

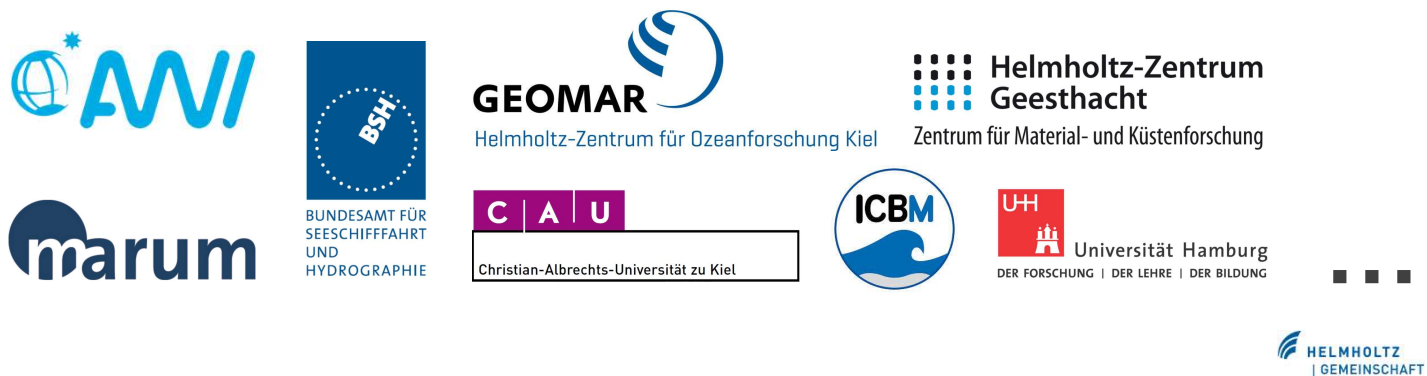
MaNIDA - Marine Network for Integrated Data Access

Data Portal German Marine Research

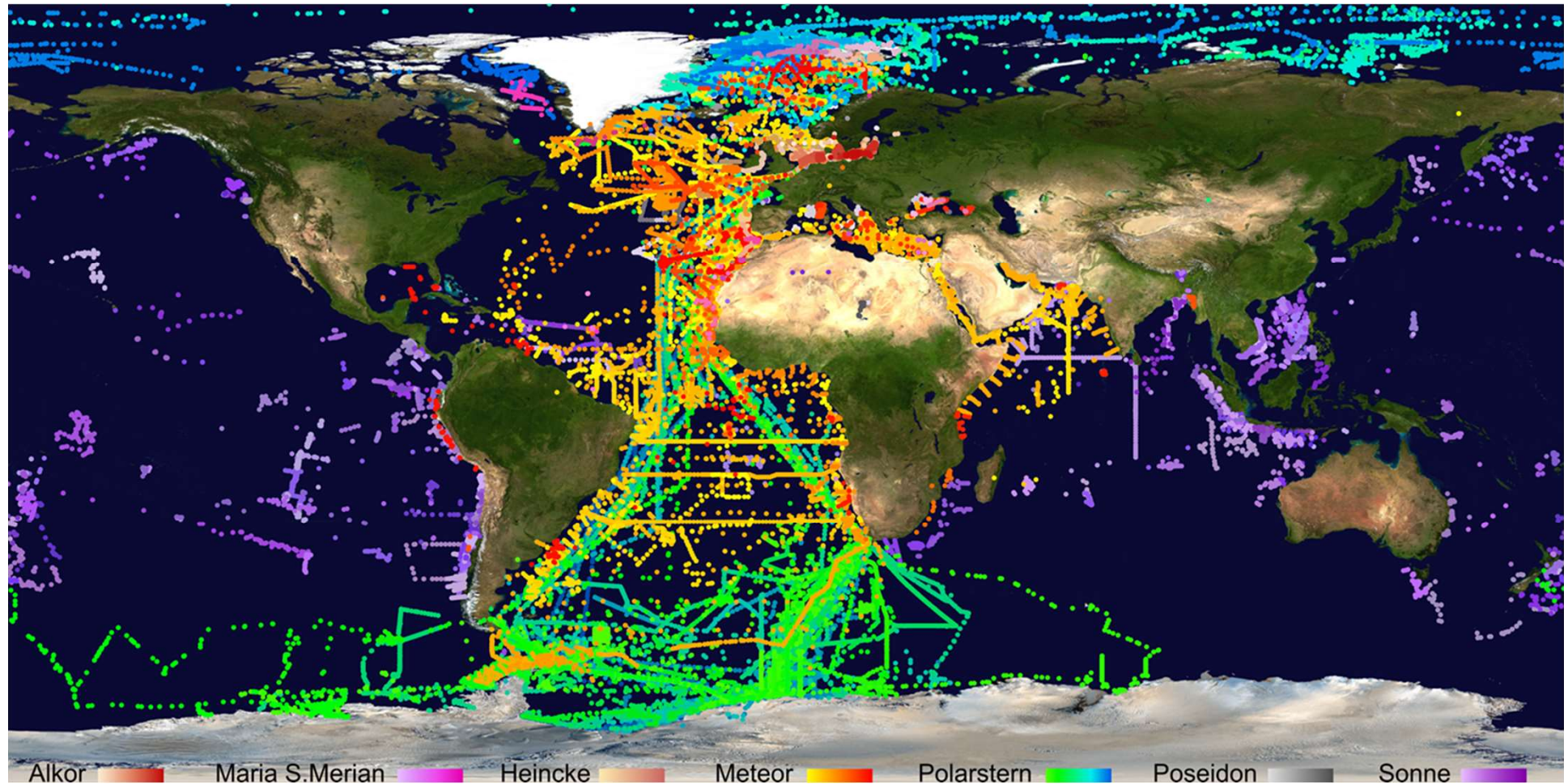
Status quo and perspectives

Status

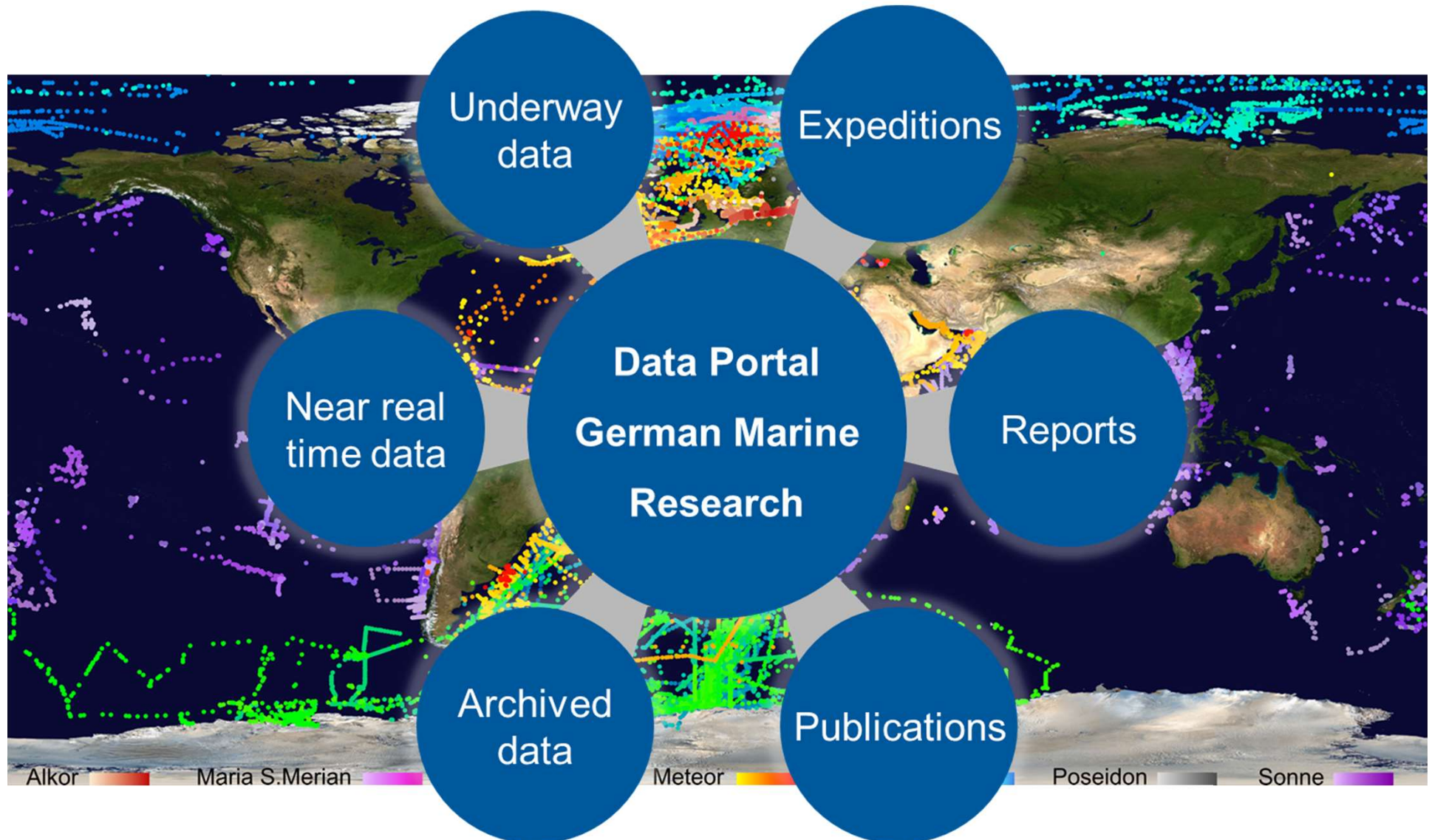
- Central search and access of **data** and **publications** of German marine research via the **data portal**
- Helmholtz Impulse & Networking Fund 2012 – 2015
- Focus on research vessels and platforms
- Actual 4 data providers and 4 repositories
- Open consortia:



