

1. Management & Organization

1.1 IFM-GEOMAR Overview

The Leibniz Institute of Marine Sciences at the University Kiel (IFM-GEOMAR) was founded January 1, 2004 through a merger of the former Institute for Marine Research (IfM) and the GEOMAR Research Centre for Marine Geosciences.

The mission of IFM-GEOMAR is **to investigate the physical, chemical, biological, and geological processes in the ocean and their interaction with the seafloor and the atmosphere.**

The main research topics are grouped in four areas: Ocean Circulation and Climate Dynamics, Marine Biogeochemistry, Marine Ecology, and Dynamics of the Ocean Floor. In addition, there are two major interdisciplinary Collaborative Research Centres (SFBs) funded by the German Science Foundation (DFG).

The institute is an independent foundation under public law, supervised by a "Board of Governors" which consists of representatives of State and Federal Governments, the University of Kiel, a representative from another research institution, a representative from private industry and the chairman of the institute's Scientific Advisory Board (SAB). The SAB of IFM-GEOMAR is an internationally constituted advisory group with leading scientists representing all major research disciplines found at the institute. An overview of the organizational structure of the institute is shown in Figure 1 (page 4). By the end of 2005, IFM-GEOMAR had about 400 employees, including 243 scientists and 16 service and technical staff. About 146 scientists and 16 service and technical staff were funded through research grants.

The Leibniz Institute of Marine Sciences is associated with the University of Kiel and contributes substantially to undergraduate and graduate teaching in the following fields: oceanography, meteorology, biological oceanography, fishery biology, marine chemistry, marine geology, geophysics, mineralogy and igneous petrology/geochemistry.

The involvement of diploma and Ph.D. students in research projects is an important element of IFM-GEOMAR research. The total number of students at IFM-GEOMAR is currently about 300. Through training of students and young scientists from foreign countries, the institute has contributed significantly to the development of infrastructures for marine science in many regions of the world. Several international study programmes have been implemented in recent years.

Much of the institute's research work contributes to international research efforts such as the World Climate Research Programme (WCRP), the International Geosphere-Biosphere Programme (IGBP) or the Integrated Ocean Drilling Programme (IODP). Emphasis is on a better understanding of the ocean's past and present role for climate variations and air-sea interactions, the role of biogeochemical transport and transformations in global change, the response and sensitivity of marine ecosystems to external forcing, gas hydrate research and risk assessment of natural hazards due to plate tectonics.

IFM-GEOMAR scientists have a long tradition of participating in national and international planning and management of large-scale interdisciplinary research programs. This includes programmes such as CLIVAR (Climate Variability and Predictability), BALTEX (Baltic Sea Experiment), SOLAS (Surface Ocean Lower Atmosphere), GLOBEC (Global Ocean Ecosystems Dynamics), IODP, Interridge, and others.

The scientific work of IFM-GEOMAR could not have been maintained without funding of peer-reviewed proposals through the German Science Foundation (DFG), the Federal Ministry of Education and Research (BMBF), the directorates of the European Union (EU) as well as other funding agencies. We would like to express our gratitude to all of those who have supported our research during the past years.

Highlights in this context are the two Collaborative Research Centres

(Sonderforschungsbereiche) in which IFM-GEOMAR plays a leading role. Since 1996, DFG has supported SFB 460 on "Dynamics of Thermohaline Circulation Variability". SFB 574 on "Fluids and Volatiles in Subduction Zones" that started in 2000, was implemented within the groups of the former GEOMAR and investigates the "subduction factory" and its role for climate feedbacks and natural disasters.

The results of the institute's research work are generally made available through a wide range of publications. The main emphasis is on peer-reviewed international journals. Increasingly, dissemination of information in electronic form through the internet portal of IFM-GEOMAR (www.ifm-geomar.de) is used.

In particular in the field of technology development, IFM-GEOMAR cooperates with a number of small and medium-sized enterprises, that are active in marine technology and science and are partly founded by former staff members of the institute.

The Leibniz Institute of Marine Sciences is a member of the Leibniz Association (Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz (WGL)) and the Konsortium Deutsche Meeresforschung (KDM).

