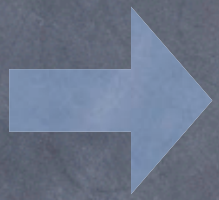
PANGAEA

Publishing Network for Geoscientific and Environmental Data



The Data system for HERMES

Hannes Grobe (WP9)

World Data Center for Marine Environmental Sciences

Public

Librarians>science

???

'Knowledge'

Publications

Data

www.pangaea.de

- Public **library** for georeferenced data
- Basic research on earth & environment
- Normalized data model
- Open parameter list
- Internet clients for download
- Networking with other systems (ISO/XML)

Operating Institutions

marum

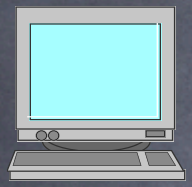
AWI

World Data Center for Marine Environmental Sciences

ICSU World Data Center

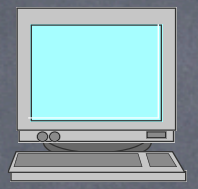
World Data Center
for Marine Environmental Sciences

Network

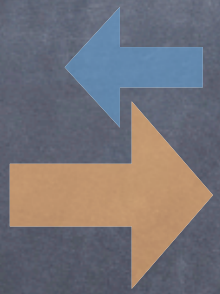


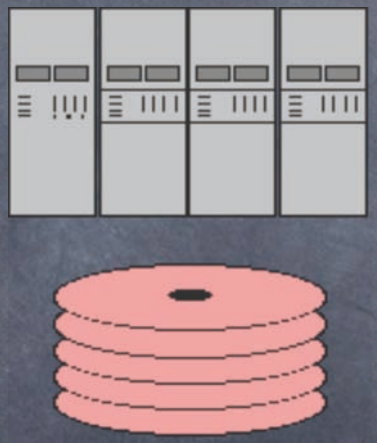
Import

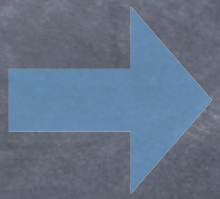
Export



Internet







4D Server

Database Server

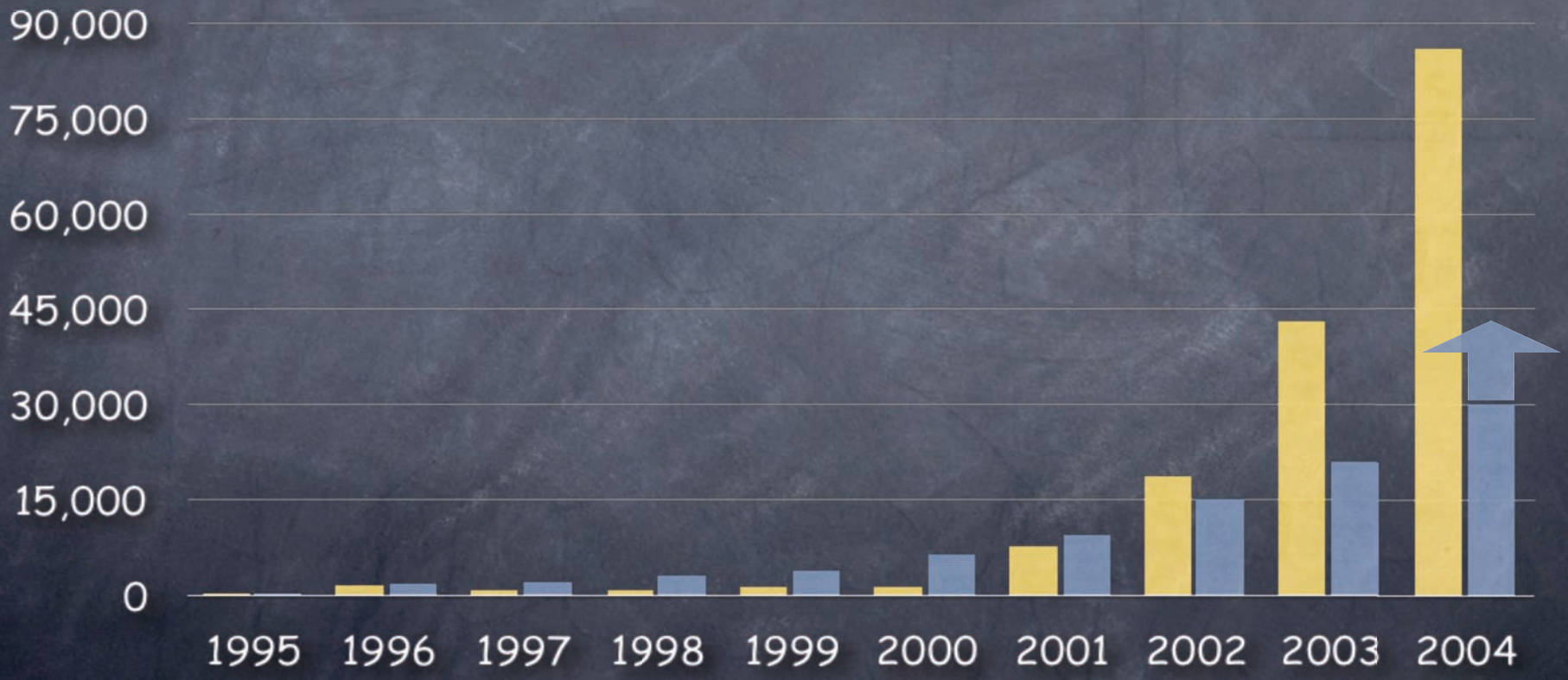
WWW Server

World Data Center for Marine Environmental Sciences

Datasets

Data online 2005-04-01

Projects:	140
References:	3 515
Data sets:	205 179
Data:	227 650 033



World Data Center for Marine Environmental Sciences

Geo-code & meta-data

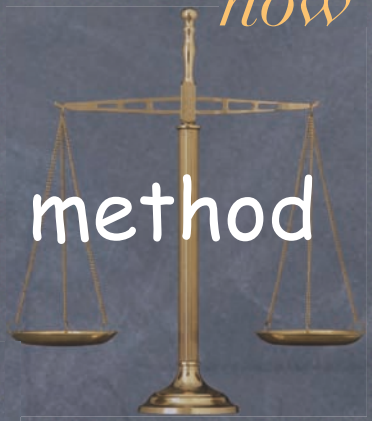
when ?

date/time
age

what ?

parameter
[unit]

how ?



method

123.456 text

latitude
longitude

where ?

ice, water, air,
sediment, object...