Access to marine research data



Access to marine research data

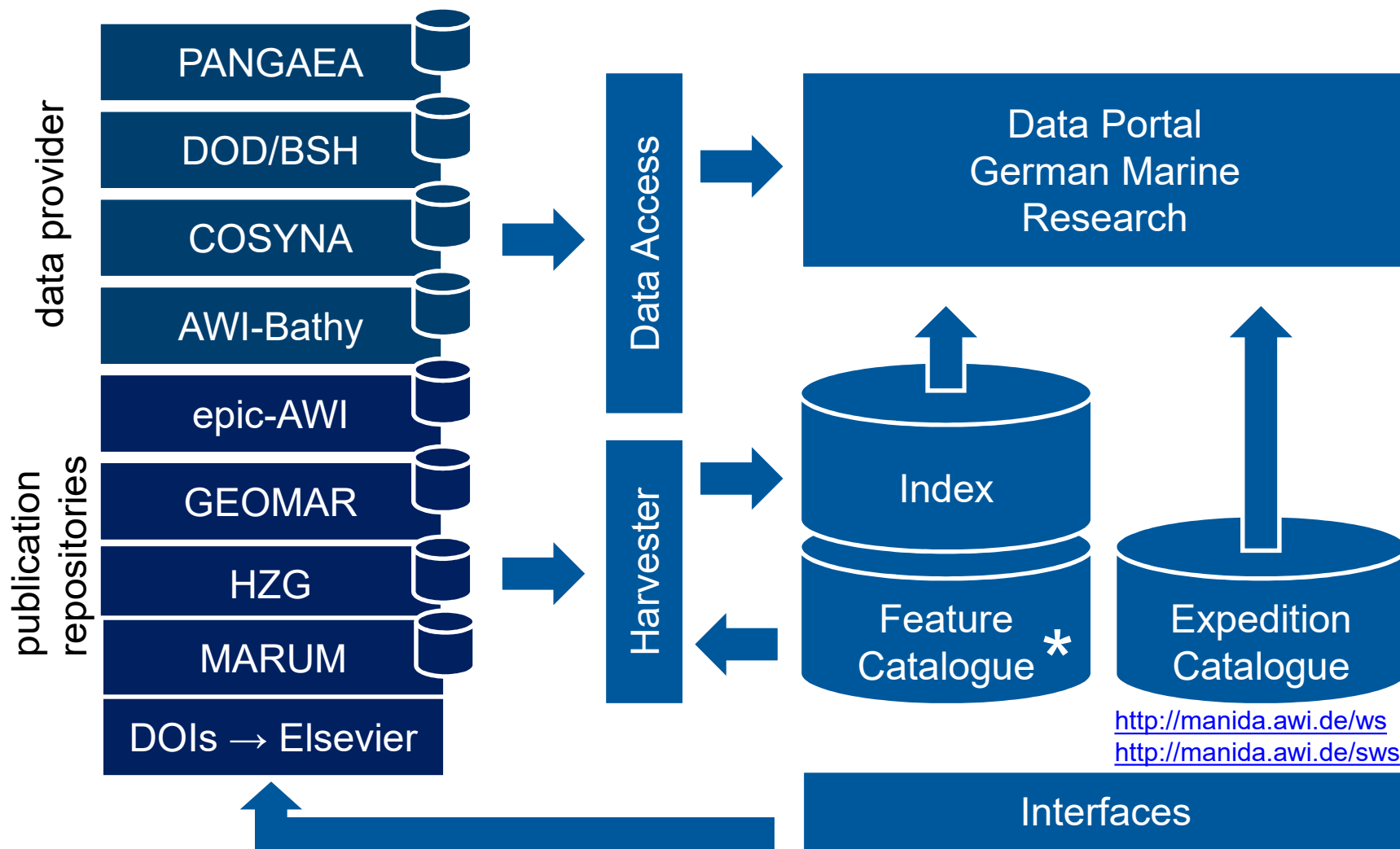


MaNIDA – cross-partner working groups



- **Portal** – architecture, interfaces, standards
- **Catalogue** – expedition meta data, reports, CSR
- **Underway Daten** – DShip, devices, validation
- **Hydro acoustics** – case study bathymetry data
- **Harmonisation** – vocabularies, quality, standards and aggregation of data
- **Monitoring** and near real-time data (German Bight)
- **Data Curation Center** → **Landstation**
- **Policies** and directives

Architecture



* Harmonisation

Expedition Search Web Services

Expedition Search Web Services provide interfaces to indexed metadata.

Introduction

Expedition Search Web Services (ESWS) allow searching metadata of indexed objects. Search results will be returned in JSON format. Note: since the services are based on harvested metadata they might not be up-to-date.

The available services are:

- [search](#) for searching harvested and indexed objects.
- [expedition](#) for searching indexed expedition metadata.
- [platform](#) for searching indexed platform metadata.

A result object is structured as the following example shows.

```
{
  "offset": 0,
  "maxHits": 0,
  "totalHits": 37,
  "duration": 7,
  "data": [
    ...
  ],
  "suggested": false,
  "suggestion": null
}
```

A result object gives information about the starting `offset`, requested `maxHits`, `totalHits` and the `duration` of the computation in milliseconds. The field `suggested` will be `true` if no hits for a given query where found. For less or equal than five hits a did-you-mean query will be performed and the suggestion is available in the `suggestion` field.

To scroll through a resource set use the `offset` and the `hits` parameters, e.g. [search?offset=10&hits=10](#).

The following parameters are available.

Parameter	Description	Example
<code>query</code>	Searches for the given full text query	search?query=P585

- Introduction
- Search
- Expedition
- Platform

Data Portal German Marine Resea... x MaNIDA Search Web Services x Expedition Web Services x +

manida.awi.de/ws Suchen

Expedition Web Services

Expedition Web Services provide interfaces to expedition information.

Introduction

Expedition Web Services (EWS) allow requesting expedition information in XML and JSON. To request a format explicitly use `format=xml` or `format=json` in the query string.

Individual resources are accessible via its numeric identifier or unique name, e.g. `platform/Polarstern`. For set requests - no resource identifier is given, e.g. `platform` - a result object with records for the requested resource is serialized. A result object is structured as the following example shows.