1.2 Organizational Structure (31.12.2005)

1. Directorate

The directorate of IFM-GEOMAR consists of the director (chair) and the leaders of the research divisions. Current members of the directorate are:

- **Prof. Dr. P.M. Herzig (Director)**
- Prof. Dr. M. Latif (RD1)
- Prof. Dr. D.W.R. Wallace (RD2)
- Prof. Dr. U. Sommer (RD3)
- Prof. Dr. C.W. Devey (RD4)

2. Board of Governors

- **Jost de Jager, Secretary of state, Ministry for Science, Economy and Transportation of the State of Schleswig-Holstein, Kiel (Chair)**
- RD R. Ollig, Federal Ministry for Education and Research, Bonn
- Prof. Dr. J. Eckert, Rector, Christian-Albrechts-University, Kiel
- Prof. Dr. J. Grotemeyer, Dean of the Faculty for Mathematics and Natural Sciences, Christian-Albrechts-University, Kiel
- Prof. Dr. H. Graßl, Chair, Scientific Advisory Board, Max-Planck-Institut for Meteorology, Hamburg
- Prof. Dr. J. Thiede, Director, Alfred-Wegener-Institute for Polar and Marine Research, Bremerhaven
- Dipl.-Ing. D. Lindenau, Managing director, Lindenau GmbH, Shipyards and Engineering Works, Kiel

Guests with consulting status:

- Dr. I. Hennings, Representative of the Scientific Staff (staff council)
- Mrs. B. Dörmeyer, Representative of the Non-scientific Staff (staff council)
- Mrs. B. Schmidt, Representative for Equal Rights
- Dr. B. Roß, Representative of the Ministry for Trade, Commerce, and Transportation of the State of Schleswig-Holstein
- Prof. Dr. P.M. Herzig, Director of IFM-GEOMAR
- Prof. Dr. D.W.R. Wallace, Assistant Director of IFM-GEOMAR
- Prof. Dr. K. Hoernle, Assistant Director of IFM-GEOMAR
- Prof. Dr. U. Riebesell, Chair, Scientific Council

Other guests:

- Mr. W.-R. Janzen, Managing Director, IHK Kiel
- Mrs. I. Schultheiß, Administrative Chief Officer, IFM-GEOMAR
- Dr. N. Schmidt, Science Coordinator, IFM-GEOMAR
- Dr. A. Villwock, Public Relations and Central Affairs, IFM-GEOMAR

3. Scientific Advisory Board

- Prof. Dr. D.L.T. Anderson, European Centre for Medium-Range, Weather Forecasts, Berkshire, UK
- Prof. Dr. E.A. Boyle, Department of Geology and Geophysics, Mass. Institute of Technology, Cambridge, USA
- **Prof. Dr. H. Graßl (Chair), Max-Planck-Institute for Meteorology, Hamburg**
- Prof. Dr. R. Hékinian, IFREMER, Brest, France
- Prof. Dr. N.G. Hogg, WHOI Woods Hole Oceanographic Institution, Physical Oceanography Woods Hole, MA, USA
- Prof. Dr. A.C. Mix, College of Oceanic & Atmospheric Sciences, Oregon State University, Corvallis, USA
- Prof. Dr. Y. Olsen, Norwegian University of Sciences and Technology, Institute of Biology, Trondheim, Norway
- Prof. Dr. J.A. Pearce, Department of Earth Science, Marine Geology and Geochemistry, Cardiff University, UK
- Prof. Dr. K. Richardson, University of Aarhus, Denmark
- Prof. Dr. D. Turner, Chalmers tekniska högskola, Göteborg, Sweden
- Prof. Dr. A. Watts, Department of Earth Sciences University of Oxford, UK
- Prof. Dr. D.H. Welte, Gesellschaft für Integrierte Explorationssysteme mbH, Jülich

4. Scientific Council

Members (Member / Deputy Member):
Prof. Dr. U. Riebesell (Chair), Prof. Dr. E. Flüh (Deputy Chair).

a. Professors:

- W.-C. Dullo / M. Frank
- A. Macke / M. Latif
- M. Visbeck / N.N.
- J. Willebrand / C. Böning
- A. Eisenhauer / N.N.
- A. Körtzinger / D. Wallace
- U. Riebesell / K. Lochte
- N.N. / K. Lochte / D. Wallace
- J. Imhoff / D. Schnack
- M. Wahl / U. Sommer
- K. Hoernle / C. Devey
- T. Reston / N.N.

b. Assistant Professors and Scientists with "Habilitation":

- FB1: D. Dommenges / N.N.
- FB2: K. Wallmann / J. LaRoche
- FB3: R. Hanel / H.-G. Hoppe
- FB4: E. Flüh / A. Freundt

c. Scientific staff:

- FB1: T. Martin / J. Karstensen
- FB2: G. Rehder / B. Quack
- FB3: U. Piatkowski / G. Kraus
- FB4: D. Klaeschen / F. Hauff