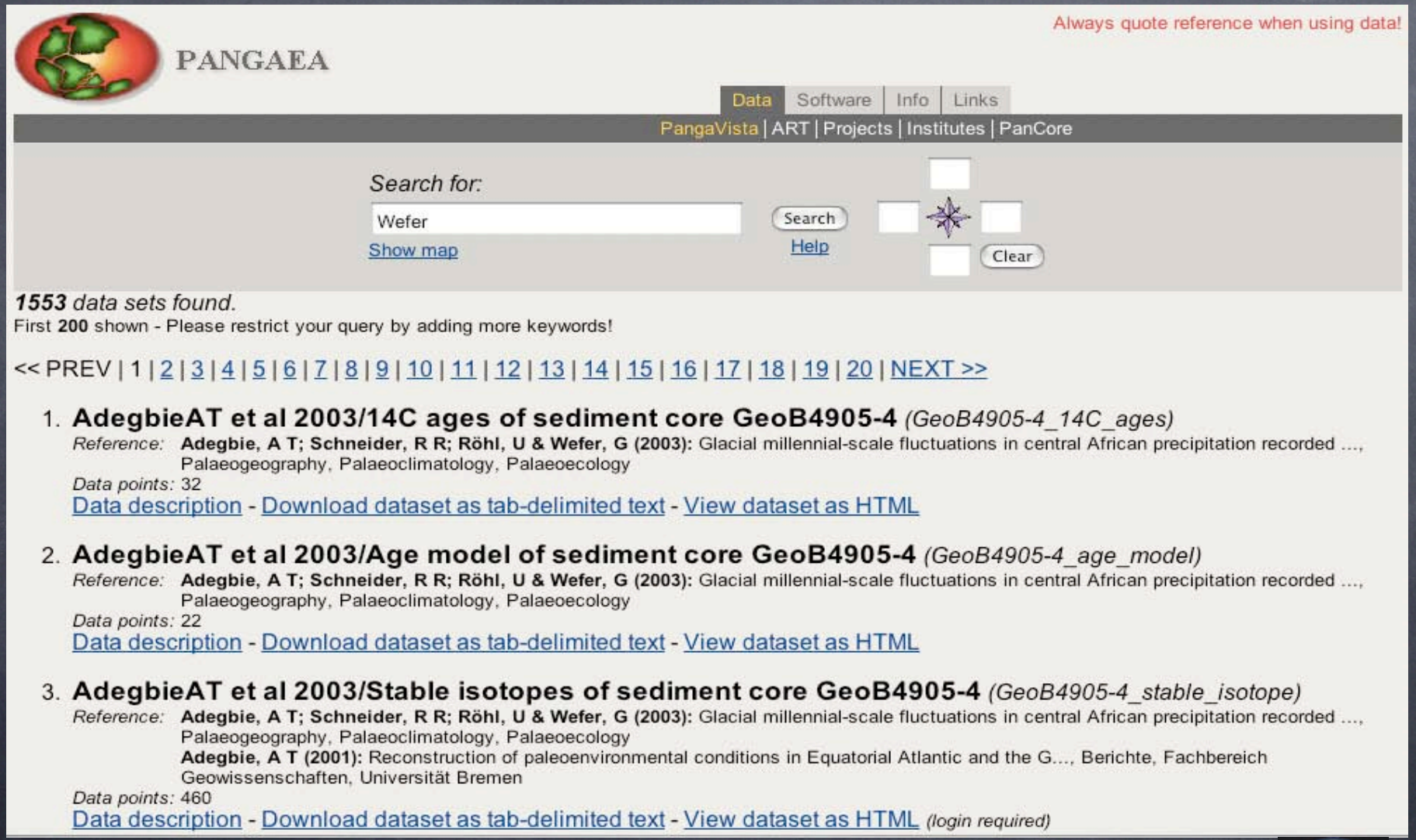
who ?