XML serialization

```
<Result>
  <offset>0</offset>
  <maxHits>0</maxHits>
  <totalHits>37</totalHits>
  <duration>8</duration>
  <data>
    <data>
      <id>1</id>
      <platform>Alkor</platform>
    </data>
    ...
  </data>
</Result>
```

JSON serialization

```
{
  "offset": 0,
  "maxHits": 0,
  "totalHits": 37,
  "duration": 7,
  "data": [
    {"id": 1, "platform": "Alkor"},
    ...
  ],
}
```

A result object gives information about the starting `offset`, requested `maxHits`, `totalHits` and the `duration` of the computation in milliseconds.

To scroll through a resource set use the `offset` and the `hits` parameters, e.g. `expedition?offset=10&hits=10`. Note that scrolling is only supported for the expedition resource.

Countries

The `country` resource provides access to country metadata. A specific country is directly accessible via resource `country/Germany`. The result looks as follows

- Introduction
- Countries
- Devices
- Device types
- Events
- Expeditions
- Organisations
- Platforms
- Platform types
- Ports
- Projects
- Project types
- Roles
- Tracklines

Keywords

Search

Bookmark your search

▼ Provider

PANGAEA (340425)
EPIC (33735)
OCEANREP (17051)
COSYNA (15628)
HZG (4953)
more facets...

▼ Region

▶ Atlantic Ocean (106392)
▶ Mainland Europe (82296)
European Mainland (82268)
▶ Pacific Ocean (77345)
▶ Arctic Ocean (30622)
more facets...

▼ Author

Shipboard Scientific Party (26698)
WOCE Sea Level, WSL (19649)
Hofmann, Jutta (19568)
König-Langlo, Gert (16283)
Schweingruber, Fritz Hans
(13004)
more facets...

▼ Platform

Joides Resolution (40912)
Polarstern (31110)
Glomar Challenger (17858)
Meteor (1986) (12435)
Thomas G. Thompson (8454)
more facets...

▼ Expedition

No facets selected.

Sort by **best match** **date**

Grandparental effects in marine sticklebacks: transgenerational plasticity across multiple generations (2015) +

Shama, Lisa N. S.; Wegner, K. Mathias

hdl:10013/epic.44277

pdf **view object**

Numerical cell model investigating cellular carbon fluxes in *Emiliana huxleyi* (2015) +

Holtz, Lena-Maria; Wolf-Gladrow, Dieter; Thoms, Silke

hdl:10013/epic.44276

pdf **view object**

Gas hydrate distributions in sediments of pockmarks from the Nigerian margin – Results and interpretation from shallow drilling (2015) +

Wei, Jiangong; Pape, Thomas; Sultan, Nabil; Colliat, Jean-Louis; Himmler, Tobias; Ruffine, Livio; de Prunelè, Alexis; Dennielou, Bernard; Garziglia, Sebastien; Marsset, Tania; Peters, Carl A; Rabiou, Abdulkarim; Bohmann, Gerhard

view object

Lessons from stakeholder dialogues on marine aquaculture in offshore wind farms: Perceived potentials, constraints and research gaps (2015) +

Wever, Lara; Krause, Gesche; Buck, Bela H.

hdl:10013/epic.44211

view object

Assimilating summer sea-ice concentration into a coupled ice–ocean model using a LSEIK filter (2015) +

Yang, Qinghua; Loza, Svetlana N.; Losch, Martin; Liu, Jiping; Zhang, Zhanghai; Nerger, Lars; Yang, Hu

hdl:10013/epic.43865

▼ Geographic coverage



filter by map bounding box

▼ Temporal coverage

Begin

End

filter by temporal coverage

▼ Keywords



Bookmark your search

- ▼ Provider
 - PANGAEA (340425)
 - EPIC (33735)
 - OCEANREP (17051)
 - COSYNA (15628)
 - HZG (4953)
 - more facets...
- ▼ Region
 - ▶ Atlantic Ocean (106392)
 - ▶ Mainland Europe (82296)
 - European Mainland (82268)
 - ▶ Pacific Ocean (77345)
 - ▶ Arctic Ocean (30622)
 - more facets...
- ▼ Author
 - Shipboard Scientific Party (26698)
 - WOCE Sea Level, WSL (19649)
 - Hofmann, Jutta (19568)
 - König-Langlo, Gert (16283)
 - Schweingruber, Fritz Hans (13004)
 - more facets...
- ▼ Platform
 - Joides Resolution (40912)
 - Polarstern (31110)
 - Glomar Challenger (17858)
 - Meteor (1986) (12435)
 - Thomas G. Thompson (8454)
 - more facets...
- ▼ Expedition

No facets selected. Sort by

Facets, e.g.

- region
- expedition
- device
- parameter
- author / PI
- Geographic and temporal coverage
- ...

Geographic coverage



Google Kartendaten Nutzungsbedingungen

filter by map bounding box

Temporal coverage

Begin

End

filter by temporal coverage

Keywords



Word cloud terms: measurements, station, hole, sediment, historical, water, sea, width, sample, object, tree, ring, cor, tabl, ables, cruises, odp

Bookmark your search

Provider

PANGAEA (340425)
EPIC (33735)
OCEANREP (17051)
COSYNA (15628)
HZG (4953)
more facets...

Region

Atlantic Ocean (106392)
Mainland Europe (82296)
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more facets...

Author

Shipboard Scientific Party (26698)
WOCE Sea Level, WSL (19649)
Hofmann, Jutta (19568)
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(13004)
more facets...

Platform

Joides Resolution (40912)
Polarstern (31110)
Glomar Challenger (17858)
Meteor (1986) (12435)
Thomas G. Thompson (8454)
more facets...

Expedition

No facets selected.

Sort by best match date

Geographic coverage

- Grandparental effects in marine sticklebacks: transgenerational plasticity across multiple generations (2015)
Shama, Lisa N. S.; Wegner, K. Mathias
hdl:10013/epic.44277
[pdf](#) [view object](#)
- Numerical cell model investigating cellular carbon fluxes in *Emiliana huxleyi* (2015)
Holtz, Lena-Maria; Wolf-Gladrow, Dieter; Thoms, Silke
hdl:10013/epic.44276
[pdf](#) [view object](#)
- Gas hydrate distributions in sediments of pockmarks from the Nigerian margin – Results and interpretation from shallow drilling (2015)



Information on and citation of data sets

- Meta data
- Digital Object Identifiers DOI, global handles
- Direct data download link (data provider redirect)
- Relationships to other objects and publications
- ...

Selected facets: Polarstem ✕

- ▼ Platform
 - Polarstem (250)
- ▼ Chief scientist
 - Fahrbach, E. (13)
 - Fütterer, D. K. (12)
 - Jokat, W. (12)
 - Hempel, G. (11)
 - Kattner, G. (9)
 - more facets...
- ▼ Begin port
 - Cape Town (63)
 - Bremerhaven (62)
 - Punta Arenas (46)
 - Tromsø (34)
 - Longyearbyen (18)
 - more facets...
- ▼ End port
 - Cape Town (63)
 - Bremerhaven (60)
 - Punta Arenas (45)
 - Tromsø (32)
 - Longyearbyen (19)
 - more facets...
- ▼ Project
 - EPOS I (3)
 - SCACE (2)
 - AMORE (1)
 - ANDEEP 1 (1)
 - ANDEEP 2 (1)

Platform	Expedition	Alias	Begin	End	Chief scientist(s)	
Polarstem	PS94	ARK-XXIX/3; BSH20150013	2015-08-16 - Tromsø	2015-10-15 - Bremerhaven	Schauer, U.	Events Data Map Publications
Polarstem	PS93	ARK-XXIX/2; BSH20150012	2015-06-30 - Tromsø	2015-08-14 - Tromsø	Soltwedel, T.	Events Data Map Publications
Polarstem	PS92	ARK-XXIX/1; BSH20150011	2015-05-19 - Bremerhaven	2015-06-28 - Tromsø	Peeken, I.	Events Data Map Publications
Polarstem	PS91	ANT-XXX/4; BSH20150010	2015-03-18 - Punta Arenas	2015-04-19 - Bremerhaven	Knust, R.	Events Data Map Publications
						Events Data Map Publications
						Events Data Map Publications
						Events Data Map Publications
						Events Data Map Publications
						Events Data Map Publications
						Events Data Map Publications
						Events Data Map Publications
						Events Data Map Publications

- ### Harmonisation and identification of
- Expedition information meta data
 - national/intern. identifiers, CSR
 - devices
 - parameters/attributes
 - projects

Platform type

- station (26)
- research vessel (16)
- marnet (12)
- ferrybox (10)
- buoy (6)
- more facets...

