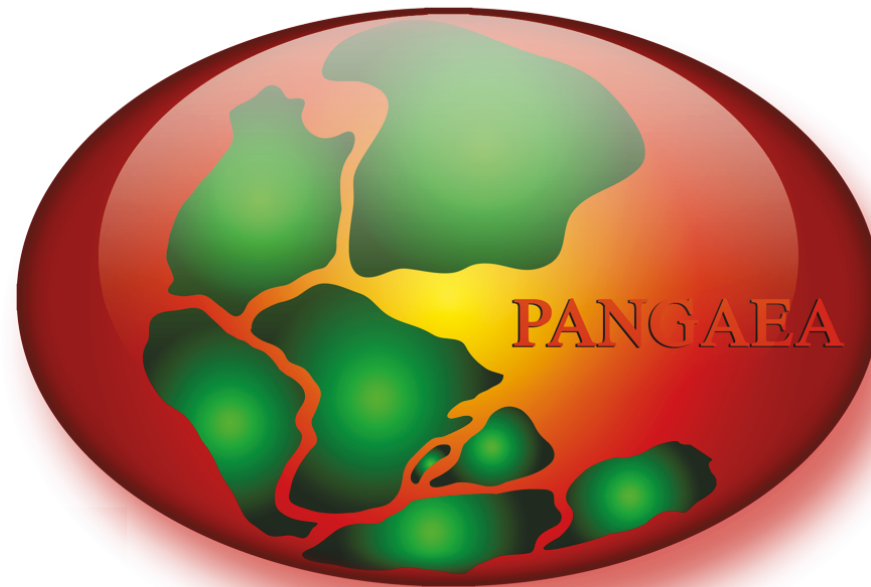


# An introduction to the Data Library PANGAEA®



Stefanie Schumacher & Rainer Sieger

At the beginning ...



... of your thesis





Don't lose your data ...



The screenshot shows the top section of a SPIEGEL ONLINE article. At the top left is the 'SPIEGEL ONLINE' logo in white text on a red and black background, followed by 'WISSENSCHAFT' in white on a green background. Below this is a navigation bar with links for 'NACHRICHTEN', 'VIDEO', 'ENGLISH', 'EINESTAGES', 'FORUM', and 'SPIEGEL WISSEN'. A secondary navigation bar lists categories: 'Home | Politik | Wirtschaft | Panorama | Sport | Kultur | Netzwelt | Wissenschaft'. The breadcrumb trail reads 'Nachrichten > Wissenschaft > Weltall'. The date '15. August 2006' is shown on the left, and 'Drucken | Senden | Bookmark | Merken' are on the right. The article title is 'PEINLICHE PANNE' in bold black text, with a 'Schrift: - +' font size control to its right. The main headline is 'Nasa hat Mondlandungs-Videos verbummelt' in large green text. The lead paragraph reads: 'Es klingt wie in einem schlechten Film: Die Kassetten mit den Bildern der ersten Mondlandung sind weg. Nasa-Mitarbeiter haben über ein Jahr nach den Videos gesucht - und sie nicht gefunden.'

NASA lost tapes  
of first  
moon-landing

... archive the data



minimum period  
of 10 years

open access

## DFG

### Empfehlungen der Kommission "Selbstkontrolle in der Wissenschaft"

Vorschläge zur Sicherung guter wissenschaftlicher Praxis  
Januar 1998

### Empfehlung 7

Primärdaten als Grundlagen für Veröffentlichungen sollen auf haltbaren und gesicherten Trägern in der Institution, wo sie entstanden sind, für zehn Jahre aufbewahrt werden.



European Science Foundation Policy Briefing

### Good scientific practice in research and scholarship

December 2000

10

#### *Data accumulation, handling and storage*

36. Data are produced at all stages in experimental research and in scholarship. Data sets are an important resource, which enable later verification of scientific interpretation and conclusions. They may also be the starting point for further studies. It is vital, therefore, that all primary and secondary data are stored in a secure and accessible form.
37. Institutions must pay particular attention to documenting and archiving original research and scholarship data. Several codes of good practice recommend a minimum period of 10 years, longer in the case of especially significant or sensitive data. National or regional discipline-based archives should be considered where there are practical or other problems in storing data at the institution where the research was conducted.

# Data sharing – why?



Nature:  
Vol 461, 10 September 2009

[doi:10.1038/461145a](https://doi.org/10.1038/461145a)

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## Data Sharing

Sharing data is good. But sharing your own data? That can get complicated. As two research communities who held meetings in May on the issue report their proposals to promote data sharing in biology, a special issue of *Nature* examines the cultural and technical hurdles that can get in the way of good intentions.

- **EDITORIAL**
- **FEATURE**
- **OPINION**
- **ELSEWHERE IN NATURE**

**Editorial**

**Data's shameful neglect**  
Research cannot flourish if data are not preserved and made accessible. All concerned must act accordingly.  
9 September 2009

**Feature**

**Data sharing: Empty archives**  
Most researchers agree that open access to data is the scientific ideal, so what is stopping it happening? Bryn Nelson investigates why many researchers choose not to share.  
9 September 2009

**Opinion**

**Prepublication data sharing**  
Rapid release of prepublication data has served the field of genomics well. Attendees at a workshop in Toronto recommend extending the practice to other biological data sets.  
9 September 2009

# Data sharing – why?



## Current Biology

Volume 24, Issue 1, 6 January 2014, Pages 94–97

Report

### The Availability of Research Data Declines Rapidly with Age

Timothy H. Vines<sup>1,2</sup>, Arianne Y.K. Albert<sup>3</sup>, Rose L. Andrew<sup>1</sup>, Florence Débarre<sup>1</sup>, Michelle T. Franklin<sup>1,5</sup>, Kimberly J. Gilbert<sup>1</sup>, Jean-Sébastien Moore<sup>1,6</sup>, Sébastien Ren Rennison<sup>1</sup>

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 (doi:10.5061/dryad.q3g37;jsessionid=61E1B665BA632BC2C7C86D6D94AF3582)

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Table 1. Breakdown of Data Availability by Year of Publication

Year	No Working E-Mail	No Response to E-Mail	Response Did Not Give Status of Data	Data Lost	Data Exist, Unwilling to Share	Data Received	Data Extant (Unwilling to Share + Received)	Number of Papers
1991	9 (35%)	9 (35%)	2 (8%)	4 (15%)	1 (4%)	1 (4%)	2 (8%)	26
1993	14 (39%)	11 (31%)	3 (8%)	7 (19%)	0 (0%)	1 (3%)	1 (3%)	36
1995	11 (31%)	9 (26%)	0 (0%)	7 (20%)	2 (6%)	6 (17%)	8 (23%)	35
1997	11 (37%)	9 (30%)	1 (3%)	2 (7%)	3 (10%)	4 (13%)	7 (23%)	30
1999	19 (48%)	13 (32%)	1 (2%)	1 (2%)	0 (0%)	6 (15%)	6 (15%)	40
2001	13 (30%)	15 (35%)	3 (7%)	4 (9%)	0 (0%)	8 (19%)	8 (19%)	43
2003	9 (20%)	20 (43%)	4 (9%)	2 (4%)	0 (0%)	11 (24%)	11 (24%)	46
2005	11 (24%)	14 (31%)	6 (13%)	1 (2%)	0 (0%)	13 (29%)	13 (29%)	45
2007	12 (18%)	31 (47%)	2 (3%)	4 (6%)	1 (2%)	16 (24%)	17 (26%)	66
2009	9 (13%)	34 (49%)	3 (4%)	5 (7%)	6 (9%)	12 (17%)	18 (26%)	69
2011	13 (16%)	29 (36%)	8 (10%)	0 (0%)	7 (9%)	23 (29%)	30 (38%)	80
Totals	131 (25%)	194 (38%)	33 (6%)	37 (7%)	20 (4%)	101 (19%)	121 (23%)	516

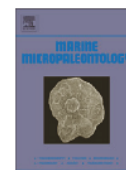
Data are displayed as n (%); the percentages are calculated by rows.



Contents lists available at ScienceDirect

Marine Micropaleontology

journal homepage: [www.elsevier.com/locate/marmicro](http://www.elsevier.com/locate/marmicro)



## Paleoceanographic evolution of North Pacific surface water off Japan during the past 150,000 years

Itaru Koizumi<sup>a,\*</sup>, Hirofumi Yamamoto<sup>b</sup>

<sup>a</sup> Hokkaido University, Japan

<sup>b</sup> Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Japan

### ARTICLE INFO

#### Article history:

Received 19 November 2009

Received in revised form 24 January 2010

Accepted 28 January 2010

#### Keywords:

$Td'$  (the ratio of warm- and cold-water diatoms)-derived annual SST ( $^{\circ}\text{C}$ )

Wavelet analysis

Last interglacial period

Kuroshio–Kuroshio Extension

Oyashio

Tsugaru Warm Current

Earth's orbital parameters

El Niño–Southern Oscillation (ENSO)

### ABSTRACT

Hydrographic variability in the Mixed Water Region of the Northwest Pacific Ocean at latitudes  $35^{\circ}$ – $40^{\circ}\text{N}$ , between the Kuroshio Extension and Oyashio Front, causes complex upwelling, leading to large primary productivity and thus great fishery resources. We reconstructed the periodicity of the variability in North Pacific Intermediate Water upwelling and surface ocean hydrography based on the high-resolution analysis of diatom assemblages in seven cores, representing the last 150,000 years. We derived annual sea surface temperatures (SSTs) through a diatom-based proxy ( $Td'$ ). The  $Td'$ -derived annual SSTs ( $^{\circ}\text{C}$ ) are controlled by orbital forcing, and show a reversed saw-tooth in southern cores, in contrast to a normal saw-tooth pattern in the northern cores. Oceanic diatom abundances along the northern margin of the Mixed Water Region are twice times as high as beneath the axis of the Kuroshio Extension, and fluctuated in a revised saw-tooth pattern with higher overall abundances interglacials. After the last deglaciation, annual SSTs declined markedly during Heinrich and Bond events in the northern North Atlantic, when ice-rafted detritus transported by icebergs was abundant. Wavelet analyses of the record of oceanic diatom abundances show significant variability at 2.0-kyr, 2 to 5.6-kyr and 3.2 to 9.6-kyr periods. Wavelet analyses of the annual SST records show significant periodicity at 1.4 to 2.6-kyr, 3.3 to 4.0-kyr, 7.2 to 12.8-kyr cycles.