investigator
reference

World Data Center for Marine Environmental Sciences


HERMES
TAVERNA

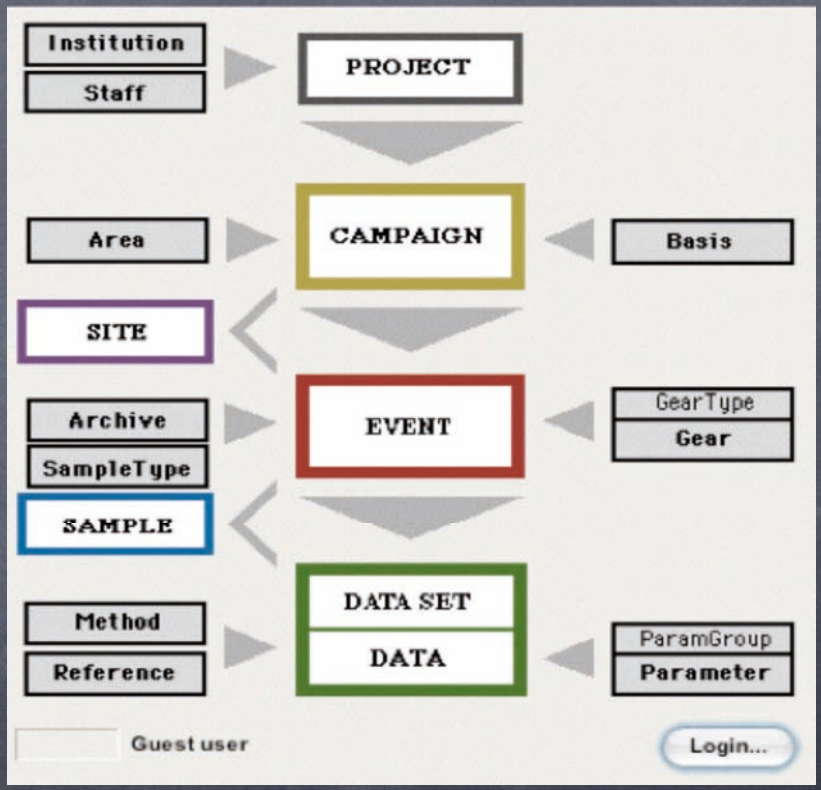
Search Engine PangaVista



Remote data mining

ART

Advanced Retrieval Tool



Links

CRP
Cape Roberts Project

- Home
- CRP-1
  - Sample list
  - Core box images
  - Data
- CRP-2
- CRP-3

CRP-1

Barret, P J; Fielding, C & Wise, S W (eds) (1998): Initial Report on CRP-1, Cape Roberts Project, Antarctica. Terra Antartica, 5(1): 187 p

Hambrey, M; Wise, S; Barret, P; Davey, F; Ehrmann, W; Smellie, J; Villa, G & Woolfe, K (eds) (1998): Studies from the Cape Roberts Project, Ross Sea, Antarctica; Scientific Report of CRP-1. Terra Antartica, 5(3): 713 p

Yuretich, R; Melles, M; Sarata, B & Grobe, H (1999) Clay minerals in the sediments of Lake Baikal: a useful climate proxy. Journal of Sedimentary Research, (69(3)), 588-596 p
Core BDP93-2 sedimentology

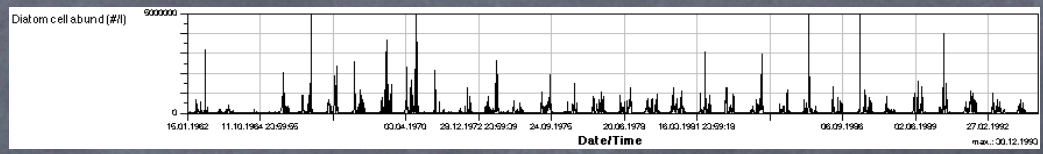
IMAGES Cores

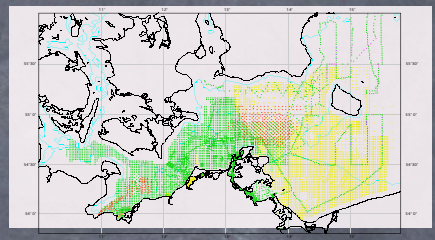
- Images I:1995
- Images II:1996
- Images III:1997
- Images IV:1998
- Images V:1999
- Images VI:2000
- Images VII:2001
- Images VIII/IX:2002
- Images X/XI:2003

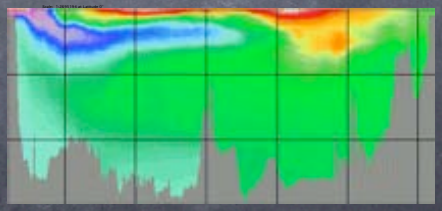
Core	Latitude (dec °)	Longitude (dec °)	Waterdepth (m)	Corelength (m)
MD95-2001	46.8	-8.67	3788	22.37
MD95-2002	47.45	-8.53	2174	29.99
MD95-2003	55.18	-14.76	2365	26.93
MD95-2004	55.47	-14.68	2177	28.485
MD95-2005	57.03	-10.06	2130	22.02
MD95-2006	57.03	-10.06	2122	30.22
MD95-2007	57.52	-8.39	158	19.35
MD95-2008	62.74	-3.99	1016	21.5

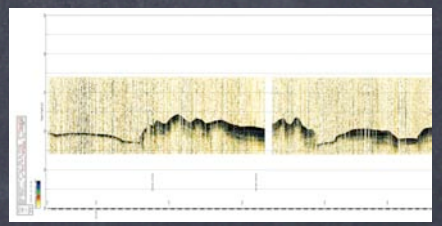
Examples from Environmental Research

- Images
- Times Series
- Distributed data
- Vertical profiles
- Horizontal profiles









Data Description

Citation: **Gutt, Julian (2004):** Sea-bed photographs (benthos) from the Weddell Sea along ROV profile PS39/006-18 (©AWI, Gutt 1996), *PANGAEA*, doi:10.1594/PANGAEA.198644

Reference(s):

Gutt, Julian; Arntz, Wolf E; Balguerias, Eduardo; Brandt, Angelika; Gerdes, Dieter; Gorny, Matthias; Sirenko, Boris I (2003): Diverse approaches to questions of diversity: German contributions to benthos studies around South American and Antarctica, *Gayana*, **67**, 177-189

Gutt, Julian; Piepenburg, Dieter (2003): Scale-dependent impacts of catastrophic disturbances by grounding icebergs on the diversity of Antarctic benthos, *Marine Ecology Progress Series*, **253**, 77-83, http://www.int-res.com/abstracts/meps/v253/p77-83.html

Gutt, Julian; Starmans, Andreas (2001): Quantification of iceberg impact and benthic recolonisation patterns in the Weddell Sea (Antarctica), *Polar Biology*, **24(8)**, 615-619, doi:10.1007/s003000100263

Gutt, Julian (2001): High latitude antarctic benthos: a coevolution of nature conservation and ecosystem research?, *Ocean and Polar Research*, **23**, 411-417

Gutt, Julian (2001): On the direct impact of ice on marine benthic communities, a review, *Polar Biology*, **24(8)**, 553-564, doi:10.1007/s003000100262

Gutt, Julian (2000): Some driving forces structuring communities of the sublittoral Antarctic macrobenthos, *Antarctic Science*, **12(3)**, 297-313

Project(s): **Archive of Underwater Imaging** (AUI)

Ecology of the Antarctic Sea Ice Zone (EASIZ)

Spatial Coverage: *West:* -13.4483 * *East:* -13.4483 * *South:* -71.5317 * *North:* -71.5317