Operator

- Helmholtz-Zentrum Geesthacht (27)
- Alfred Wegener Institute for Polar and Marine Research (26)
- Bundesamt für Seeschifffahrt und Hydrographie (12)
- GEOMAR - Helmholtz-Zentrum für Ozeanforschung Kiel (4)
- Leibniz-Institut für Ostseeforschung Warnemünde (IOW) (1)
- more facets...

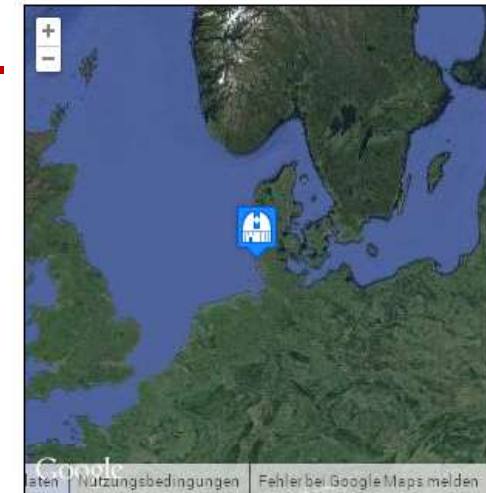
Owner

- Helmholtz-Zentrum Geesthacht (27)
- Alfred Wegener Institute for Polar and Marine Research (24)
- Bundesamt für Seeschifffahrt und Hydrographie (12)
- Bundesministerium für Bildung und Forschung (4)
- Mecklenburg-Vorpommern (2)
- more facets...

No facets selected.

Platform	Operator	Owner
Alkor	GEOMAR - Helmholtz-Zentrum für Ozeanforschung Kiel	Schleswig-Holstein
Biologische Anstalt Helgoland	Alfred Wegener Institute for Polar and Marine Research	Alfred Wegener Institute for Polar and Marine Research
Buoy BunkerHill1	Helmholtz-Zentrum Geesthacht	Helmholtz-Zentrum Geesthacht
Buoy DarsserSchwelle1	Helmholtz-Zentrum Geesthacht	Helmholtz-Zentrum Geesthacht
Buoy Hoernum1	Helmholtz-Zentrum Geesthacht	Helmholtz-Zentrum Geesthacht
Buoy Jade1	Helmholtz-Zentrum Geesthacht	Helmholtz-Zentrum Geesthacht
Buoy List1	Helmholtz-Zentrum Geesthacht	Helmholtz-Zentrum Geesthacht
Buoy PanamaColon1	Helmholtz-Zentrum Geesthacht	Helmholtz-Zentrum Geesthacht
Dallmann	Alfred Wegener Institute for Polar and Marine Research	Alfred Wegener Institute for Polar and Marine Research
Elisabeth Mann Borgese	Leibniz-Institut für Ostseeforschung Warnemünde (IOW)	Mecklenburg-Vorpommern
Ferrybox at Cuxhaven	Helmholtz-Zentrum Geesthacht	Helmholtz-Zentrum Geesthacht
Ferrybox at FINO3	Helmholtz-Zentrum Geesthacht	Helmholtz-Zentrum Geesthacht
Ferrybox at Helgoland (provided by AWI)		

Web services of research platforms for operational and NRT-data to find and access directly



Case study - German Bight

Zentrum für Material- und Küstenforschung

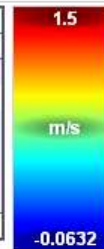
COSYNA

February, 2016						
Today						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29						

Select date

Date: 09 Feb 2016			
Time: 19:00h ±5min			
00:00	06:00	12:00	18:00
01:00	07:00	13:00	19:00
02:00	08:00	14:00	20:00
03:00	09:00	15:00	21:00
04:00	10:00	16:00	22:00
05:00	11:00	17:00	23:00

Select time



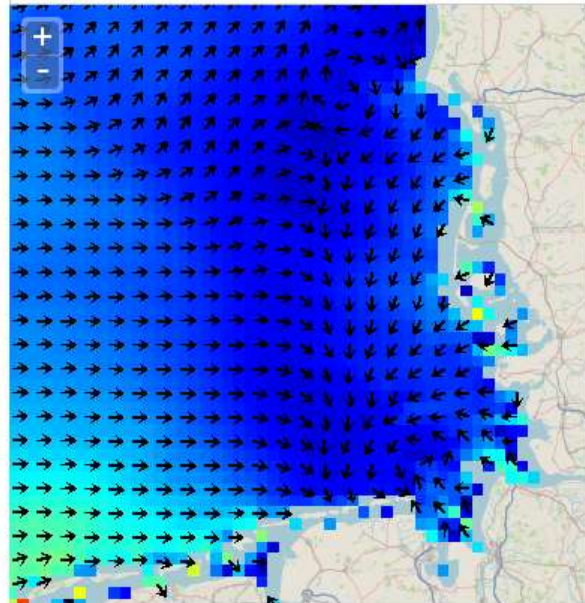
Comparison of the current vector field from the free Getm model run (left), HF Radar measured (right) and the Getm run with assimilated HF data (middle)



Lon: -
Lat: -

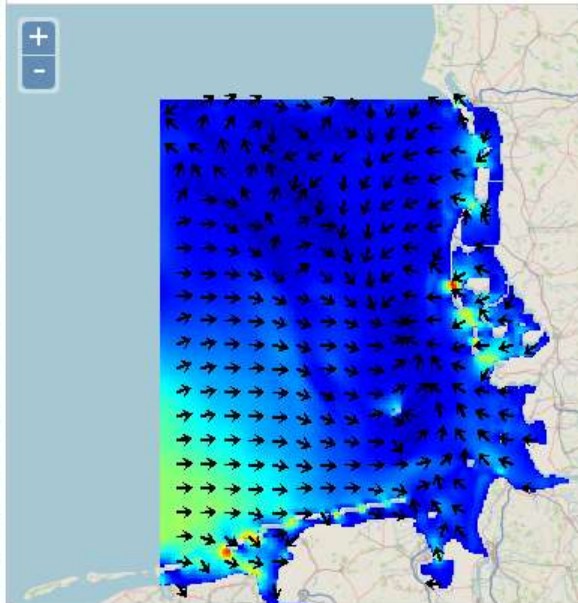
Fix Scale Range Append Plots [Save](#) [Load](#) ?

Getm 2d German Bight 10m:
surface sea water velocity/surface sea water velocity
Tue Feb 09 2016
19:00:00 GMT+0100



Timeseries Plot: (click map)

Getm 2d reanalysed: [More Info](#)
surface sea water velocity/surface sea water velocity
Tue Feb 09 2016
19:00:00 GMT+0100



Timeseries Plot: (click map)

HF Radar Current: [More Info](#)
velocity/velocity
Tue Feb 09 2016
19:04:27 GMT+0100



Timeseries Plot: (click map)

User integration

- ✓ **We address marine scientists and scientific networks**
- ✓ **and regulating funding and policy actors**
- Small user-workshops (institutional level, working groups and graduate schools)
- Questionnaire for discussion and user survey (✓)
- Usage tracking - data portal (✓)
(200 users/month → 150 redirects to data providers)
- Feedback-function - data portal (✓ → ticketing is planned)
- Presentation at funders, congresses, steering committees
→ KDM, BMBF, HGF-Dialogplattform Erde-Umwelt
- Integration of/in EU- and international data infrastructures