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## Appendix A. Supplementary data

Supplementary data associated with this article can be found, in the online version, at [doi:10.1016/j.marmicro.2010.01.003](https://doi.org/10.1016/j.marmicro.2010.01.003).

## Access Online Article

### **Paleoceanographic evolution of North Pacific surface water off Japan during the past 150,000years** Original Research Article

*Marine Micropaleontology, Volume 74, Issues 3–4, April 2010, Pages 108-118*  
Itaru Koizumi, Hirofumi Yamamoto [View Abstract](#)

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# Data bases/archives - NOAA



PALEOCEANOGRAPHY, VOL. 21, PA3015, doi:10.1029/2005PA001243



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Home > Data Access > Paleoclimatology Data

## Subcentennial-scale climatic and hydrologic variability in the Gulf of Mexico during the early Holocene

Jenna M. LoDico,<sup>1</sup> Benjamin P. Flower,<sup>1</sup> and Terrence M. Quinn<sup>1</sup>

Received 11 November 2005; revised 20 April 2006; accepted 3 May 2006; published 29 September 2006.

[1] An early Holocene record from the Gulf of Mexico (GOM) reveals climatic and the interval from 10.5 to 7 thousand calendar years before present from paired anal foraminiferal calcite. The sea surface temperature record based on foraminiferal Mg and an overall  $\sim 1.5^{\circ}\text{C}$  warming that appears to be similar to the September–March  $\delta^{18}\text{O}$  of seawater in the GOM ( $\delta^{18}\text{O}_{\text{GOM}}$ ) record contains six oscillations, including a be associated with the “8.2 ka climate event” or a broader climate anomaly. Fauna GOM cores exhibit similar changes, suggesting subcentennial-scale variability in t waters into the GOM. Overall, our results provide evidence that the subtropics were centennial-scale climatic and hydrologic variability during the early Holocene.

**Citation:** LoDico, J. M., B. P. Flower, and T. M. Quinn (2006), Subcentennial-scale climatic and hydrologic variability in the Gulf of Mexico during the early Holocene, *Paleoceanography*, 21, PA3015, doi:10.1029/2005PA001243.

<sup>1</sup>Auxiliary materials are available at [www.ncdc.noaa.gov/paleo/paleo.html](http://www.ncdc.noaa.gov/paleo/paleo.html).

### Quick Links

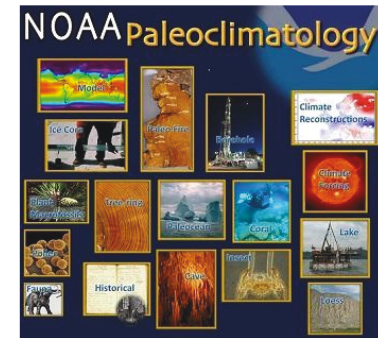
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## Paleoclimatology Data

Paleoclimatology data are derived from natural sources such as tree rings, ice cores, corals, and ocean and lake sediments. These proxy climate data extend the archive of weather and climate information hundreds to millions of years. The data include geophysical or biological measurement time series and some reconstructed climate variables such as temperature and precipitation.

NCDC provides the paleoclimatology data and information scientists need to understand natural climate variability and future climate change. We also operate the World Data Center for Paleoclimatology, which archives and distributes data contributed by scientists around the world.

- **Paleoclimatology Datasets**  
Access paleoclimatology datasets by proxy data type
- **Paleoclimatology Data Search**  
Search all paleoclimatology datasets and analyses available from NCDC and the World Data Center for Paleoclimatology
- **Paleoclimatology Projects**  
Access paleoclimatology research datasets and research projects
- **Paleoclimatology Perspectives**  
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Paleoclimatology data are derived from a wide variety of natural sources such as tree rings, ice cores, corals, and ocean and lake sediments.

# Data base/archive - NOAA



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### LoDico et al. 2006 Gulf of Mexico MD02-2550 Early Holocene Mg/Ca and d18O Data and SST Reconstruction

ORIGINATOR (CONTRIBUTORS): LoDico, J.M.; Flower, B.; Quinn, T.M.

ONLINE RESOURCE (When Citing Data): [http://hurricane.ncdc.noaa.gov/pls/paleox/f?p=519:1:::P1\\_STUDY\\_ID:6376](http://hurricane.ncdc.noaa.gov/pls/paleox/f?p=519:1:::P1_STUDY_ID:6376)

DOWNLOAD DATA:

<a href="#">Original Data and Full Metadata</a>	<a href="#">lodico2006.txt</a>
---	--------------------------------

USE CONSTRAINTS: Please cite original publication, online resource and date accessed when using this data. If there is no publication information, please cite investigator, title, online resource and date accessed.

DISTRIBUTOR: National Climatic Data Center, NESDIS, NOAA, U.S. Department of Commerce

RESOURCE DESCRIPTION (data set id): noaa-recon-6376

KEYWORDS: earth science>paleoclimatology>reconstructions

PARAMETERS:

---

SUMMARY/ABSTRACT: Records of past temperature, precipitation, and other climate variables derived from paleoclimatology proxies. Parameter keywords describe what was measured in this data set. Additional summary information can be found in the abstracts of papers listed in the data set citations.

More Information: [Reconstructions](#)

---

CONTACT INFORMATION:

DOC/NOAA/NESDIS/NCDC (National Climatic Data Center, NESDIS, NOAA, U.S. Department of Commerce)  
 325 Broadway, E/CC23  
 Boulder, CO 80305  
 USA  
<http://www.ncdc.noaa.gov/paleo/>  
 E-mail: [bruce.a.bauer@noaa.gov](mailto:bruce.a.bauer@noaa.gov)  
 E-mail: [paleo@noaa.gov](mailto:paleo@noaa.gov)  
 Phone: 303-497-6280 Fax: 303-497-6513

searchable in www?

DATA:

- Column 1: Depth (cm)
- Column 2: thousand calendar years (B.P.)
- Column 3: delta 13C G. ruber (white; 250-350 microns) (per mil VPDB)
- Column 4: delta 18O G. ruber (white; 250-350 microns) (per mil VPDB)
- Column 5: Mg/Ca (mmol/mol)
- Column 6: Sea Surface Temperature (=C) calculated from Mg/Ca as follows: Mg/Ca =  $0.449 \exp(0.090 * SST)$  (Anand et al., 2003)
- Column 7: delta 18O seawater (per mil VSMOW) calculated as follows: SST =  $14.9 - 4.8 * (d180c - d180sw)$  (Bemis et al., 1998)
- Column 8: thousand calendar years (B.P.) for d18O Gulf of Mexico (GOM) record
- Column 9: delta 18O seawater Gulf of Mexico (GOM) (per mil VSMOW) corrected for ice volume (Fairbanks, 1989; Bard et al., 1996) using 0.0034 per 10 m (Adkins and Schrag, 2001).

depth	Cal kyr.	d13C	d18O	Mg/Ca	SST	d180sw	Cal kyr.	d180GOM
190	7.02	0.81	-1.69	4.79	26.30	0.95	7.000	0.75
190.5	7.05	0.93	-1.57	4.84	26.41	1.10	7.025	0.87
191	7.07	0.81	-1.41	4.90	26.56	1.29	7.050	1.01
191.5	7.09	1.07	-1.39	4.80	26.32	1.26	7.075	1.17
192	7.11	1.03	-1.60	5.35	27.54	1.30	7.100	1.17
192.5	7.13	0.85	-1.66	4.81	26.35	0.99	7.125	0.97
193	7.16	0.94	-2.01	5.16	27.13	0.81	7.150	0.76
193.5	7.18	0.62	-1.81	4.87	26.48	0.87	7.175	0.75
194	7.20	0.84	-1.58	4.70	26.09	1.02	7.200	0.87
194.5	7.22	0.93	-1.74	4.84	26.42	0.93	7.225	0.84
195	7.25	0.76	-1.69	4.91	26.59	1.01	7.250	0.86
195.5	7.27	1.02	-1.81	4.75	26.21	0.82	7.275	0.71
196.5	7.31	0.79	-1.90	4.84	26.41	0.77	7.300	0.67
197	7.33	0.95	-1.45	5.03	26.84	1.31	7.325	1.02
197.5	7.36	0.99	-1.76	5.02	26.82	1.00	7.350	0.99
198	7.38	0.90	-1.61	5.28	27.39	1.26	7.375	1.04
198.5	7.40	0.91	-1.88	5.08	26.95	0.90	7.400	0.83
199	7.42	0.90	-1.79	4.78	26.28	0.85	7.425	0.87
199.5	7.45	0.66	-1.52	5.66	28.16	1.51	7.450	1.25
200	7.47	1.07	-1.71	5.07	26.92	1.07	7.475	0.98
200.5	7.49	0.51	-1.78	5.25	27.32	1.08	7.500	1.21
201	7.51	0.45	-1.35	5.46	27.75	1.59	7.525	1.16

# Data base



## Oceanography

**British Oceanographic Data Centre**  
NATURAL ENVIRONMENT RESEARCH COUNCIL

Welcome to the **British Oceanographic Data Centre**  
a national facility for preserving and distributing marine data

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We also host various data portals and project web sites		
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GEOGRACES <a href="#">[more]</a>	GLOSS <a href="#">[more]</a>	UKMOS <a href="#">[more]</a>
RAPID MOC <a href="#">[more]</a>	36 North <a href="#">[more]</a>	OceanNET <a href="#">[more]</a>

## Snow & Ice

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Arctic sea ice reached its maximum extent for the year on March 21 at 14.91 million square kilometers.