Event(s): **PS39/006-18** * *Latitude:* -71.5317 * *Longitude:* -13.4483 * *Elevation:* -227.0 m * *DateTime:* 1996-02-25T13:24:00 * *Latitude 2:* -71.5400 * *Longitude 2:* -13.4717 * *Elevation 2:* -220.0 m * *DateTime 2:* 1996-02-25T15:04:00 * *Location:* Eastern Weddell Sea * *Campaign:* ANT-XIII/3 * *Basis:* Polarstern * *Device:* Remote operated vehicle, SPRINT 103 * *Comment:* wind: NE 6/7

Parameter(s):

Parameter	Short Name	Unit	Principal Investigator	Method	Comment
LATITUDE	Latitude				*Geocode*
LONGITUDE	Longitude				*Geocode*
Universal resource locator/Link to file	URL		Gutt, Julian		

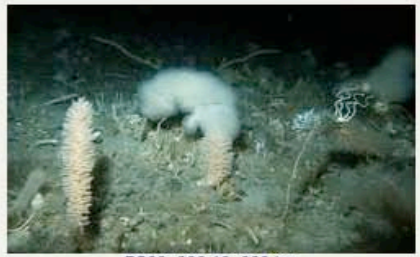
Comment: If any image from this collection is used, please cite the copyright as given above. ROV (sprint 103) equiped with 36mm still camera; Kodak Ektachrome 100; Nikon super coolscan 4000ED; JPEG compression. Along the same transect sea-bed was videotaped in betacam format using same lense system; J. Gutt: mailto:jgutt@awi-bremerhaven.de

Size: 1 data points

***86** files found*

<< PREV | 1 | 2 | 3 | NEXT >> Download all


PS39_006-18_006.jpg


PS39_006-18_008.jpg


PS39_006-18_009.jpg


PS39_006-18_010.jpg


PS39_006-18_011.jpg


PS39_006-18_012.jpg

BAH_diatoms_pennates_1962.tab

	A	B
1	/* DATA DESCRIPTION:	
2	Citation:	Gillbricht, Max (2000): Diatoms pennates Helgoland time series 1962, PANGAEA, unpublished dataset #56309
3	Reference(s):	Wiltshire, Karen H (2002): Unpublished data of the Biological Institute on Helgoland, contact Karen Wiltshire (kwiltshire@awi-bre
4	Project(s):	Projects of the Biologische Anstalt Helgoland, Hamburg, Germany (BAH)
5	Spatial Coverage:	WEST: 7.9000 * EAST: 7.9000 * SOUTH: 54.1883 * NORTH: 54.1883
6	Event(s):	HelgolandRoads1962 * LATITUDE: 54.1883 * LONGITUDE: 7.9000 * ELEVATION: -10.0 m * DATETIME: 1962-01-01T00:00:00 * D
7	Parameter(s):	DATE/TIME (Date/Time) * Geocode
8		DEPTH, water [m] (Depth water) * Geocode
9		LATITUDE (Latitude) * Geocode
10		LONGITUDE (Longitude) * Geocode
11		Asterionellopsis glacialis [#/l] (A. glacialis) * PI: Gillbricht, Max (eMail: kwiltshire@awi-bremerhaven.de) * METHOD: Utermoehl tec
12		Asterionellopsis kariana [#/l] (A. kariana) * PI: Gillbricht, Max (eMail: kwiltshire@awi-bremerhaven.de) * METHOD: Utermoehl tec
13		***
14		Pennales indet. 8;40 [#/l] (Pennales indet. 8;40) * PI: Gillbricht, Max (eMail: kwiltshire@awi-bremerhaven.de) * METHOD: Uterm
15		Pleurosigma sp. [#/l] (Pleurosigma sp.) * PI: Gillbricht, Max (eMail: kwiltshire@awi-bremerhaven.de) * METHOD: Utermoehl techn
16		Rhaphoneis amphiceros [#/l] (R. amphiceros) * PI: Gillbricht, Max (eMail: kwiltshire@awi-bremerhaven.de) * METHOD: Utermoehl
17		Stauroneis membranacea [#/l] (S. membranacea) * PI: Gillbricht, Max (eMail: kwiltshire@awi-bremerhaven.de) * METHOD: Uterm
18		Thalassionema nitzschioides [#/l] (T. nitzschioides) * PI: Gillbricht, Max (eMail: kwiltshire@awi-bremerhaven.de) * METHOD: Uter
19	Size:	3472 data points
20	*/	

21	Date/Time	Depth water [m]	A. glacialis [#/l]	A. kariana [#/l]	B. paxillifera [#/l]	B. brockmannii [#/l]	C. closterium [#/l]	D. surirella [#/l]	Fragilaria sp. [#/l]	Gyrosigma sp. [#/l]	Gyrosigma sp. 30-120 [#/l]	Gyrosigma sp. 15-70 [#/l]	Navicula sp. [#/l]	Navicula sp. 30-80 [#/l]	Navicula sp. 10-40 [#/l]	P.-Nitzschia delicatissima [#	N. longissima [#/l]	P.-Nitzschia seriata [#/l]	P.-Nitzschia seriata 6-120 [	P.-Nitzschia seriata 5-70 [#,	Pennales indet [#/l]	Pennales indet. 15;60 [#/l]	Pennales indet. 20;80 [#/l]	Pennales indet. 25;120 [#/l	Pennales indet. 8;40 [#/l]	P. elongatum [#/l]
22	1962-08-29T10:20	0.5	0	0	0	0	0	0	0	0	0	0	200	0	200	0	0	0	0	0	0	0	0	0	0	0
23	1962-09-01T10:00	0.5	0	0	0	0	0	0	0	0	0	0	200	0	200	0	0	0	0	0	0	0	0	0	0	0
24	1962-09-03T09:50	0.5	0	0	0	0	0	0	0	0	0	0	3000	0	3000	0	0	0	0	0	0	0	0	0	0	0
25	1962-09-05T08:20	0.5	0	0	0	0	0	0	0	0	0	0	11000	0	11000	0	0	0	0	0	0	0	0	0	0	0
26	1962-09-07T08:50	0.5	0	0	0	0	0	0	0	0	0	0	7000	0	7000	0	0	0	0	0	0	0	0	0	0	0
27	1962-09-10T10:10	0.5	0	0	0	0	0	0	0	0	0	0	10000	0	10000	0	0	0	0	0	0	0	0	0	0	0
28	1962-09-12T10:00	0.5	0	0	0	0	0	0	0	0	0	0	7000	0	7000	0	0	0	0	0	0	0	0	0	0	0
29	1962-09-14T10:15	0.5	0	0	0	0	0	0	0	0	0	0	7100	0	7100	0	200	0	0	0	0	0	0	0	0	0
30	1962-09-17T09:30	0.5	0	0	0	0	0	0	0	0	0	0	3000	0	3000	0	0	0	0	0	0	0	0	0	0	0
31	1962-09-19T09:45	0.5	0	0	0	0	0	0	0	0	0	0	3180000	0	3180000	0	0	0	0	0	0	0	0	0	0	0
32	1962-09-22T09:35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	1962-09-24T09:15	0.5	14000	0	0	0	0	0	0	0	0	0	20000	0	20000	0	0	0	0	0	0	0	0	0	0	0
34	1962-09-27T07:55	0.5	10000	0	0	0	0	0	0	0	0	0	3000	0	3000	0	0	0	0	0	0	0	0	0	0	0