Usage tracking in the data portal

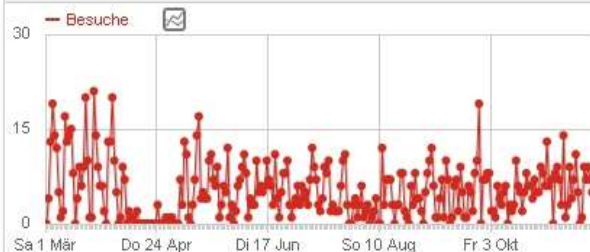
ZEITSPANNE: VON 2014-03-01 BIS 2014-11-21

ALLE BESUCHE

WIDGETS & DASHBOARD

NEUE VERSION: PIWIK 2.9.1

Graph der letzten Besuche



ANMERKUNGEN

Besucher in Echtzeit

DATUM	BESUCHE	SEITENANSICHTEN
Letzte 24 Stunden	5	13
Letzte 30 Minuten	0	0
Fr 21 Nov - 15:02:58		- IP: 139.17.116.0
von Google - "Suchbegriff nicht definiert"		
Seiten:		
Fr 21 Nov - 15:02:58		- IP: 139.17.116.0
Direkte Zugriffe		
Seiten:		
Fr 21 Nov - 13:37:23		- IP: 139.17.116.0
von Google - "Suchbegriff nicht definiert"		
Seiten:		
Fr 21 Nov - 11:10:47 (5 Minuten 52s)		- IP: 139.17.116.0
von Google - "Suchbegriff nicht definiert"		
Seiten:		

Liste der Suchbegriffe

SUCHBEGRIFF	BESUCHE
Suchbegriff nicht definiert	365
manida	18
meeresgeo	2
.wwwmanida.com	1
ark-xxviii/4 stein	1
data portal manida	1
hausgarten data portal	1
helmholtz zentrum geesthacht michael schulz	1
manida, awi	1
marine portal german marine research	1

1-10 von 12 NÄCHSTE >



10

Liste externer Webseiten

WEBSEITE	BESUCHE
semalt.semalt.com	46
www.geomar.de	20
www.awi.de	18
www.embrc.eu	18
buttons-for-website.com	10
www.bsh.de	9
www.eskp.de	9
www.pubflow.uni-kiel.de	7
musica.descarqar-musica-gratis.net	4

Besucherkarte

1.4k Besuche



Länder

Weltweit

Besuche

Besucher-Browser

BROWSER	BESUCHE
Firefox	673
Chrome	451
Internet Explorer	107
Safari	82
MF; 7.0	21

1-5 von 25 NÄCHSTE >



5

Verwandter Bericht: Browserversion

Suchmaschinen

SUCHMASCHINE	BESUCHE
Google	380

Feedback function

Chlorophyll

Bookmark your search

Provider

- PANGAEA (14905)
- COSYNA (2143)
- DOD (337)
- EPIC (224)
- OCEANREP (127)
- more facets...

No facets selected.

Sort by **best match** date

Geographic coverage



Region

- Atlantic Ocean (5021)
- Pacific Ocean (4572)
- Indian Ocean (1732)
- Southern Ocean (1526)
- Mediterranean Region (1067)
- more facets...

Pigment concentrations at station NIOP-B1_209-1 (2003)

Baars, Martien A; van der Spoel, Siebrécht, Veldhuis, Marcel
doi:10.1594/PANGAEA.94554

[tsv](#) [view object](#)

Pigment concentrations at station NIOP-B1_240-1 (2003)

Baars, Martien A; van der Spoel, Siebrécht, Veldhuis, Marcel
doi:10.1594/PANGAEA.94559

[tsv](#) [view object](#)

Pigment concentration

Baars, Martien A; van der Spoel, Siebrécht, Veldhuis, Marcel
doi:10.1594/PANGAEA.94581

[tsv](#) [view object](#)

Pigment concentration

Baars, Martien A; van der Spoel, Siebrécht, Veldhuis, Marcel
doi:10.1594/PANGAEA.94566

[tsv](#) [view object](#)

Pigment concentration

Baars, Martien A; van der Spoel, Siebrécht, Veldhuis, Marcel
doi:10.1594/PANGAEA.94580

[tsv](#) [view object](#)

Pigments measured on water bottle samples at station TT043_20-3 (2003)

Goericke, Ralf
doi:10.1594/PANGAEA.117899

[tsv](#) [view object](#)

Pigments measured on water bottle samples at station TT043_21-20 (2003)

Goericke, Ralf
doi:10.1594/PANGAEA.117902

[tsv](#) [view object](#)

Pigments measured on water bottle samples at station TT043_22-1 (2003)

Goericke, Ralf
doi:10.1594/PANGAEA.117907

[tsv](#) [view object](#)

Pigments measured on water bottle samples at station TT043_26-16 (2003)

Goericke, Ralf

I have a suggestion

I like

I found a bug

Please provide some details. We will use the details to learn more about our users.

Your profession:

Your email address:

Temporal coverage

Begin

End

filter by temporal coverage

Keywords

Relationships

Object overview

- Expeditions
- NIOP-B1
- Platforms
- Tyre
- Provider
- PANGAEA

Platform

- Thomas G. Thompson (1493)
- Discovery (1962) (1157)
- Meris on Envisat (1118)
- Modis on Aqua or Terra (1025)
- Nathaniel B. Palmer (716)
- more facets...

Expedition

- D192 (399)
- TT011 (359)
- TT007 (304)
- Historical_Chile (301)
- NBP97-08 (218)
- more facets...

Device

User dialog

- Improvement of data content (repositories)
 - Where are my data?
 - Why there aren't any data of ...?
 - Could you share and publish your data?
- Insufficient harmonisation/categorising to find/aggregate data
 - I can't find data under this term or name!
 - The data don't fit together!
- User requests ↔ ongoing improvements
- Priorities ↔ resources

Status quo – MaNIDA / Data Portal

- **Less** than 25% of data submission per ship's station of our research vessel data are available (big research vessels)
→ not validated, not traceable, not in our repositories
- We have to work **continuously** on a common base for **harmonisation** and categorising
- We have to work on common **workflows** and defined **responsibilities** including **resources**.
- **Granularities** of data sets are different:
 1. supplement to publications
 2. by cruise
 3. single parameter
- We need common **guidelines / directives**.

Perspectives – MaNIDA / Data Portal

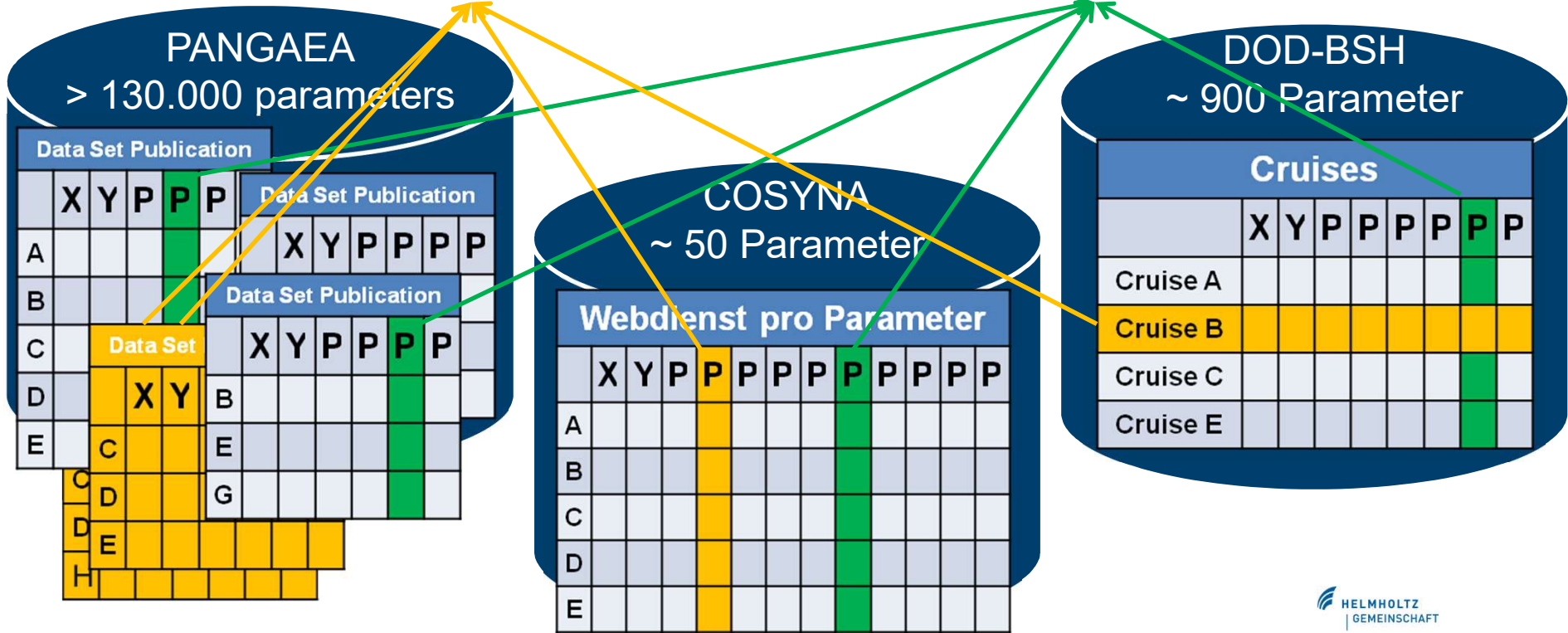
- 1) Improvements of data portal and data providers
 - Harmonisation via internat. standards/vocabularies
 - **Reasonable** direct data access (→ aggregation, products)
- 2) Guidelines
 - for data providers (✓)
 - Joint policy / DM-concept AWI, GEOMAR, HZG (1/2✓ 02/2016)
- 3) Central “**Landstation**” (incl. ~data curation center) for national (middle-big) research vessels (draft proposal ✓)
 - Basic workflows **underway data** (coast calculation ✓)
 - DMP → ticketing → responsible staff
 - Ship’s device server http://www.dship-devices.de/web/search_device (✓)
- 4) Permanent funding for basic operation (HGF/POF/ LK2 ???)