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2014-07-02  
Vacancy OBIS Data Manager  
2014-06-26  
New data loaded, 26 June 2014  
2014-06-09  
First OBIS Nodes Technical Training Course took place at the Project Office in Oostende, 5-9 May 2014

## Ocean Drilling - Geology

**IODP-USIO** International Ocean Discovery Program  
UNITED STATES IMPLEMENTING ORGANIZATION


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**Ocean Drilling Data Data Overview**

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ANALYSIS	Leg	Total	210	209	208	207	206	205	204	203	202
Site/Hole Summary (meters recovered)	222431	828	357	3589	3122	515	281	3066	28	7081	2
Hole/Core Summary (cores)	36365	115	218	426	504	123	70	526	23	800	
Core/Section Summary (sections)	192669	706	394	2987	2714	450	268	2685	32	5799	2
Corelog (samples)	2395518	7883	3745	50716	38636	4577	3001	23654	372	99949	22
GRA Bulk Density (sections)	135648	571	0	2558	2268	405	220	1966	27	5011	1
Magnetic Susceptibility (sections)	135819	571	372	2575	2270	405	233	1929	27	5017	1
Natural Gamma Radiation (sections)	72924	571	372	2404	2240	405	230	0	27	4370	1
P-Wave Vel (Whole Core) (sections)	58430	0	0	1208	14	37	0	35	0	2071	1
P-Wave Vel (Split Core) (samples)	64574	580	149	638	1887	366	100	99	21	1002	
Moisture Density (samples)	92716	586	145	613	1225	338	309	1399	20	1837	
Thermcon (samples)	37019	119	239	195	13	93	78	422	14	530	
Shear Strength (samples)	26451	0	0	0	2	0	0	224	0	0	
Color Reflectance (sections)	63214	83	0	2872	2604	162	254	431	27	5672	2
Point Susceptibility - MS2F (sections)	2853	590	0	178	42	116	233	121	27	368	
Downhole Temp. - Adara (samples)	1219	0	0	0	0	0	0	0	0	78	
Splicer (tie points)	4372	0	0	349	157	0	0	0	0	411	
Tensor (cores)	2534	1	0	293	3	17	0	0	0	429	
Cryomag (sections)	106858	600	336	2571	1805	361	254	0	26	4793	
Paleo Investigation (samples)	99637	49	0	0	1822	0	0	481	0	0	
Range Table (taxa)	1043001	2591	0	0	5137	0	0	1779	0	0	
Age Profile (datum list)	4573	0	0	0	0	0	0	0	0	0	
Depth-Age Model	8178	0	0	0	0	0	0	0	0	0	





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Serrano X, Baums IB, O'Reilly K, Smith TB, Jones RJ, Shearer TL, Nunes FLD, Baker AC (2014) Data from: Geographic differences in vertical connectivity in the Caribbean coral *Montastraea cavernosa* despite high levels of horizontal connectivity at shallow depths. Dryad Digital Repository. doi:10.5061/dryad.47dk8

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	9	577	15	76	30	23	27	39	30	39	31	43	48	43	45
	UK shallow	UK mid	UK deep	LK shallow	LK mid	LK deep	DT shallow	DT mid	DT deep	BDA shallow	BDA mid	BDA deep			
	Sample	Population	Site	Latitude	Longitude	Locus 4_1	Locus 4_2	Locus 18_1	Locus 18_2	Locus 29_1	Locus 29_2	Locus 41_1	Locus 41_2	Locus 46_1	Locus 46_2
1	KL791	UK shallow	UK1	24.9465	-80.50207	156	197	230	230	171	171	392	404	133	139
2	KL799	UK shallow	UK1	24.9465	-80.50207	153	171	233	239	155	159	408	412	133	133
3	KL801	UK shallow	UK1	24.9465	-80.50207	147	180	221	230	171	175	392	404	133	139
4	KL804	UK shallow	UK1	24.9465	-80.50207	171	180	221	224	155	171	396	404	133	133
5	KL844	UK shallow	UK1	24.9465	-80.50207	155	197	230	230	171	171	392	392	133	139
6	KL860	UK shallow	UK1	24.9465	-80.50207	147	162	233	242	171	175	0	0	133	139
7	KL901	UK shallow	UK2	25.0136833	-80.41387	147	147	227	236	175	175	404	408	133	133
8	KL947	UK shallow	UK2	25.0136833	-80.41387	147	162	218	221	167	171	392	404	139	139
9	KL950	UK shallow	UK2	25.0136833	-80.41387	147	171	230	236	155	167	404	404	133	133
10	KL952	UK shallow	UK2	25.0136833	-80.41387	159	180	227	230	171	171	408	408	133	145
11	KL955	UK shallow	UK2	25.0136833	-80.41387	147	153	224	227	155	183	404	404	133	139
12	KL964	UK shallow	UK2	25.0136833	-80.41387	159	177	227	230	171	171	408	408	133	145
13	KL1006	UK shallow	UK3	24.9511167	-80.4614	168	174	230	236	159	171	392	404	133	139
14	KL1007	UK shallow	UK3	24.9511167	-80.4614	147	159	221	227	167	171	412	412	133	139
15	KL1013	UK shallow	UK3	24.9511167	-80.4614	147	174	221	224	155	175	392	412	139	139
16	KL927	UK shallow	UK3	24.9511167	-80.4614	162	171	230	233	159	171	392	404	133	133
17	KL934	UK shallow	UK3	24.9511167	-80.4614	147	171	233	239	167	175	392	392	133	133
18	KL936	UK shallow	UK3	24.9511167	-80.4614	144	147	221	233	155	175	400	408	0	0
19	KL939	UK shallow	UK3	24.9511167	-80.4614	183	183	224	230	167	171	408	408	133	133
20	KL940	UK shallow	UK3	24.9511167	-80.4614	143	147	230	242	159	171	408	420	133	133
21	KL941	UK shallow	UK3	24.9511167	-80.4614	162	177	221	230	167	175	396	408	133	145
22	KL942	UK shallow	UK3	24.9511167	-80.4614	147	165	236	245	155	175	396	408	133	133
23	KL998	UK shallow	UK3	24.9511167	-80.4614	156	192	227	230	171	179	400	412	133	139
24	KL902	UK shallow	UK4	25.0094333	-80.45792	165	189	227	239	171	175	396	408	133	139
25	KL904	UK shallow	UK4	25.0094333	-80.45792	147	159	224	233	171	171	392	404	133	139
26	KL906	UK shallow	UK4	25.0094333	-80.45792	147	201	227	227	159	175	392	408	139	139

Data citation with doi  
unsearchable in www



[doi:10.1016/S0098-3004\(02\)00039-0](https://doi.org/10.1016/S0098-3004(02)00039-0)









## Computers & Geosciences

Volume 28, Issue 10, December 2002, Pages 1201–1210

Shareware and freeware in the Geosciences II. A special issue in honour of John Butler



## PANGAEA—an information system for environmental sciences

Michael Diepenbroek<sup>a</sup>,  , Hannes Grobe<sup>b</sup>, , Manfred Reinke<sup>b</sup>, , Uwe Schindler<sup>c</sup>, , Reiner Schlitzer<sup>b</sup>, , Rainer Sieger<sup>b</sup>, , Gerold Wefer<sup>a</sup>, 

<sup>a</sup> Center for Marine Environmental Sciences (MARUM), University Bremen, Bremen 28334, Germany

<sup>b</sup> Alfred Wegener Institute for Polar and Marine Research, Bremerhaven 27515, Germany

<sup>c</sup> Physics Department, University of Erlangen-Nuremberg, Erlangen 91058, Germany

[http://dx.doi.org/10.1016/S0098-3004\(02\)00039-0](http://dx.doi.org/10.1016/S0098-3004(02)00039-0), How to Cite or Link Using DOI

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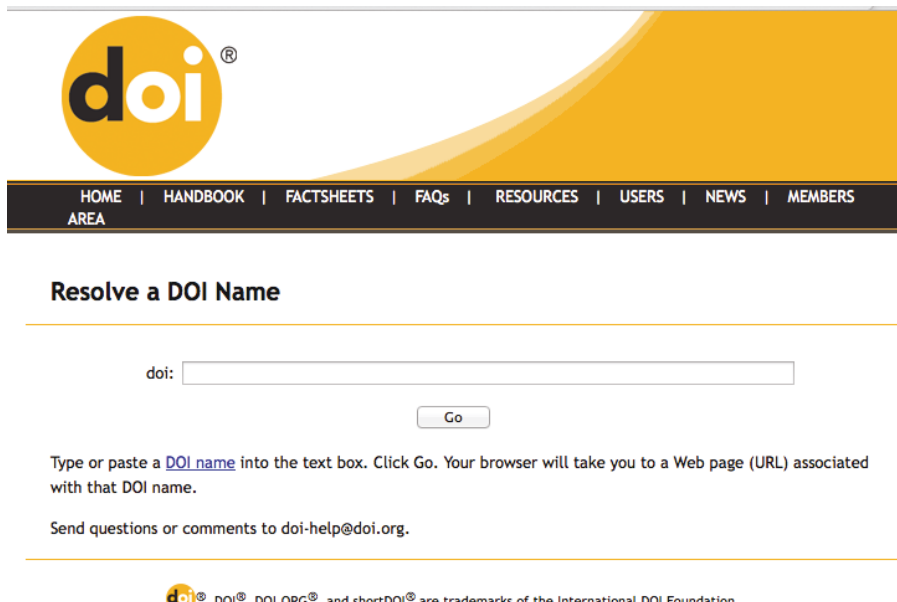
# Digital Object Identifier - DOI