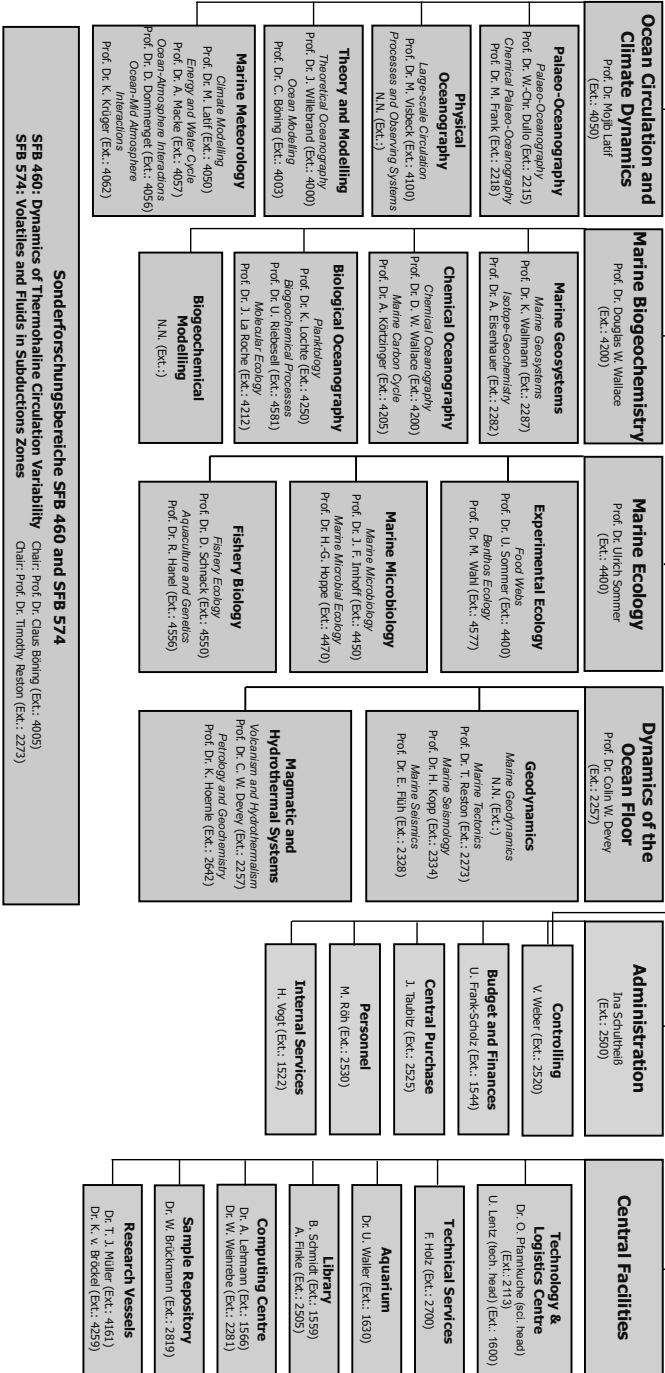
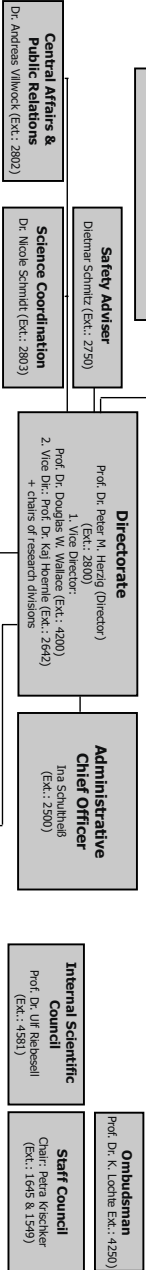
Management & Organization

Organization
Date: 10.02.2006

Scientific Advisory Board
Chair: Prof. Dr. Hartmut Graftl

Board of Governors (Stiftungsrat)
Chair: Just de Jager
Ministry of Science, Higher Education, and Transportation of the State of Schleswig-Holstein

IFM-GEOMAR
Leibniz-Institut für Meereswissenschaften
an der Universität Kiel



2. Personnel

Table 2.1

Employment positions acc. to sources of support and pay/remuneration grade¹⁾

- Personnel (financed by institutional and third-party resources) in terms of full-time equivalents as of [reporting date 31.12.2005] -