Granularity, harmonisation and direct data access

Data Portal German Marine Research

Search by keywords / facets
 different granularity →
 data sets of similar parameters
 → better categorisation
 via a Feature Catalogue

direct data access
 1:1-mapping of parameters
 extend to more parameters
 → aggregation of exact
 parameters via data warehouse



Chlorophyll

Search

Bookmark your search

Provider

- PANGAEA (14906)
- COSYNA (2143)
- DOD (337)
- EPIC (224)
- OCEANREP (127)
- more facets...

No facets selected.

Search by keywords of meta data and abstracts via Lucene Elastic Search

Sort by **best match** date

Geographic coverage



filter by map bounding box

Temporal coverage

Begin 2014-11-21

End 2014-11-21

filter by temporal coverage

Keywords

Relationships

Object overview

- Expeditions
(no expeditions associated)
- Platforms
- Modis on Aqua or Terra
- Provider
COSYNA

Region

- Atlantic Ocean (5021)
- Pacific Ocean (4572)
- Indian Ocean (1732)
- Southern Ocean (1526)
- Mediterranean Region (1067)
- more facets...

Author

- Krasemann, Hajo (2143)
- IFREMER (1683)
- Balch, William M (1603)
- BODC (1317)
- O'Reilly, J (1047)
- more facets...

Platform

- Thomas G. Thompson (1493)
- Discovery (1962) (1157)
- Meris on Envisat (1118)
- Modis on Aqua or Terra (1025)
- Nathaniel B. Palmer (716)
- more facets...

Expedition

- D192 (399)
- TT011 (359)
- TT007 (304)
- Historical_Chile (301)
- NBP97-08 (218)
- more facets...

Device

- CTD/Rosette (6237)
- Chlorophyll Case 2 Algorithmus (1118)
- Chlorophyll SeaDAS Processing

Pigment concentrations at station NIOP-B1_203-1 (2003)

Baars, Martien A; van der Spoel, Siebrecht; Veldhuis, Marcel
doi:10.1594/PANGAEA.94554

[tsv](#) [view object](#)

Pigment concentrations at station NIOP-B1_240-1 (2003)

Baars, Martien A; van der Spoel, Siebrecht; Veldhuis, Marcel
doi:10.1594/PANGAEA.94559

[tsv](#) [view object](#)

Pigment concentrations at station NIOP-B1_264-1 (2003)

Baars, Martien A; van der Spoel, Siebrecht; Veldhuis, Marcel
doi:10.1594/PANGAEA.94561

[tsv](#) [view object](#)

Pigment concentrations at station NIOP-B2_809-16 (2003)

Baars, Martien A; van der Spoel, Siebrecht; Veldhuis, Marcel
doi:10.1594/PANGAEA.94566

[tsv](#) [view object](#)

Pigment concentrations at station NIOP-B2_840-1 (2003)

Baars, Martien A; van der Spoel, Siebrecht; Veldhuis, Marcel
doi:10.1594/PANGAEA.94580

[tsv](#) [view object](#)

Pigments measured on water bottle samples at station TT043_20-3 (2003)

Goericke, Ralf
doi:10.1594/PANGAEA.117899

[tsv](#) [view object](#)

Pigments measured on water bottle samples at station TT043_21-20 (2003)

Goericke, Ralf
doi:10.1594/PANGAEA.117902

[tsv](#) [view object](#)

Pigments measured on water bottle samples at station TT043_22-1 (2003)

Goericke, Ralf
doi:10.1594/PANGAEA.117907

[tsv](#) [view object](#)

Pigments measured on water bottle samples at station TT043_26-16 (2003)

Goericke, Ralf
doi:10.1594/PANGAEA.117914

[tsv](#) [view object](#)

Pigments measured on water bottle samples at station TT043_27-1 (2003)

Goericke, Ralf

Direct Data Access Service

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Data request

Parameter
Provider

sea_water_temperatu
COSYNA
DOD
PANGAEA
comma separated va

Format

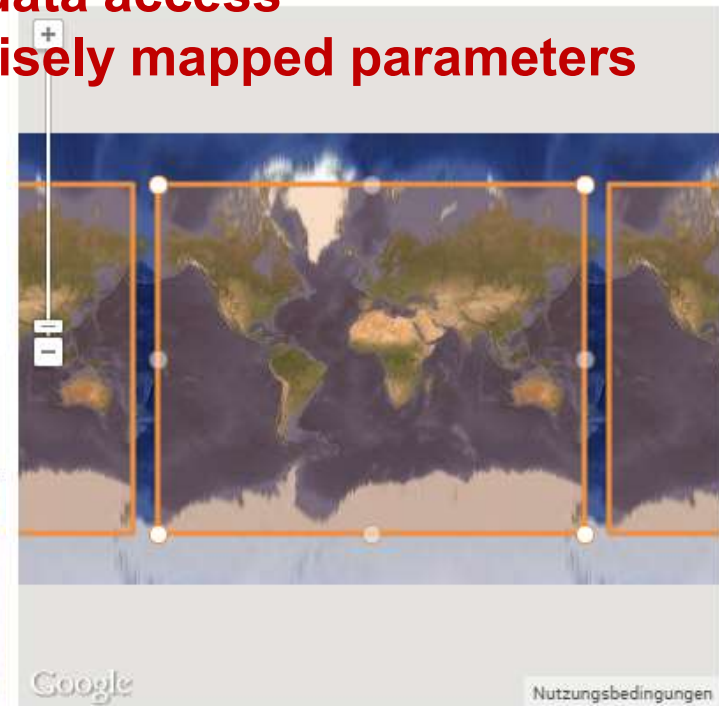
Constraints

	Begin	End
Date	2013-01-01	2013-02-01
Depth		
North	80	
East	170	
South	-80	
West	-170	