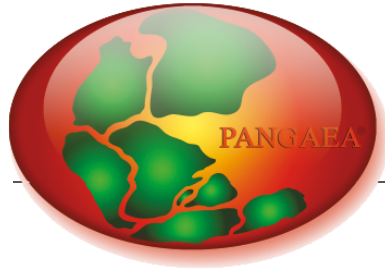


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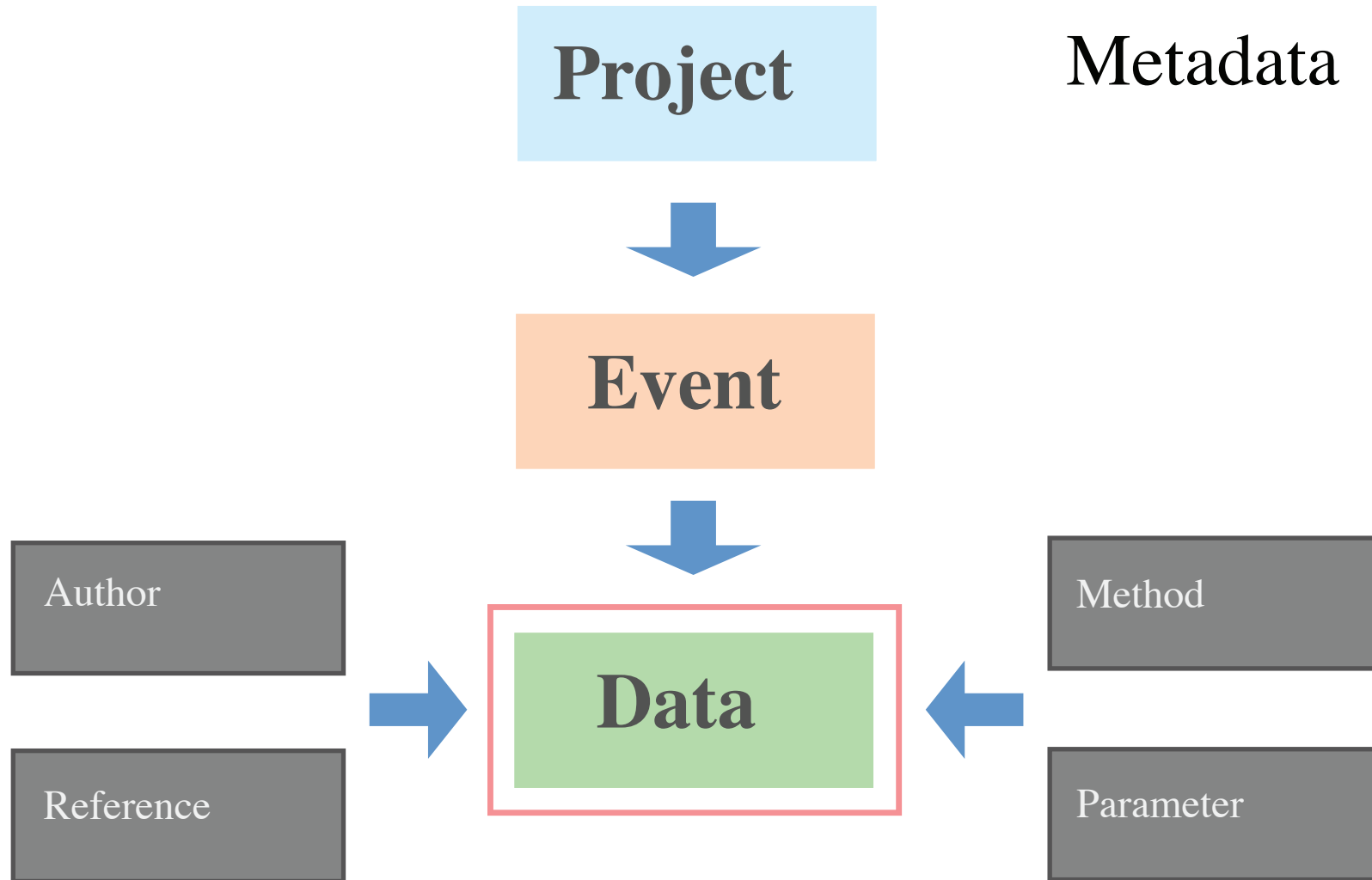


# PANGAEA hosts

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*Both institutions have committed to long-term operate PANGAEA*



# Data model

*when ?*



date/time or age

*what ?*



parameter [unit]

*how ?*



method

123.4 text



*where ?*



latitude  
longitude

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



*who ?*



investigator  
reference



## Data Description

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**Citation:** Koizumi, I; Yamamoto, H (2010): Vertical distribution of diatoms in North Pacific sediments.

doi:10.1594/PANGAEA.776366,

Supplement to: Koizumi, Itaru; Yamamoto, Hirofumi (2010): Paleoclimatological evolution of North Pacific surface water off Japan during the past 150,000 years. *Marine Micropaleontology*, **74(3-4)**, 108-118,

doi:10.1016/j.marmicro.2010.01.003

### Abstract:

Hydrographic variability in the Mixed Water Region of the Northwest Pacific Ocean at latitudes 35°-40°N, between the Kuroshio Extension and Oyashio Front, causes complex upwelling, leading to large primary productivity and thus great fishery resources. We reconstructed the periodicity of the variability in North Pacific Intermediate Water upwelling and surface ocean hydrography based on the high-resolution analysis of diatom assemblages in seven cores, representing the last 150,000 years. We derived annual sea surface temperatures (SSTs) through a diatom-based proxy (Td). The Td'-derived annual SSTs (°C) are controlled by orbital forcing, and show a reversed saw-tooth in southern cores, in contrast to a normal saw-tooth pattern in the northern cores. Oceanic diatom abundances along the northern margin of the Mixed Water Region are twice times as high as beneath the axis of the Kuroshio Extension, and fluctuated in a revised saw-tooth pattern with higher overall abundances interglacials. After the last deglaciation, annual SSTs declined markedly during Heinrich and Bond events in the northern North Atlantic, when ice-rafted detritus transported by icebergs was abundant. Wavelet analyses of the record of oceanic diatom abundances show significant variability at 2.0-kyr, 2 to 5.6-kyr and 3.2 to 9.6-kyr periods. Wavelet analyses of the annual SST records show significant periodicity at 1.4 to 2.6-kyr, 3.3 to 4.0-kyr, 7.2 to 12.8-kyr cycles.

**Project(s):** [Ocean Drilling Program \(ODP\)](#) 🔍

**Coverage:** *Median Latitude:* 38.477916 \* *Median Longitude:* 146.055987 \* *South-bound Latitude:* 36.000000 \* *West-bound Longitude:* 141.780000 \* *North-bound Latitude:* 40.560000 \* *East-bound Longitude:* 152.000000

*Minimum Age:* 0.000 ka BP \* *Maximum Age:* 152.580 ka BP

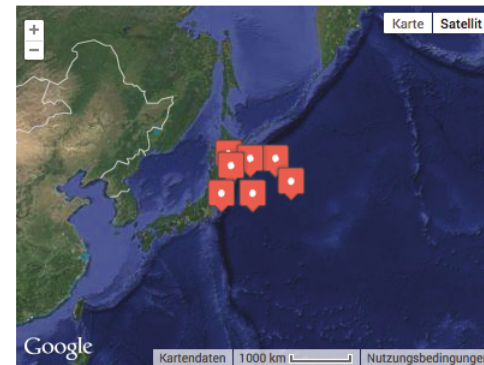
**Event(s):** **186-1150A** 🔍 \* *Latitude:* 39.181910 \* *Longitude:* 143.331910 \* *Date/Time Start:* 1999-06-22T18:30:00 \* *Date/Time End:* 1999-06-26T22:15:00 \* *Elevation:* -2680.8 m \* *Recovery:* 566.40 m \* *Penetration:* 722.60 m \* *Location:* North Pacific Ocean 🔍 \* *Campaign:* [Leg186](#) 🔍 \* *Basis:* [Joides Resolution](#) 🔍 \* *Device:* [Drilling](#) 🔍 \* *Comment:* 76 cores; 722.6 m cored; 0 m drilled; 78.4 % recovery

**MD01-2421** (MD012421) 🔍 \* *Latitude:* 36.023500 \* *Longitude:* 141.780000 \* *Date/Time:* 2001-06-16T04:33:00 \* *Elevation:* -2286.0 m \* *Recovery:* 45.84 m \* *Location:* [Japan Trench](#) 🔍 \* *Campaign:* MD122 (IMAGES VII - WEPAMA) 🔍 \* *Basis:* [Marion Dufresne](#) 🔍 \* *Device:* [Giant piston corer](#) 🔍

**MR00-05-2PC** 🔍 \* *Latitude:* 40.000000 \* *Longitude:* 146.000000 \* *Elevation:* -5177.0 m \* *Location:* [Northwest Pacific](#) 🔍 \* *Device:* [Piston corer](#) 🔍

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**Size:** 7 datasets



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## Datasets listed in this Collection

1. **Koizumi, I; Yamamoto, H (2010):** (Table A1) Diatom abundance in sediment core MD01-2421. doi:10.1594/PANGAEA.775547
2. **Koizumi, I; Yamamoto, H (2010):** (Table A2) Diatom abundance in sediment core MR02-03-2. doi:10.1594/PANGAEA.776118



ELSEVIER

## Marine Micropaleontology

Volume 74, Issues 3–4, April 2010, Pages 108–118



### Paleoceanographic evolution of North Pacific surface water off Japan during the past 150,000 years

Itaru Koizumi<sup>a</sup>,  , Hirofumi Yamamoto<sup>b</sup>

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DOI: 10.1016/j.marmicro.2010.01.003

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#### Abstract

Hydrographic variability in the Mixed Water Region of the Northwest Pacific Ocean at latitudes 35°–40°N, between the Kuroshio Extension and Oyashio Front, causes complex upwelling, leading to large primary productivity and thus great fishery resources. We reconstructed the periodicity of the variability in North Pacific Intermediate Water upwelling and surface ocean hydrography based on the high-resolution analysis of diatom assemblages in seven cores, representing the last 150,000 years. We derived annual sea surface temperatures (SSTs) through a diatom-based proxy ( $T_d$ ). The  $T_d$ -derived annual SSTs (°C) are controlled by orbital forcing, and show a reversed saw-tooth in southern cores, in contrast to a normal saw-tooth pattern in the northern cores. Oceanic diatom abundances along the northern margin of the Mixed Water Region are twice times as high as beneath the axis of the Kuroshio Extension, and fluctuated in a revised saw-tooth pattern with higher overall abundances interglacials. After the last deglaciation, annual SSTs declined markedly during Heinrich and Bond events in the northern North Atlantic, when ice-rafted detritus transported by icebergs was abundant. Wavelet analyses of the record of oceanic diatom abundances show significant variability at 2.0-kyr, 2 to 5.6-kyr and 3.2 to 9.6-kyr periods. Wavelet analyses of the annual SST records show significant periodicity at 1.4 to 2.6-kyr, 3.3 to 4.0-kyr, 7.2 to 12.8-kyr cycles.