BAH_diatoms_pennates_1962.tab

Bereit | Summe=0 | SCRL | GROSS | NF

Data Description

Citation: **Schnack-Schiel, Sigrid; Dieckmann, Gerhard S (2004):** Chlorophyll a concentration in surface water during cruise ANT-V/3, *PANGAEA*, doi:10.1594/PANGAEA.217323

Reference(s): **Schnack-Schiel, Sigrid (1987):** Die Winter-Expedition mit FS Polarstern in die Antarktis (ANT V/1-3) (The Winter-Expedition of RV Polarstern to the Antarctic (ANT V/1-3)), *Reports on Polar Research, Alfred Wegener Institute for Polar and Marine Research, Bremerhaven*, **39**, 259 pp, http://www.awi-bremerhaven.de/BIB/BerPolarforsch/BerPolarforsch198739.pdf

Project(s): **Biological Oceanography @ AWI** (AWI_BioOce)

Spatial Coverage: *West:* -29.1600 * *East:* 6.0133 * *South:* -76.1283 * *North:* -54.6450

Parameter(s):

Parameter	Short Name	Unit	Principal Investigator	Method	Comment
DEPTH, water	Depth water	m			*Geocode*
LATITUDE	Latitude				*Geocode*
LONGITUDE	Longitude				*Geocode*
Chlorophyll a	Chl a	µg/l	Dieckmann, Gerhard S	Fluorometry	

Size: 25 data points

Data

Event label	Latitude	Longitude	Date/Time of event	Depth water [m]	Chl a [µg/l]
PS10/487-2	-54.6450	6.0133	1986-10-03T06:25	6.0	0.633
PS10/490-5	-58.0933	2.2383	1986-10-04T11:15	13.0	0.253
PS10/492-2	-60.6050	-0.7550	1986-10-05T17:08	7.0	0.117
PS10/498-1	-65.1217	-7.1683	1986-10-08T08:00	2.0	0.062
PS10/501-1	-69.4300	-6.1617	1986-10-10T16:13	16.0	0.047
PS10/504-3	-70.5067	-8.0417	1986-10-12T07:58	4.0	0.013
PS10/509-2	-72.8033	-19.5767	1986-10-16T06:30	4.0	0.008
PS10/512-2	-72.5350	-20.5783	1986-10-17T14:13	2.5	0.024
PS10/529-1	-72.5567	-18.1133	1986-10-23T06:12	20.0	0.012
PS10/544-1	-76.0700	-27.9133	1986-10-28T08:04	2.0	0.278
PS10/548-6	-75.7850	-29.1600	1986-10-30T08:22	5.0	0.044
PS10/562-2	-72.8433	-19.6900	1986-11-03T15:44	6.0	0.015
PS10/564-3	-72.8283	-19.8783	1986-11-03T21:49	5.0	0.016
PS10/566-6	-73.2750	-21.0750	1986-11-04T14:26	5.0	0.016
PS10/584-3	-76.1283	-28.3033	1986-11-10T12:46	4.0	0.050

Data Description

Citation: **Eldin, Gérard (2004):** Physical oceanography at CTD station EBENE_142, *PANGAEA*, doi:10.1594/PANGAEA.187410

Reference(s): **Eldin, Gérard; Rodier, Martine (2003):** Ocean physics and nutrient fields along 180° during an El Niño-Southern Oscillation cold phase, *Journal of Geophysical Research*, **108(C12)**, 8137, doi:10.1029/2000JC000746

Project(s): **Biogeochemical Processes in the Oceans and Fluxes** (PROOF)

Joint Global Ocean Flux Study (JGOFS)

Spatial Coverage: *West:* -179.8670 * *East:* -179.8670 * *South:* 3.0000 * *North:* 3.0000

Event(s): **EBENE_142** * *Latitude:* 3.0000 * *Longitude:* -179.8667 * *DateTime:* 1996-11-10T05:58:00 * *Location:* Equatorial Pacific * *Campaign:* EBENE * *Basis:* L Atalante * *Device:* CTD

Parameter(s):

Parameter	Short Name	Unit	Principal Investigator	Method	Comment
DEPTH, water	Depth water	m			*Geocode*
LATITUDE	Latitude				*Geocode*
LONGITUDE	Longitude				*Geocode*
Optical beam attenuation coefficient, water+particle sum	BAC sum	1/m	Eldin, Gérard	CTD, SEA-BIRD	
Density	Density	kg/m^3	Eldin, Gérard	CTD, SEA-BIRD	
Fluorescence, chlorophyll	Fluores	µg/l	Eldin, Gérard	CTD, SEA-BIRD	
Oxygen	O2	µmol/l	Eldin, Gérard	CTD, SEA-BIRD	
Radiation, photosynthetically active	PAR	µE/m^2/sec	Eldin, Gérard	CTD, SEA-BIRD	
Salinity	Sal		Eldin, Gérard	CTD, SEA-BIRD	
Density, sigma-theta (0)	Sigma-theta	kg/m^3	Eldin, Gérard	CTD, SEA-BIRD	
Temperature, water	Temp	deg C	Eldin, Gérard	CTD, SEA-BIRD	