Your requests

Date	Parameter	Provider	Data points	Percent	Remaining	Status
2014-10-27 10:18:45	sea_water_temperature	COSYNA, DOD, PANGAEA	353818			FINISHED

direct data access
of precisely mapped parameters



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Data request

Parameter
Provider

sea_water_temperatu

COSYNA

**direct data access
of precisely mapped parameters**

065868b4-b8e5-4789-8b75-479c51fab007.csv - Microsoft Excel

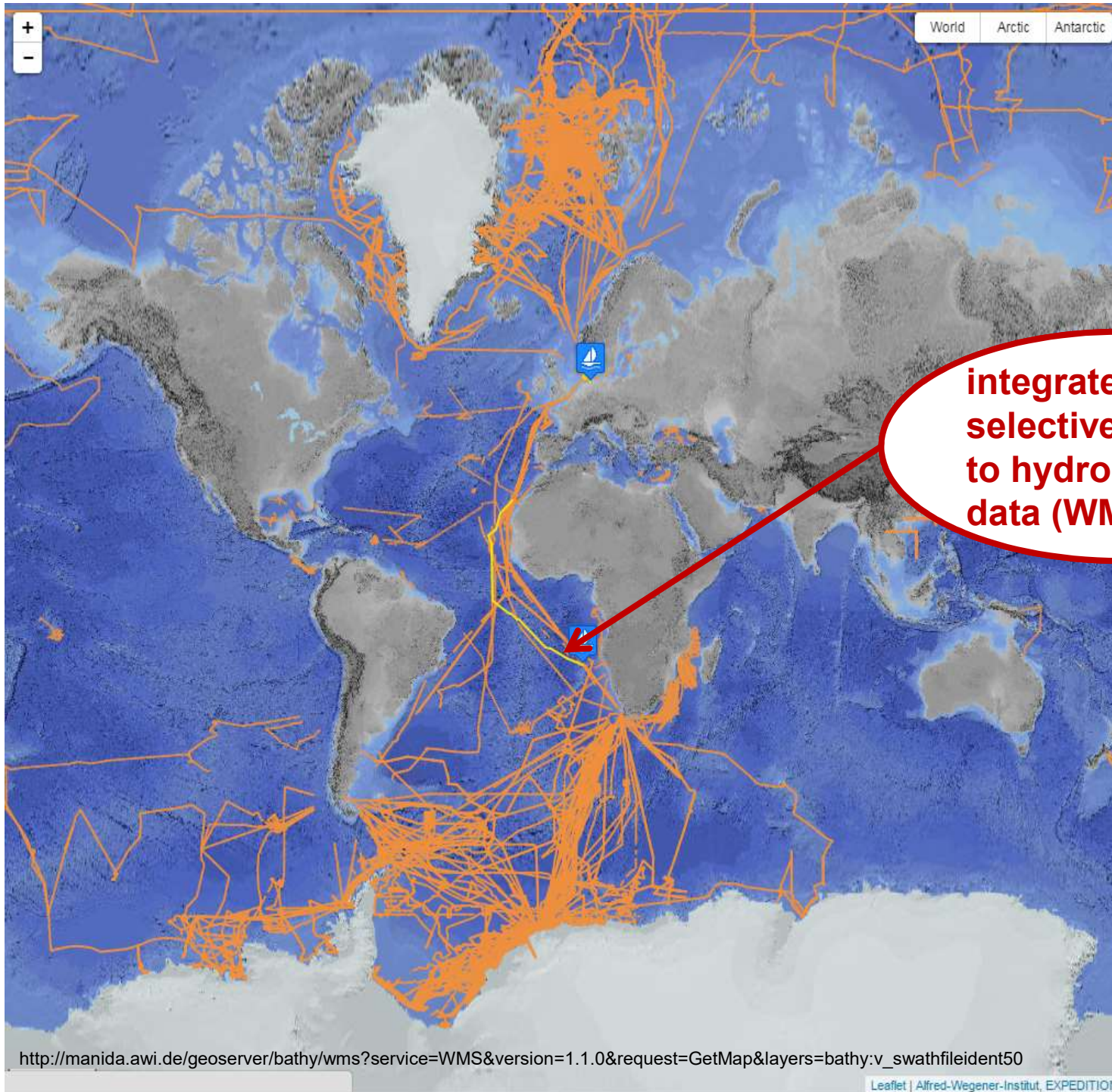
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	fx	datetimelatitudelongitudedepthvalueerrorqualitydevicevalue transformed?dataset
1		datetimelatitudelongitudedepthvalueerrorqualitydevicevalue transformed?dataset
2		1994-08-02 00:35:00.00074.9985925.266635.00.034861104truehttp://doi.pangaea.de/10.1594/PANGAEA.53256
3		1994-08-02 00:35:00.00074.9985925.2666311.00.034832187truehttp://doi.pangaea.de/10.1594/PANGAEA.53256
4		1994-08-02 00:45:00.00075.0022495.3858385.00.034857008truehttp://doi.pangaea.de/10.1594/PANGAEA.53256
5		1994-08-02 00:45:00.00075.0022495.38583811.00.034828043truehttp://doi.pangaea.de/10.1594/PANGAEA.53256
6		1994-08-02 00:55:00.00075.0018785.4995015.00.034868422truehttp://doi.pangaea.de/10.1594/PANGAEA.53256
7		1994-08-04 00:00:00.00054.6512.457.95597.77899980545044AcceptableProfiler, unknownfalsehttp://seadata.bsh.de/Cgi-csr/retrieve_dod/viewReport.pl?csrref=3948
8		1994-08-04 00:00:00.00054.6512.459.94487.90199995040894AcceptableProfiler, unknownfalsehttp://seadata.bsh.de/Cgi-csr/retrieve_dod/viewReport.pl?csrref=3948
9		1994-08-04 00:00:00.00054.6512.4510.93937.85500001907349AcceptableProfiler, unknownfalsehttp://seadata.bsh.de/Cgi-csr/retrieve_dod/viewReport.pl?csrref=3948
10		1994-08-04 00:00:00.00054.6512.4511.93377.875AcceptableProfiler, unknownfalsehttp://seadata.bsh.de/Cgi-csr/retrieve_dod/viewReport.pl?csrref=3948
11		1994-08-04 00:00:00.00054.6512.4513.92269.59099960327148AcceptableProfiler, unknownfalsehttp://seadata.bsh.de/Cgi-csr/retrieve_dod/viewReport.pl?csrref=3948
12		1994-08-04 00:00:00.00054.6512.4514.91711.9420002890991AcceptableProfiler, unknownfalsehttp://seadata.bsh.de/Cgi-csr/retrieve_dod/viewReport.pl?csrref=3948

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Web service bathymetry

in preparation

integrated, visual selective access to hydro acoustic data (WMS, WFS)



Web service
bathymetry
in preparation

The image shows a web browser window with a bathymetry map on the left and a data portal page on the right. The map displays ocean depths in shades of blue and orange lines representing survey tracks. The data portal page is titled "Data Portal German Marine Research" and features a navigation menu with "All", "Data", "Publications", "Expeditions", and "Platforms". A red callout box states "This portal is a beta. Please give us feedback." The main content area is titled "Case study - Bathymetry" and displays the GEOMAR logo and the dataset title "Dataset: M52-1 - SURF data". A red arrow points to the "DOI" link in the metadata table.

Archive	DOI
Dataset citation	HTML , BibTeX , RIS
Metadata of dataset	ISO 19115/19139 , FGDC , PANGAEA
Cruise	M52-1
Navigation system	
Horizontal reference system (EPSG)	WGS84 geographic (4326)
Sonar system	Hydrosweep DS2
Sonar type	multibeam
Depth definition	True depths
Depth datum (EPSG)	MeanSeaLevel depth (5715)
File format	SAM Electronics SURF format
File listing	154 files, as XML file
Tracklength [km]	4870

Leaflet | Alfred-Wegener-Institut, EXPEDITION

Web service bathymetry in preparation

The image is a composite of two parts. On the left is a bathymetry map of the Black Sea region, showing depth contours in shades of blue and orange lines representing cruise tracks. On the right is a screenshot of a web browser window displaying a 'Data Description' page for a dataset. The browser's address bar shows the URL doi.pangaea.de/10.1594/PANGAEA.816221. The page content includes a citation, related works, coverage details, and event information.