Keywords

#### Recommended articles

##### Oceanographic variations over the last 150,000yr ...

2011, Journal of Asian Earth Sciences [more](#)

##### Rapid warming and ostracods mass extinction at t...

2010, Marine Micropaleontology [more](#)

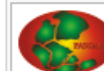
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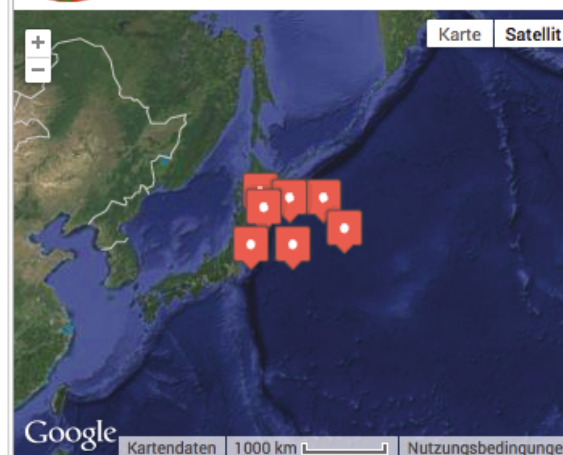
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#### PANGAEA® – Related Data

Vertical distribution of diatoms in North Pacific sediments





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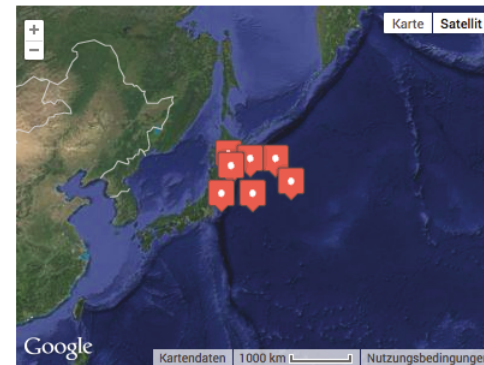
## Data Description

Show Map Google Earth RIS Bibtex

**Citation:** Koizumi, I; Yamamoto, H (2010): Vertical distribution of diatoms in North Pacific sediments. doi:10.1594/PANGAEA.776366,

**Supplement to: Koizumi, Itaru; Yamamoto, Hirofumi (2010):** Paleoclimatological evolution of North Pacific surface water off Japan during the past 150,000 years. *Marine Micropaleontology*, **74(3-4)**, 108-118, doi:10.1016/j.marmicro.2010.01.003

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**MR00-05-2PC** 🔍 \* *Latitude:* 40.000000 \* *Longitude:* 146.000000 \* *Elevation:* -5177.0 m \* *Location:* [Northwest Pacific](#) 🔍 \* *Device:* [Piston corer](#) 🔍

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**Size:** 7 datasets

## Download Data

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## Datasets listed in this Collection

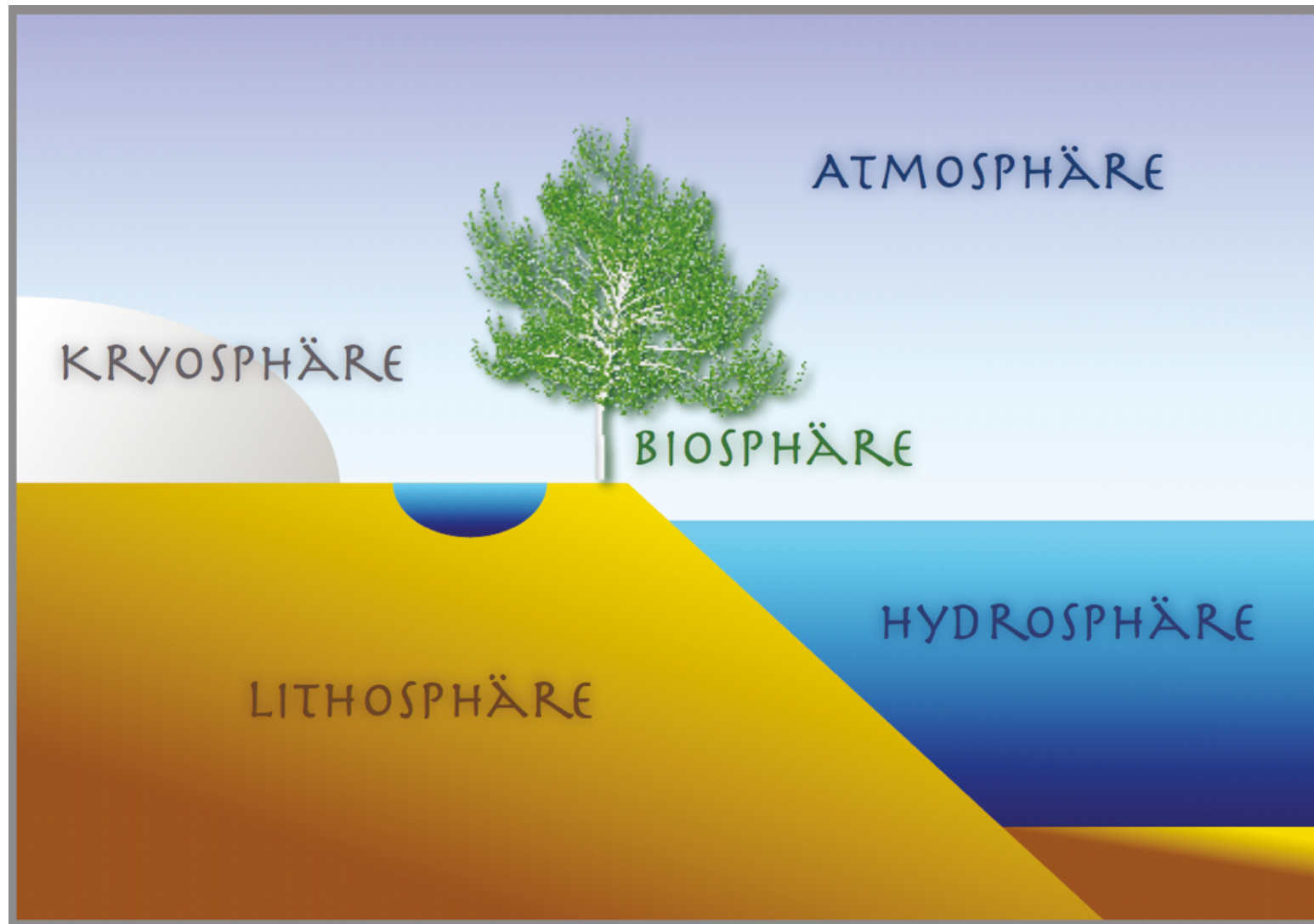
1. **Koizumi, I; Yamamoto, H (2010):** (Table A1) Diatom abundance in sediment core MD01-2421. doi:10.1594/PANGAEA.775547
2. **Koizumi, I; Yamamoto, H (2010):** (Table A2) Diatom abundance in sediment core MR02-03-2. doi:10.1594/PANGAEA.776118





What kind of data can I found -  
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# Data variety