	Total number ^{2), 3)}	Number financed by	
		institutional resources ²⁾	third-party resources ²⁾
Total	336.5	221.3	115.2
1. Academic and higher management staff	155.6	93.3	62.2
- S (C3, C4, SDV)	21.0	21.0	0.0
- S (W1, C1, C2)	9.0	9.0	0.0
- I / A 16	1.0	1.0	0.0
- Ia / A 15	6.0	4.0	2.0
- Ib / A 14	33.5	33.5	0.0
- IIa / A 13 / III ⁴⁾	85.1	24.8	60.2
2. Doctoral candidates	38.0	0,5	37.5
3. Other staff	143.0	127.5	15.5
- III, IV / A 12, A 11, A 10	42.4	37.4	5.0
- V / A 9, A 8	58.8	52.3	6.5
- VI / A 7	20.0	18.0	2.0
- VII , VIII / A 6, A 5	2.0	2.0	0.0
- Wage brackets, other staff	18.6	16.6	3.0
- Trainees	1.0	1.0	0.0

¹⁾ Employment positions acc. to BAT or other collective pay agreements for staff which is financed by institutional or third-party resources (incl. trainees and guest scientists, but excluding diploma students, student assistants und contracts for work and services)

²⁾ In full time equivalents; correct to one decimal place only

³⁾ Values in column 2 („Total number“) for „Total“, „1. Academic and management staff“, „2. Doctoral candidates“ und „3. Other staff“ correspond to the respective values in Table 2.2

⁴⁾ Employment acc. to BAT III until Diplom degree was conferred

Table 2.2

**Employment positions acc. to organizational units
- Personnel (financed by institutional and third-party resources) in terms of
full-time equivalents as of [reporting date 31.12.2005] -**

Employment positions	Total	Academic and higher manage- ment staff ¹	Doctoral candidates²	Other staff, trainees
Entire establishment	336.5	155.6	38.0	143.0
Research Division 1	89.5	54.5	11.0	24.0
Research Division 2	62.7	31.3	11.5	19.9
Research Division 3	49.5	27.7	7.0	14.8
Research Division 4	48.5	32.0	8.5	8.0
Interdisciplinary Project Groups	0.0	0.0	0.0	0.0
Central Facilities (without administration)	56.4	9.1	0.0	47.3
Administration	29.9	1.0	0.0	28.9

¹⁾ Employment positions acc. to BAT IIa and above (not incl. doctoral candidates)

²⁾ Doctoral candidates if financed by institutional or third-party resources

Table 2.3
Personnel

**In persons (financed by institutional and third-party resources) acc. to pay/remuneration grade
[reporting date 31.12.2005]**

	Total number	Financed by third- party resources		Temporary contracts		Women		Women with temporary contracts	
		Number	% ¹⁾	Number	% ¹⁾	Number	% ¹⁾	Number	% ¹⁾ , ²⁾
Total	406	162	39.9%	193	47.5%	156	38.4%	76	48.7%
1. Academic and higher management staff	167	71	42.5%	93	55.7%	40	24.0%	31	77.5%
- S (C3, C4, SDV)	21	0	0.0%	0	0.0%	1	4.8%	0	0.0%
- S (W1, C1, C2)	9	0	0.0%	3	33.3%	3	33.3%	2	66.7%
- I / A 16	1	0	0.0%	0	0.0%	0	0.0%	0	
- Ia / A 15	7	2	28.6%	2	28.6%	3	42.9%	1	33.3%
- Ib / A 14	34	0	0.0%	1	2.9%	4	11.8%	0	0.0%
- IIa / A 13 / III ³⁾	95	69	72.6%	87	91.6%	29	30.5%	28	96.6%
2. Doctoral candidates	76	75	98.7%	76	100.0%	31	40.8%	31	100.0%
3. Other staff	163	16	9.8%	24	14.7%	85	52.1%	14	16.5%
- III, IV / A 12, A 11, A 10	45	5	11.1%	5	11.1%	17	37.8%	3	17.6%
- V / A 9, A 8	69	7	10.1%	10	14.5%	42	60.9%	6	14.3%
- VI / A 7	25	2	8.0%	2	8.0%	19	76.0%	1	5.3%
- VII, VIII / A 6, A 5	4	0	0.0%	2	50.0%	3	75.0%	2	66.7%
- Wage groups, other staff	19	2	10.5%	4	21.1%	3	15.8%	1	33.3%
- Trainees	1	0	0.0%	1	100.0%	1	100.0%	1	100.0%

¹⁾ Correct to one decimal place only

²⁾ Women with temporary contracts / number of women

³⁾ One position paid acc. to BAT III until Diplom degree was conferred

Table 2.4

Academic and higher management staff¹⁾: age and duration of employment
(as of reporting day: 31.12.2005)