Size: 1295 data points

Data

Depth water [m]	Temp [deg C]	Sal	Sigma-theta [kg/m^3]	Density [kg/m^3]	Fluores [µg/l]	PAR [µE/m^2/sec]	BAC sum [1/m]	O2 [µmol/l]
2	28.664	35.024	22.197	1022.205	0.345	2.252	0.449	138.257
4	28.661	35.025	22.198	1022.215	0.350		0.452	138.783
6	28.664	35.025	22.197	1022.222	0.351		0.451	138.904
8	28.665	35.025	22.197	1022.231	0.351		0.451	139.148
10	28.664	35.025	22.198	1022.240	0.337		0.450	139.108
12	28.665	35.025	22.198	1022.248	0.342		0.449	139.235
14	28.663	35.025	22.198	1022.257	0.333		0.450	139.286

Result for Stations

Long.	Lat.	Event	Date/Time	Elevation[m]	Gear-Type	Recovery
74.4160	-10.3150	PS57/072-1	14 Jul 2000 13:14:00	-3168	Multicorer	0.6000
74.4170	-10.3150	PS57/072	14 Jul 2000 12:11:00	-3196	Multicorer	

Result for Parasound Profiles

Cruise	Profile Start	Profile End	Depth (start)	PS3-File	SGY-File	Image	Meta-Data
ARK-XVI/1	14 Jul 2000 04:00	14 Jul 2000 12:00	3131	get data	get data	open image	meta-data

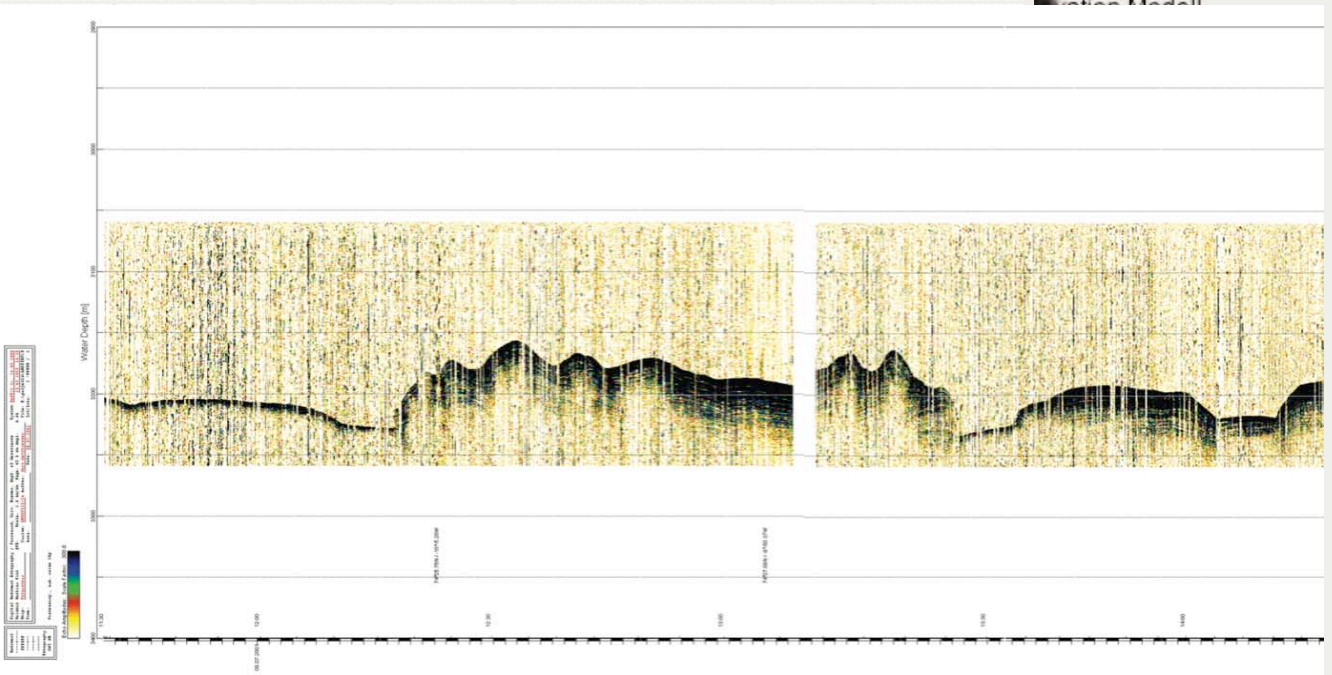
Key

- Stations ARK-XVI/1
- Parasound ARK-XVIII/1
- Parasound ARK-XVII/1
- Parasound ARK-XVI/1
- Coastlines

Index Map

Layers:

- tions
- rasound Profiles
- astline



Digital Object Identifier

doi>

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Computers & Geosciences
Volume 28, Issue 10, December 2002, Pages 1201-1210