Data Description

Citation: Weinrebe, Wilhelm Reimer; Klaucke, Ingo (2013): Swath sonar bathymetry during METEOR cruise M52/1 with links to multibeam raw data files. *Research Center for Marine Geosciences at Christian Albrechts University, Kiel*, Unpublished dataset #816221

Related to: Bohrmann, Gerhard; et al (2002): Black Sea 2002 Part 1 - Cruise No. 52, Leg 1, 2 January - 1 February 2002, Istanbul - Istanbul. *METEOR-Berichte, Leitstelle Meteor, Institut für Meereskunde der Universität Hamburg*, 03-2, 56 pp, doi:10.2312/cr_m52-1

Further details: ATLAS SURF API-3.1 - The Software Interface for ATLAS Echo-Sounders (2003). *ATLAS Hydrographic, Bremen*, hdl:10013/epic.38034.d001

Coverage: Median Latitude: 44.196504 * Median Longitude: 34.780977 * South-bound Latitude: 43.330783 * West-bound Longitude: 33.054850 * North-bound Latitude: 44.713117 * East-bound Longitude: 36.025033

Date/Time Start: 2002-01-03T18:03:07 * **Date/Time End:** 2002-01-30T16:06:08

Event(s): M52/1-track * Latitude Start: 41.012000 * Longitude Start: 28.996000 * Latitude End: 41.012000 * Longitude End: 28.996000 * Date/Time Start: 2002-01-02T00:00:00 * Date/Time End: 2002-02-01T00:00:00 * Location: Black Sea * Campaign: M52/1 * Basis: Meteor (1986) * Device: Underway cruise track measurements * Comment: Istanbul - Istanbul

Comment: Multibeam data were collected during R/V Meteor cruise M52/1 leading to easterly Black Sea. Multibeam sonar system was ATLAS Hydrosweep DS-2. Data are unprocessed and may contain outliers and blunders and should not be used for grid calculations and charting projects without further editing. The raw multibeam sonar data are provided in ATLAS SURF format (*.sda/*.six). 154 files are compressed with GZIP to size of 247 MB (600 MB without compression). One dataset contains a measurement period of four hours. ATLAS SURF files can be processed using the software packages CARIS HIPS/SIPS or with the open source software package MB-System.

#	Name	Short Name	Unit	Principal Investigator	Method	Comment

Web service bathymetry in preparation

The screenshot shows a web browser window displaying a data portal page. The page title is "Data Portal German Marine Resea...". The browser address bar shows the URL "doi.pangaea.de/10.1594/PANGAEA.816221". The page content includes a "Data Description" section with the following information:

Citation: Weinrebe, Wilhelm Reimer; Klaucke, Ingo (2013): Swath sonar bathymetry during METEOR cruise M52/1 with links to multibeam raw data files. *Research Center for Marine Geosciences at Christian Albrechts University, Kiel*, Unpublished dataset #816221

Related to: Bohrmann, Gerhard; et al (2002): Black Sea 2002 Part 1 - Cruise No. 52, Leg 1, 2 January - 1 February 2002, Istanbul - Istanbul. *METEOR-Berichte, Leitstelle Meteor, Institut für Meereskunde der Universität Hamburg*, 03-2, 56 pp, doi:10.2312/cr_m52-1

Further details: ATLAS SURF API-3.1 - The Software Interface for Echo-Sounders (2003). *ATLAS Hydrography*, doi:10.10013/epic.38034.d001

Coverage: Median Latitude: 44.196504 * Median Longitude: 33.054850 * South-bound Latitude: 43.330783 * West-bound Longitude: 33.054850 * North-bound Latitude: 44.196504 * Date/Time Start: 2002-01-03T18:03:07 * Date/Time End: 2002-01-03T18:03:07

Event(s): M52/1-track * Latitude Start: 41.012000 * Latitude End: 28.996000 * Date/Time Start: 2002-01-02T18:03:07 * Date/Time End: 2002-01-03T18:03:07 * Campaign: M52/1 * Basis: Meteor (1986) Istanbul

Comment: Multibeam data were collected during R/V METEOR cruise M52/1. Data are unprocessed and charting projects without further processing. 154 files are compressed in the format (*.sda/*.six). 154 files are compressed in the format HIPS/SIPS or with the op

Parameter(s):

#	Name
---	------

A download dialog box titled "Öffnen von M52_1_bathymetry-datalinks.tab" is open, showing the file "M52_1_bathymetry-datalinks.tab" (TAB-Datei) from "http://doi.pangaea.de". The dialog asks "Wie soll Firefox mit dieser Datei verfahren?" and offers three options: "Öffnen mit Editor", "Datei speichern" (selected), and "Für Dateien dieses Typs immer diese Aktion ausführen". A red arrow points to the "Datei speichern" option.

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Perspectives – central “*Landstation*”



- Searchability and access of **complete, quality assured** and **published** primary data and data products
- Linking of data and scientific publications
- Visibility and citability of data and scientific results
- International networking of national contributions
- Validated information on expeditions
- Transparency of the use of funds for evaluation
- Enhanced planning of research projects and expeditions

Data Portal German Marine Research

Basket (0) RSS Imprint

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chlorophyll

Search

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Provider

PANGAEA (436)
DOD (73)
OCEANREP (14)
EPIC (13)
HZG (2)

Region

Author

Platform

Meteor (1986) (100)
Polarstern (76)
Poseidon (37)
Henryk Arctowski Polish Ant.
Station (25)
Steaua de Mare I (23)
more facets...

Expedition

Device

CTD/Rosette (132)
MultiCorer (100)
plankton nets (48)
sieves and filters (38)
Fluoroprobe (37)
more facets...

Parameter

Project

Dissemination

Access

open access (368)
access rights needed (89)

Media type

File type

tsv (424)
zip (18)
pdf (15)

No facets selected.

Sort by **best match** date

Chlorophyll at fluoroprobe station AL221/1_491-FLP31 (2009)

Mengedoht, Dirk

doi:10.1594/PANGAEA.712167

[tsv](#) [view object](#)

Chlorophyll at fluoroprobe station AL221/1_500-FLP40 (2009)

Mengedoht, Dirk

doi:10.1594/PANGAEA.712174

[tsv](#) [view object](#)

Chlorophyll at fluoroprobe station AL221/1_517-FLP56 (2009)

Mengedoht, Dirk

doi:10.1594/PANGAEA.712171

[tsv](#) [view object](#)

Chlorophyll at fluoroprob

Mengedoht, Dirk

doi:10.1594/PANGAEA.712171

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Chlorophyll at fluoroprob

Mengedoht, Dirk

doi:10.1594/PANGAEA.712171

[tsv](#) [view object](#)

Chlorophyll at fluoroprobe station PO324_12-FLP14 (2009)

Mengedoht, Dirk

doi:10.1594/PANGAEA.712198

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Chlorophyll at fluoroprobe station PO324_21-FLP60 (2009)

Mengedoht, Dirk

doi:10.1594/PANGAEA.712201

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Hydrochemistry and pigments measured on water bottle samples at Cardoza Cove in 2007 (2010)

Wasilowska, Agnieszka; Rzepecki, Marek

doi:10.1594/PANGAEA.740082

[tsv](#) [view object](#)

Hydrochemistry and pigments measured on water bottle samples at Monsimet Cove in 2007 (2010)

Wasilowska, Agnieszka; Rzepecki, Marek

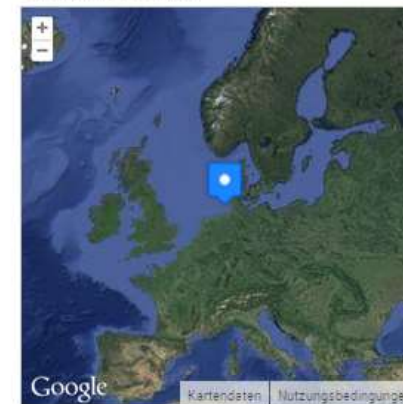
doi:10.1594/PANGAEA.740087

[tsv](#) [view object](#)

...please use the data portal
and leave us some feedback

Thank you

Geographic coverage


 filter by map bounding box

Temporal coverage

Begin 2009-02-01

End 2010-12-31

 filter by temporal coverage

Keywords

Relationships

Object overview

Expeditions

AL221/1

Platforms

Alkor

Provider

PANGAEA