# Major Projects

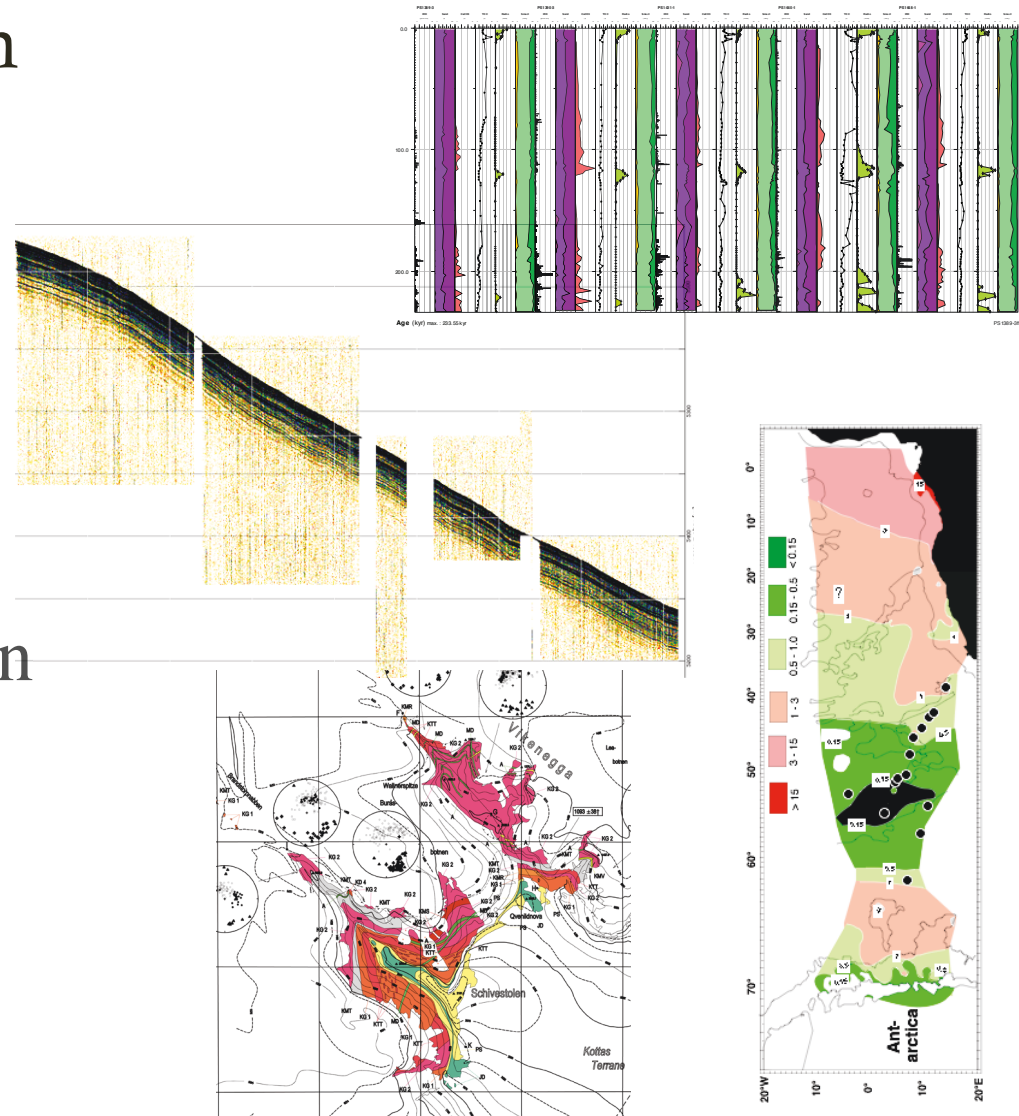


<u>International</u>	<u>EU</u>	<u>National</u>
Radiation BSRN	Pollen POLLARC	Marine environment MUM
JGOFS	CarboOcean	Tree rings SIRRO
Oceanography WOCF	Ocean acidification E-Oceans	HISTRA
Ice cores ICECORE	HERMES/Hermione	Data archaeology ARCOD
Marine geology IODP	EPOCA	DFG/BMBF

# Examples

## Geoscientific Research

- ❖ Sediment cores
- ❖ Seismic profile
- ❖ Faunal distribution
- ❖ Geological map



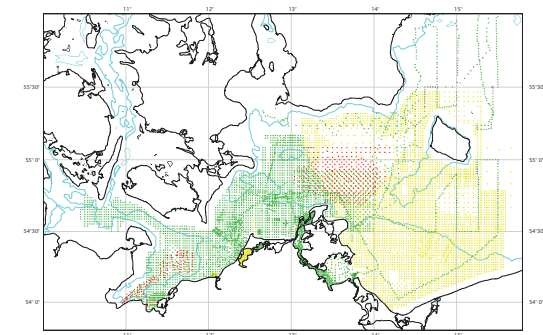
# Examples

## Environmental Research

❖ Images



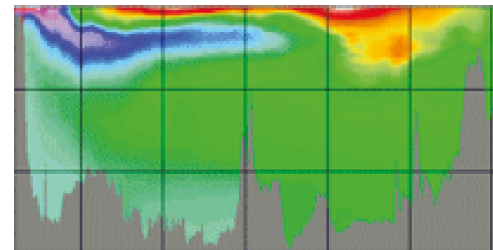
❖ Distributed samples



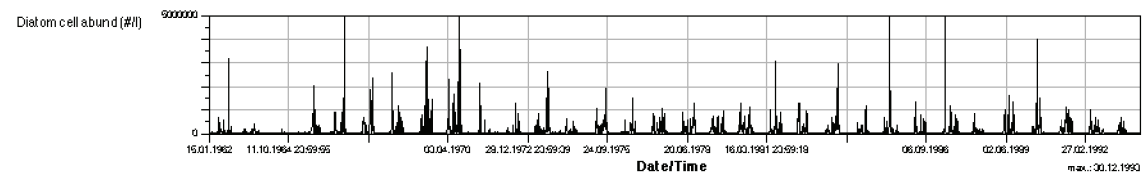
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Source: Baltic Sea Research Institute, Warnemünde.

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— Grid size class K2DP 1  
— Grid size class K2DND2  
— Grid size class K2DND1  
— Grid size class K2DP 2  
— Grid size class K2DP 3

❖ Hydrographic profiles

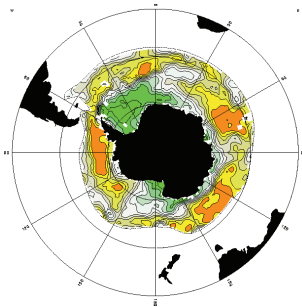


❖ Times Series

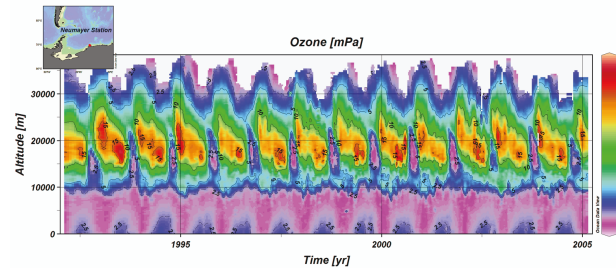


# Examples

## Antarctic Research



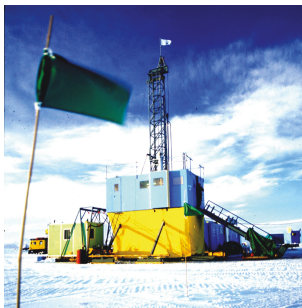
Southern Ocean Atlas



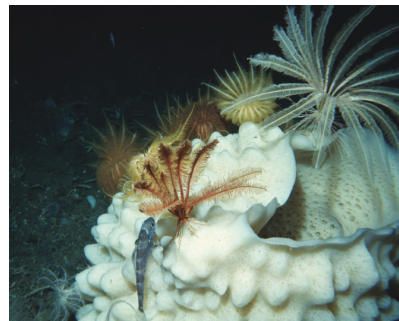
Ozone profiles



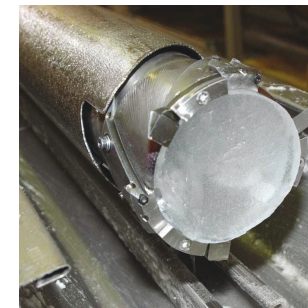
Sediments and Rocks



CRP  
Cape Roberts Project



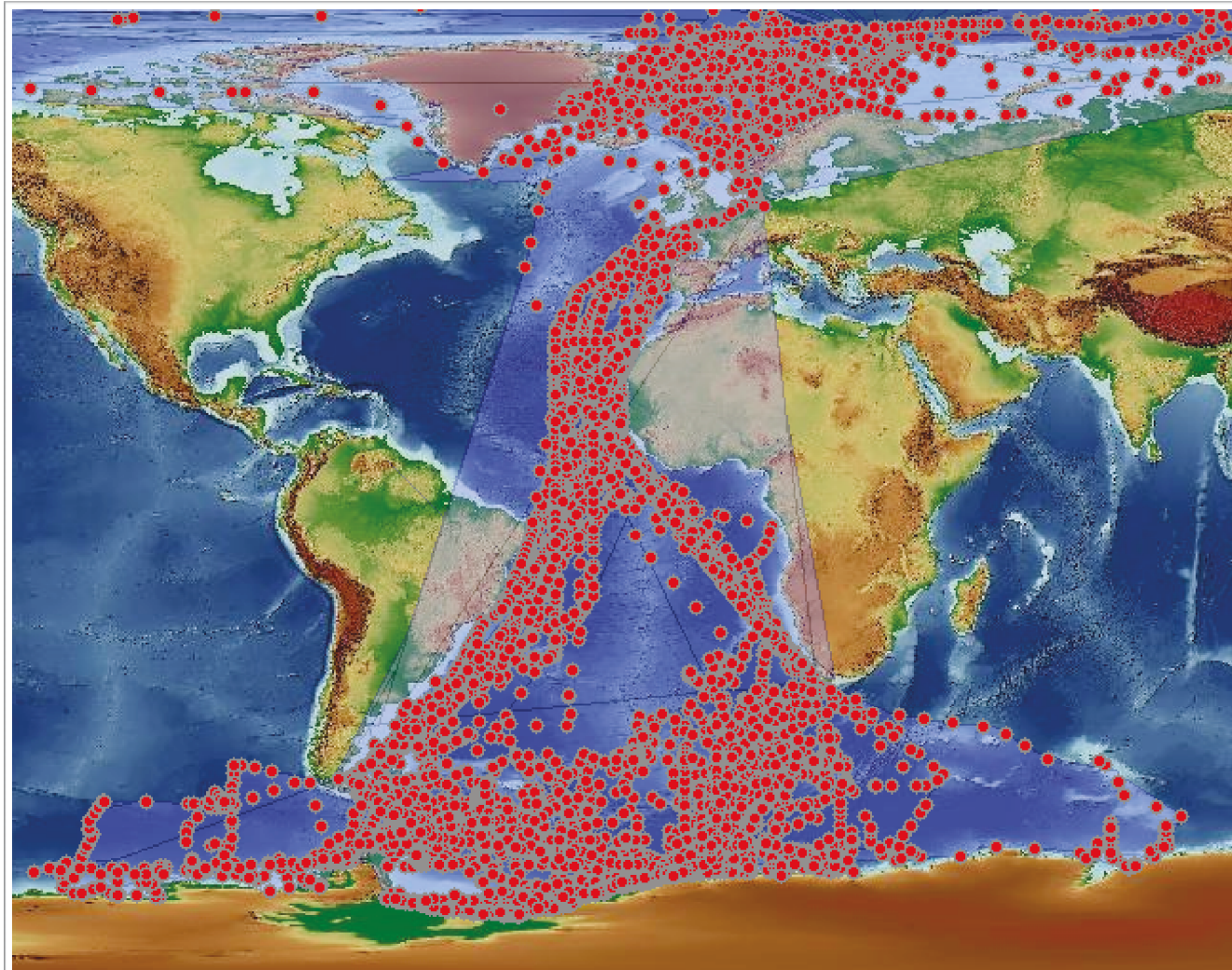
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Underwater Imaging