DOI: 10.1016/S0098-3004(02)00039-0

PANGAEA--an information system for environmental sciences

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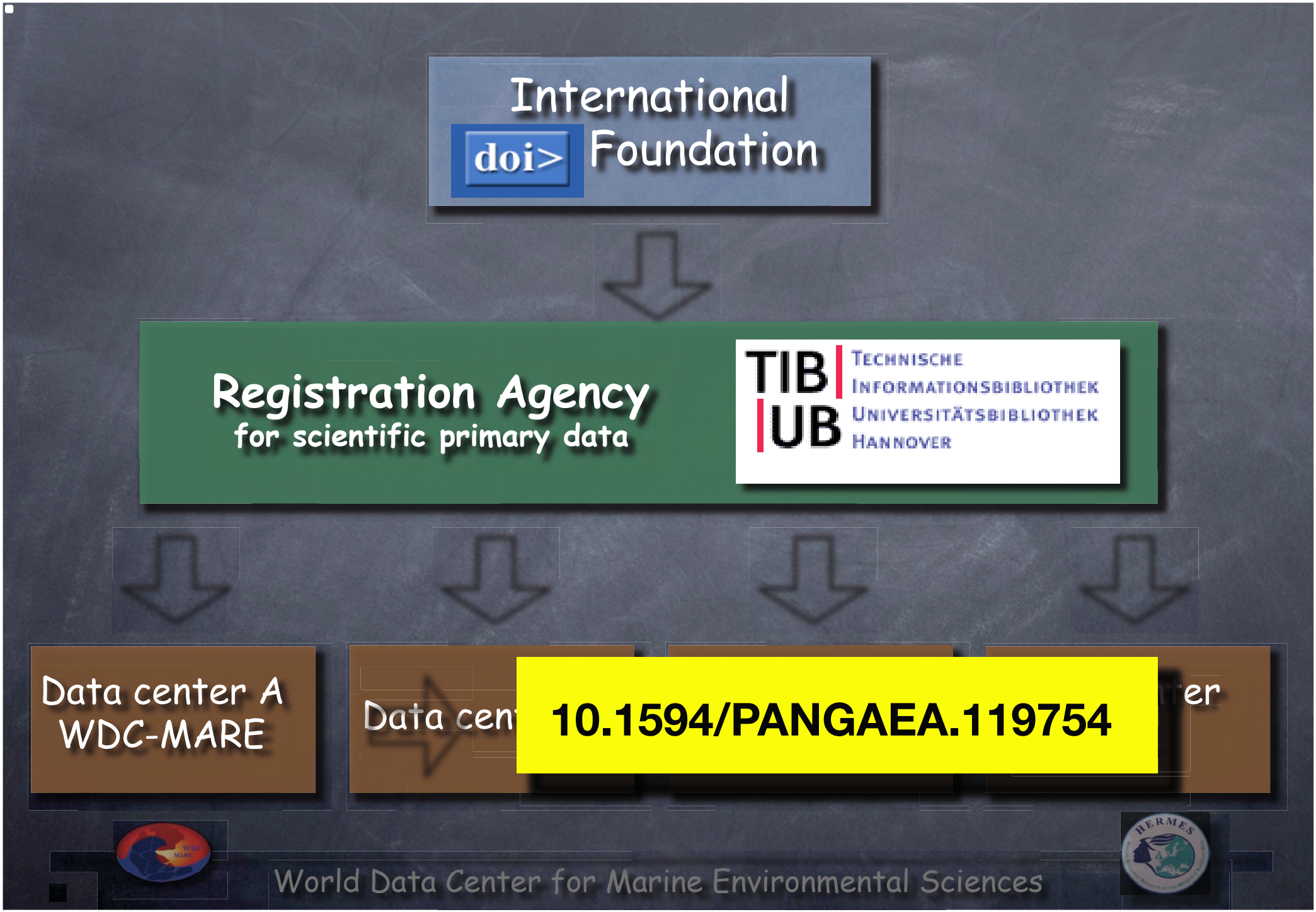
Abstract

PANGAEA is an information system for processing, long-term storage, and publication of georeferenced data related to earth science fields.


International
doi>
Foundation
Registration Agency
for scientific primary data
TIB
UB
Technische
Informationsbibliothek
Universitätsbibliothek
Hannover
Data center A
WDC-MARE
Data cen
10.1594/PANGAEA.119754
er
World Data Center for Marine Environmental Sciences
HERMES

Data Description

Citation: **Schnack-Schiel, Sigrid; Dieckmann, Gerhard S (2004):** Chlorophyll a concentration in surface water during cruise ANT-V/3, *PANGAEA*, doi:10.1594/PANGAEA.217323

Reference(s): **Schnack-Schiel, Sigrid (1987):** Die Winter-Expedition mit FS Polarstern in die Antarktis (ANT V/1-3) (The Winter-Expedition of RV Polarstern to the Antarctic (ANT V/1-3)), *Reports on Polar Research, Alfred Wegener Institute for Polar and Marine Research, Bremerhaven*, **39**, 259 pp, http://www.awi-bremerhaven.de/BIB/BerPolarforsch/BerPolarforsch198739.pdf

Project(s): **Biological Oceanography @ AWI** (AWI_BioOce)

Spatial Coverage: *West:* -29.1600 * *East:* 6.0133 * *South:* -76.1283 * *North:* -54.6450

