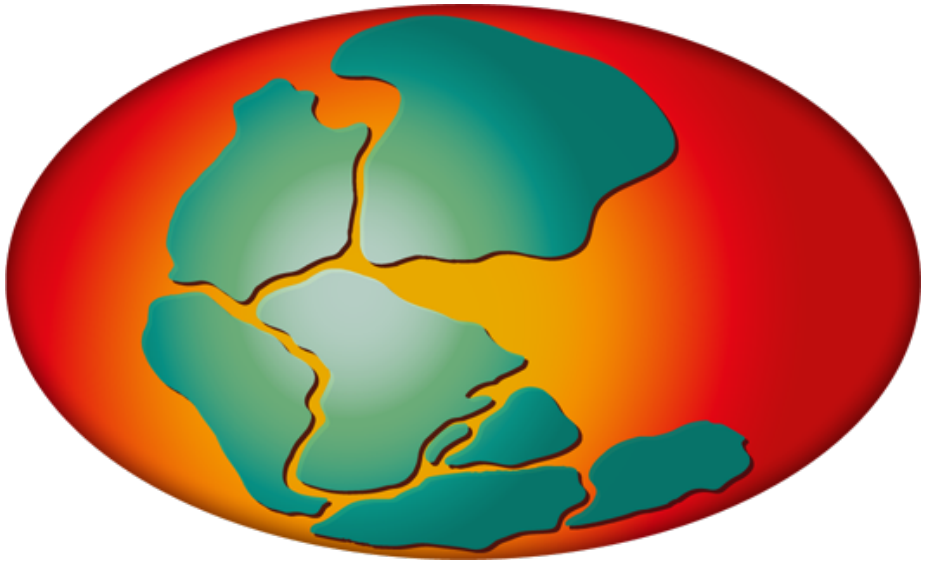
Publication (DOI & citation) — Pangaea



Thank You!