EPICA  
European Project for  
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## Meteorological observations



[doi:10.1594/PANGAEA.269619](https://doi.org/10.1594/PANGAEA.269619)



# Data access



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1. **Schmiedl, G; Pfeilsticker, M; Hemleben, C et al. (2004):** Stable oxygen and carbon isotope composition of benthic foraminifera from the western Mediterranean Sea

*Supplement to:* **Schmiedl, G; Pfeilsticker, M; Hemleben, C et al. (2004):** Environmental and biological effects on the stable isotope composition of recent deep-sea benthic foraminifera from the western Mediterranean Sea. *Marine Micropaleontology*

*Size:* 5 datasets

doi:10.1594/PANGAEA.728234 - Score: 100% - Similar datasets

2. **Mackensen, A; Licari, L (2004):** Standing stocks and carbon isotopes of live benthic foraminifera from the South Atlantic

*Supplement to:* **Mackensen, A; Licari, L (2004):** Carbon isotopes of live benthic foraminifera from the South Atlantic: Sensitivity to bottom water carbonate saturation state and organic matter rain rates. In: *Wefer, G; Mulitza, S & Ratmeyer, V (eds.), The South Atlantic in the Late Quaternary: Reconstruction of Material Budgets and Current Systems, Springer, Berlin, Heidelberg, New York*

*Size:* 3 datasets

doi:10.1594/PANGAEA.728233 - Score: 74% - Similar datasets

3. **Hayward, BW; Carter, R; Grenfell, HR et al. (2001):** Distribution of deep-sea foraminifera in surface sediments east of New Zealand

*Supplement to:* **Hayward, BW; Carter, R; Grenfell, HR et al. (2001):** Depth distribution of Recent deep-sea benthic foraminifera east of New Zealand, and their potential for improving paleobathymetric assessments of Neogene microfaunas. *New Zealand Journal of Geology and Geophysics*

*Reference:* **Hayward, BW; Neil, HL; Carter, R et al. (2002):** Factors influencing the distribution patterns of Recent deep-sea benthic foraminifera, east of New Zealand, Southwest Pacific Ocean. *Marine Micropaleontology*

*Size:* 3 datasets

doi:10.1594/PANGAEA.705250 - Score: 35% - Similar datasets

# Data access



Uvigerina ex. gr. U. semiornata

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[\(Table 2\) Stable carbon and oxygen isotope ratios of live Uvigerina ...](#)  
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Schumacher, S et al. (2010): (Table 2) Stable carbon and oxygen isotope ratios of live **Uvigerina ex gr. U. semiornata** from sediment core CD151\_56111#1.  
Sie haben diese Seite 5 Mal aufgerufen. Letzter Besuch: 27.09.11

[\(Table 2\) Stable carbon and oxygen isotope ratios of live Uvigerina ...](#)  
[doi.pangaea.de/10.1594/PANGAEA.707872](https://doi.pangaea.de/10.1594/PANGAEA.707872) - Diese Seite übersetzen  
Schumacher, S et al. (2010): (Table 2) Stable carbon and oxygen isotope ratios of live **Uvigerina ex gr. U. semiornata** from sediment core CD145\_55803#5.

[\(Table 2\) Stable carbon and oxvaen isotone ratios of live Uvigerina ...](#)

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Geographic coverage

Region

▶ Atlantic Ocean (937)  
▶ Pacific Ocean (749)  
▶ Indian Ocean (629)  
▶ Southern Ocean (380)  
▶ Mediterranean Region (204)  
more facets...

[\(Table 2\) Stable carbon and oxygen isotope ratios of live Uvigerina ex gr. U. semiornata from sediment core CD146\\_55901#11 \(2010\)](#) +

Schumacher, Stefanie; Jorissen, Frans J; Mackensen, Andreas; Gooday, Andrew J; Pays, Olivier  
doi:10.1594/PANGAEA.707873

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

[\(Table 2\) Stable carbon and oxygen isotope ratios of live Uvigerina ex gr. U. semiornata from sediment core CD151\\_56101#7 \(2010\)](#) +

Schumacher, Stefanie; Jorissen, Frans J; Mackensen, Andreas; Gooday, Andrew J; Pays, Olivier  
doi:10.1594/PANGAEA.707874

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

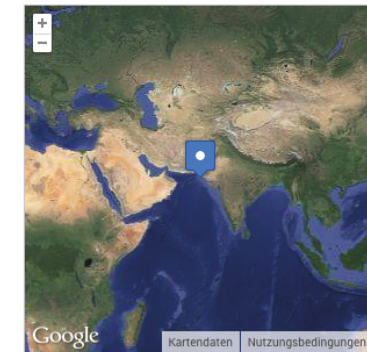
[\(Table 2\) Stable carbon and oxygen isotope ratios of live Uvigerina ex gr. U. semiornata from sediment core CD151\\_56110#1 \(2010\)](#) +

Schumacher, Stefanie; Jorissen, Frans J; Mackensen, Andreas; Gooday, Andrew J; Pays, Olivier  
doi:10.1594/PANGAEA.707875

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

Author

Ehrmann, Werner U (571)



filter by map bounding box

## search for *Globobulimina affinis*

Logged in as **sschumacher** (log out, profile)



**PANGAEA®**  
Data Publisher for Earth & Environmental Science

Always quote citation when using data!

### Data Warehouse Download (BETA) on query for »Globobulimina...«

To start a data warehouse download, add geocodes (colored red/blue) and parameters to the configuration by dragging or double-clicking them. It is recommended to first choose a vertical geocode (colored red) to further reduce the list of available parameters. Order of geocodes and parameters in the download matrix may be changed by dragging rows in the configuration list. For best results put latitude/longitude in one of the first columns, as the download matrix is ordered by the primary geocode! Depending on size of result set, the query may take some time until file download starts.

#### Available Parameters and Geocodes

Page 1 of 217 < prev 1 2 3 4 5 6 next >

Score ▼	Parameter/Geocode	
	DEPTH, sediment [m]	+
	LATITUDE	+
	LONGITUDE	+
	DATE/TIME	+
	AGE [ka BP]	+
100.0%	Globobulimina affinis	+
37.8%	Globobulimina affinis [# / 10 cm <sup>3</sup> ]	+
19.9%	Sample code/label	+
17.9%	Globobulimina affinis [# / g]	+
15.6%	Globobulimina pacifica	+
14.0%	Melonis pompilioides	+
13.5%	Pullenia bulloides	+
13.1%	Globobulimina affinis [%]	+
12.0%	Depth, composite [mcd]	+
11.8%	Uvigerina peregrina	+

- Implicit averaging  
 Calculate standard deviation of averaged values

Download data in the following character encoding: x-MacRoman: Macintosh Roman

Start Data Warehouse Query

#### Configuration

Page 1 of 1 < prev 1 next >

Parameter/Geocode	Method	
LATITUDE		↓ ↑
LONGITUDE		↑ ↓
DEPTH, sediment [m]		↑ ↓
AGE [ka BP]		↑ ↓
Globobulimina affinis [# / 10 cm <sup>3</sup> ]	<any>	↑