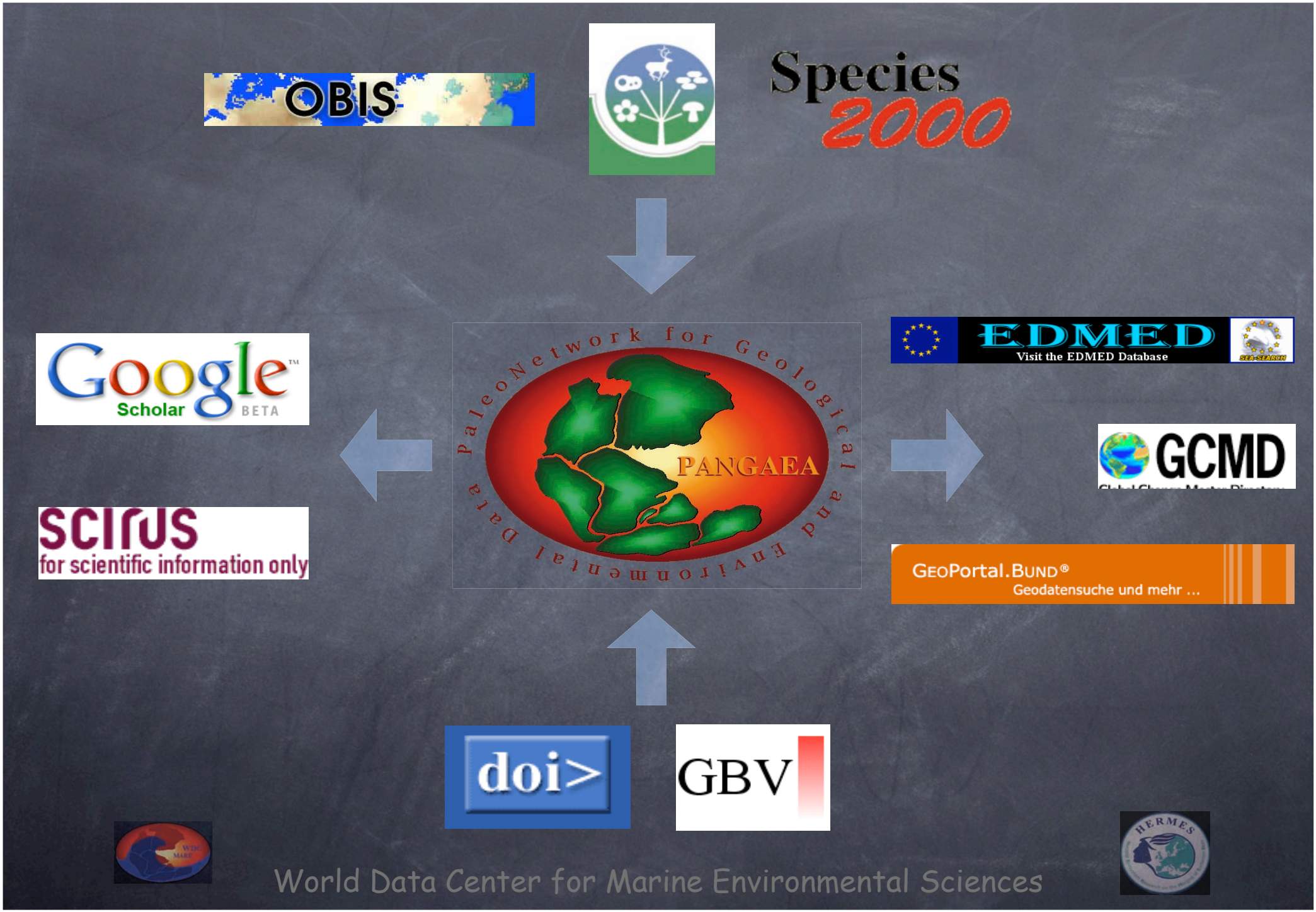
Parameter(s):

Parameter	Short Name	Unit	Principal Investigator	Method	Comment
DEPTH, water	Depth water	m			*Geocode*
LATITUDE	Latitude				*Geocode*
LONGITUDE	Longitude				*Geocode*
Chlorophyll a	Chl a	µg/l	Dieckmann, Gerhard S	Fluorometry	

Size: 25 data points

Data

Event label	Latitude	Longitude	Date/Time of event	Depth water [m]	Chl a [µg/l]
PS10/487-2	-54.6450	6.0133	1986-10-03T06:25	6.0	0.633
PS10/490-5	-58.0933	2.2383	1986-10-04T11:15	13.0	0.253
PS10/492-2	-60.6050	-0.7550	1986-10-05T17:08	7.0	0.117
PS10/498-1	-65.1217	-7.1683	1986-10-08T08:00	2.0	0.062
PS10/501-1	-69.4300	-6.1617	1986-10-10T16:13	16.0	0.047
PS10/504-3	-70.5067	-8.0417	1986-10-12T07:58	4.0	0.013
PS10/509-2	-72.8033	-19.5767	1986-10-16T06:30	4.0	0.008
PS10/512-2	-72.5350	-20.5783	1986-10-17T14:13	2.5	0.024
PS10/529-1	-72.5567	-18.1133	1986-10-23T06:12	20.0	0.012
PS10/544-1	-76.0700	-27.9133	1986-10-28T08:04	2.0	0.278
PS10/548-6	-75.7850	-29.1600	1986-10-30T08:22	5.0	0.044
PS10/562-2	-72.8433	-19.6900	1986-11-03T15:44	6.0	0.015
PS10/564-3	-72.8283	-19.8783	1986-11-03T21:49	5.0	0.016
PS10/566-6	-73.2750	-21.0750	1986-11-04T14:26	5.0	0.016
PS10/584-3	-76.1283	-28.3033	1986-11-10T12:46	4.0	0.050


OBIS
Species 2000
Google Scholar BETA
PaleoNetwork for Geological and Environmental Data
PANGAEA
EDMED
Visit the EDMED Database
SEA-SEARCH
GCMD
scirus
for scientific information only
GeoPortal.Bund®
Geodatensuche und mehr ...
doi>
GBV
HERMES
World Data Center for Marine Environmental Sciences

Deliverables WP9

Deliverables

D5. Development and distribution of HERMES data base parameter list (Month 4)
D8. Design of the HERMES data archive (Month 6)
D36. Banking of existing HERMES data through WP1-WP11 (Month 12)
D42. Opening of test web site to all HERMES partners (Month 14)
D73. Presentation of HERMES archive for storage and dissemination (Month 18)

Data flow

HERMES Partners

WP1

WP2

WP3

WP4

WP5

Data manager

existing

cruises

Data

post cruise

import log

WP9

GIS WP6

Model WP7

Scientific community

Initial steps and work flow

- Definition of parameters (partners>WP)
- Identification of existing data (partners>WP)
- Definition of import formats (PANGAEA)
- Provision of metadata/data (PI/WP)
- Import (PANGAEA)
- Notification & proof read (PI)
- Corrections (PANGAEA)
  - **Final publication** with citation and DOI
    (moratorium on request)

Added value for data in PANGAEA

Easy internet access

Overview on available data

Sharing between partners, GIS & modelling

Consistent format

Long-term availability

Persistent identifier (DOI) & citation

Distribution through portals & search engines

Hic Rhodos - Hic Salta !