## search for *Globobulimina affinis*

	A	B	C	D	E	F	G	H	I	J	K	L
1	Latitude	Longitude	Depth [m]	Age [ka BP]	G. affinis	G. affinis [# / 10 cm**3]	G. affinis [# / g]	G. affinis [%]	Origin of Values			
2	-45.85	-75.6922	0.45		R				<a href="http://doi.pangaea.de/10.1594/PANGAEA.299500">http://doi.pangaea.de/10.1594/PANGAEA.299500</a>			
3	-45.85	-75.6917	478.12		R				<a href="http://doi.pangaea.de/10.1594/PANGAEA.299501">http://doi.pangaea.de/10.1594/PANGAEA.299501</a>			
4	-31.785	15.5	0					0	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511340">http://doi.pangaea.de/10.1594/PANGAEA.511340</a>			
5	-31.785	15.5	0					0	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511368">http://doi.pangaea.de/10.1594/PANGAEA.511368</a>			
5	-31.785	15.5	0			0			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511349">http://doi.pangaea.de/10.1594/PANGAEA.511349</a>			
7	-31.785	15.5	0.02			0.12			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511349">http://doi.pangaea.de/10.1594/PANGAEA.511349</a>			
8	-31.785	15.5	0.02					4.6	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511342">http://doi.pangaea.de/10.1594/PANGAEA.511342</a>			
9	-31.785	15.5	0.02			0.26		0.3	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511345">http://doi.pangaea.de/10.1594/PANGAEA.511345</a> ;			
0	-31.785	15.5	0.04			0.26			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511349">http://doi.pangaea.de/10.1594/PANGAEA.511349</a>			
1	-31.785	15.5	0.04			0			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511349">http://doi.pangaea.de/10.1594/PANGAEA.511349</a>			
2	-28.998333	13.836667	0			0			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511339">http://doi.pangaea.de/10.1594/PANGAEA.511339</a>			
3	-28.998333	13.836667	0.02			0			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511339">http://doi.pangaea.de/10.1594/PANGAEA.511339</a>			
4	-28.998333	13.836667	0.02			0			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511339">http://doi.pangaea.de/10.1594/PANGAEA.511339</a>			
5	-28.998333	13.836667	0.04			0			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511339">http://doi.pangaea.de/10.1594/PANGAEA.511339</a>			
6	-28.998333	13.836667	0.04			0.26			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511339">http://doi.pangaea.de/10.1594/PANGAEA.511339</a>			
7	-28.998333	13.836667	0.06			0.26			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511339">http://doi.pangaea.de/10.1594/PANGAEA.511339</a>			
8	-27.951667	14.005	0					0.7	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511340">http://doi.pangaea.de/10.1594/PANGAEA.511340</a>			
9	-27.951667	14.005	0					0	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511368">http://doi.pangaea.de/10.1594/PANGAEA.511368</a>			
0	-27.951667	14.005	0			0			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511350">http://doi.pangaea.de/10.1594/PANGAEA.511350</a>			
1	-27.951667	14.005	0.02			0			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511350">http://doi.pangaea.de/10.1594/PANGAEA.511350</a>			
2	-27.951667	14.005	0.02					0.1	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511342">http://doi.pangaea.de/10.1594/PANGAEA.511342</a>			
3	-27.951667	14.005	0.02			0		0	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511345">http://doi.pangaea.de/10.1594/PANGAEA.511345</a> ;			
4	-27.951667	14.005	0.04			0			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511350">http://doi.pangaea.de/10.1594/PANGAEA.511350</a>			
5	-27.951667	14.005	0.04			0.06			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511350">http://doi.pangaea.de/10.1594/PANGAEA.511350</a>			
6	-26.791667	13.455	0					1.1	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511340">http://doi.pangaea.de/10.1594/PANGAEA.511340</a>			
7	-26.791667	13.455	0					0	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511368">http://doi.pangaea.de/10.1594/PANGAEA.511368</a>			
8	-26.791667	13.455	0			0			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511351">http://doi.pangaea.de/10.1594/PANGAEA.511351</a>			
9	-26.791667	13.455	0.02			0.06			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511351">http://doi.pangaea.de/10.1594/PANGAEA.511351</a>			
0	-26.791667	13.455	0.02					1.3	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511342">http://doi.pangaea.de/10.1594/PANGAEA.511342</a>			
1	-26.791667	13.455	0.02			0.26		0.6	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511345">http://doi.pangaea.de/10.1594/PANGAEA.511345</a> ;			
2	-26.791667	13.455	0.04			0.06			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511351">http://doi.pangaea.de/10.1594/PANGAEA.511351</a>			
3	-26.791667	13.455	0.04			0.26			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511351">http://doi.pangaea.de/10.1594/PANGAEA.511351</a>			
4	-25.516667	13.233333	0					3.3	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511340">http://doi.pangaea.de/10.1594/PANGAEA.511340</a>			
5	-25.516667	13.233333	0					3.3	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511368">http://doi.pangaea.de/10.1594/PANGAEA.511368</a>			
6	-25.516667	13.233333	0			1.86			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511352">http://doi.pangaea.de/10.1594/PANGAEA.511352</a>			
7	-25.516667	13.233333	0.02			2.76			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511352">http://doi.pangaea.de/10.1594/PANGAEA.511352</a>			
8	-25.516667	13.233333	0.02			1.4		5.4	<a href="http://doi.pangaea.de/10.1594/PANGAEA.511345">http://doi.pangaea.de/10.1594/PANGAEA.511345</a> ;			
9	-25.516667	13.233333	0.04			1.98			<a href="http://doi.pangaea.de/10.1594/PANGAEA.511352">http://doi.pangaea.de/10.1594/PANGAEA.511352</a>			





# Empty archives

Most researchers agree that open access to data is the scientific ideal, so what is stopping it happening? **Bryn Nelson** investigates why many researchers choose not to share.



In 2003, the University of Rochester in New York launched a digital archive designed to preserve and share dissertations, preprints, working papers, photographs, music scores — just about any kind of digital data the university’s investigators could produce. Six months of research and marketing had convinced the university that a publicly accessible online archive would be well received. At the time of the launch, the university librarians were worried that a flood of uploaded data might swamp the available storage space.

Six years later, the US\$200,000 repository lies mostly empty.

or didn’t understand how to use the archive, or lamented that they just didn’t have any more hours left in the day to spend on this business.

As Gibbons and anthropologist Nancy Fried Foster observed in their 2005 postmortem<sup>1</sup>, “The phrase ‘if you build it, they will come’ does not yet apply to IRs [institutional repositories].”

A similar reality check has greeted other data-sharing efforts. Most researchers happily embrace the idea of sharing. It opens up observations to independent scrutiny, fosters

data. Physicists, mathematicians and computer scientists use arXiv.org, operated by Cornell University in Ithaca, New York; the International Council for Science’s World Data System holds data for fields such as geophysics and biodiversity; and molecular biologists use the Protein Data Bank, GenBank and dozens of other sites. The astronomy community has the International Virtual Observatory Alliance, geo-

scientists and environmental researchers have Germany’s Publishing Network for Geoscientific & Environmental Data (PANGAEA),

**“We got the software up and running and said ‘Give us your stuff’. That’s**

ILLUSTRATION BY J.H. VANDERDONCK



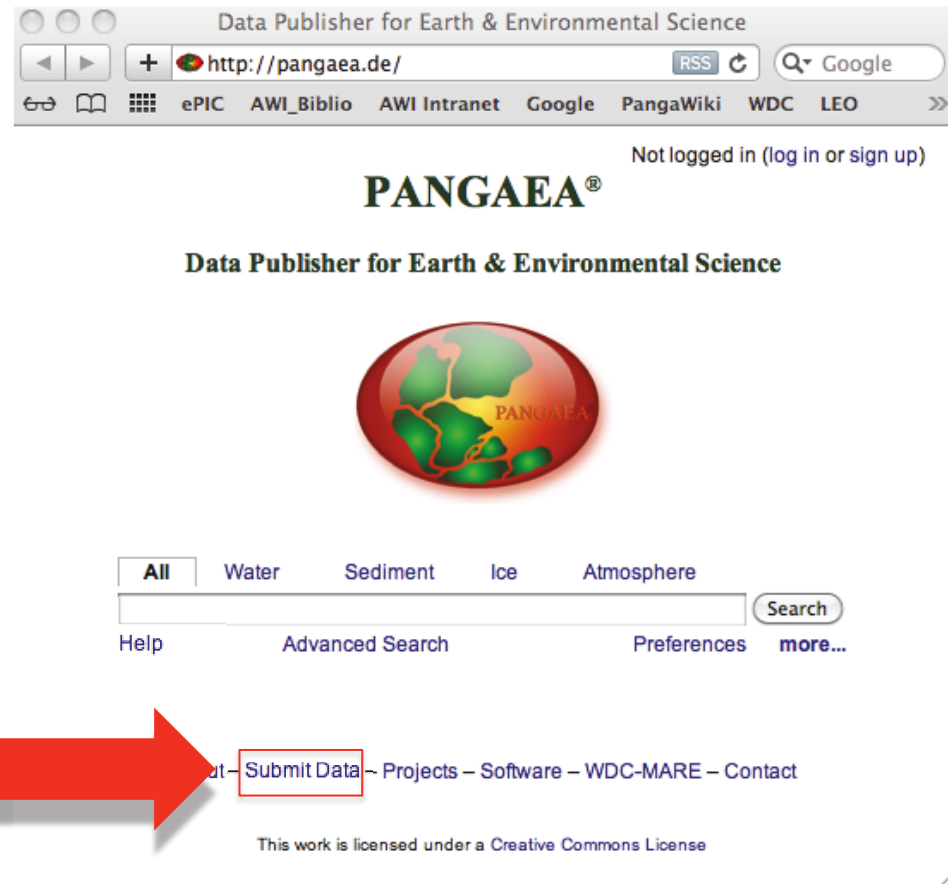
# Submit Data



Data provided by author/  
principle investigator

During manuscript  
preparation or submission

data can be  
password protected  
until paper is  
published



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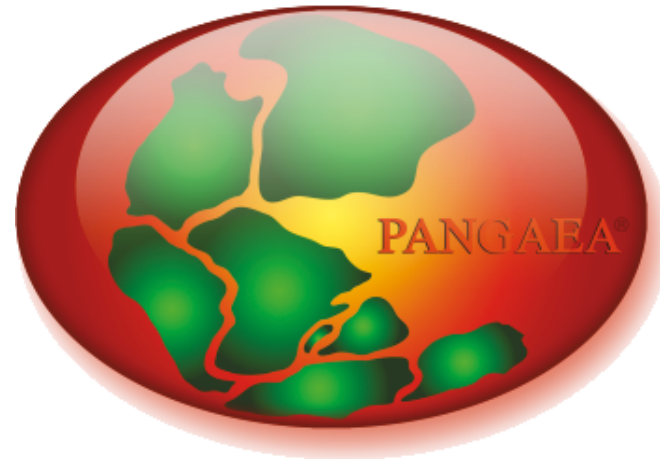
## Your benefit:

- ❖ citeable data, can be cross-referenced with journal articles

**Acknowledgements**

For supplementary data see: [doi:10.1594/PANGAEA.707882](https://doi.org/10.1594/PANGAEA.707882).

- ❖ data in portals and catalogues, linked in ePic
- ❖ open access to data
- ❖ data in several widely accepted machine-readable formats
- ❖ persistent identifier (DOI)
- ❖ quality assurance on metadata



[www.pangaea.de](http://www.pangaea.de)

We are looking forward to archive Your data.

Thank You