	Age groups in years									
	< 30		30 - 39		40 - 49		50 - 59		> 59	
	Total	Wom- en	Total	Wom- en	Total	Wom- en	Total	Wom- en	Total	Wom- en
Total	8	2	73	25	55	11	23	1	8	0
Research Division 1	3	1	32	9	13	2	7	0	2	0
Research Division 2	0	0	10	3	18	5	3	1	2	0
Research Division 3	4	2	9	3	8	3	8	0	3	0
Research Division 4	1	0	18	6	10	0	4	0	0	0
Interdisciplinary Project Groups	0	0	0	0	0	0	0	0	0	0
Central Facilities (without administration)	0	0	3	3	6	1	1	0	0	0
Administration	0	0	1	1	0	0	0	0	1	0

	Duration of employment at establishment in years									
	< 5		5 - 9		10 - 14		15 - 20		> 20	
	Total	Wom- en	Total	Wom- en	Total	Wom- en	Total	Wom- en	Total	Wom- en
Total	101	32	24	4	17	1	17	3	8	0
Research Division 1	36	11	10	0	2	0	6	1	3	0
Research Division 2	18	4	6	3	4	0	4	2	1	0
Research Division 3	19	7	2	0	6	1	1	0	4	0
Research Division 4	19	5	5	1	4	0	5	0	0	0
Interdisciplinary Project Groups	0	0	0	0	0	0	0	0	0	0
Central Facilities (without administration)	8	4	1	0	1	0	0	0	0	0
Administration	1	1	0	0	0	0	1	0	0	0

¹⁾ Number (persons) paid acc. to BAT IIa and above (not incl. doctoral candidates)

3. Budgets & Projects

3.1 Budget Tables

Table 3.1: Revenues and expenditures					
(in € 1,000)					
		2005 ¹⁾	2004 ¹⁾	2003 ⁷⁾	2002 ⁷⁾
Revenues²⁾					
Total		42,664.3	41,826.1	37,457.0	41.169,5
1. Institutional support		26,085.7	26,614.3	23,606.0	24,734.0
	- German Länder ³⁾	14,217.7	14,626.3	15,641.0	16.408,0
	- Federal Government ³⁾	11,868.0	11,988.0	7,965.0	8.326,0
	- Other institutional support ⁴⁾	0.0	0.0	0.0	0,0
<i>Proportion of institutional support in overall financial resources (in %)</i>		61.1%	63.6%	63.0%	60.1%
2. Third-party resources		16,578.6	15,211.8	13,851.0	16,435.5
2.1 Research support		14,549.1	14,233.9	12,295.7	14,796.4
	- DFG (German Research Council)	2,367.2	3,527.0	2,380.2	2.425,4
	- DFG-SFB 406 und 574	2,615.8	4,418.7	3,497.9	3.117,5
	- Federal Government	5,228.3	4,174.1	3,836.6	6.247,9
	- German Länder	840.6	193.4	162.0	170,3
	- EU project funding	3,397.0	1,513.1	2,092.1	2.504,2
	- Foundations, other research support	100.2	365.2	260.0	220,1
	- Joint projects with the University of Kiel	0.0	32.3	66.9	111,2
2.2 Services, contracts, licences, publications		844.2	792.5	902.4	547.0
	- Contracts from private enterprises or public authorities, co-operation with industry	844.2	792.5	902.4	547,0
	- Patent exploitation, licences	0.0	0.0	0.0	0,0
	- Publications	0.0	0.0	0.0	0,0
	- Other services	0.0	0.0	0.0	0,0
2.3 Other third-party resources		1,185.3	195.4	652.9	1,092.1
	- Aquarium	70.4	17.1	27.3	29,0
	- Income by third-party contracts	72.0	0.0	0.0	0,0
	- Misc. income (interest, etc.)	48.7	40.0	36.8	49,1
	- Rentals	0.3	3.0	8.6	11,2
	- Charter for Research Vessels	991.0	133.5	568.0	989,8
	- Sale of vehicles	2.9	1.7	12.0	13,0
	- Other sales	0.0	0.1	0.2	0,0
<i>Proportion of third-party funding in overall financial resources (in %)</i>		39.4%	36.4%	37.0%	39.9%
3. Withdrawal from reserves and the like		0.0	0.0	0.0	0.0

Footnotes see next page.

Table 3.1: Revenues and expenditures (continued)					
(in € 1,000)					
		2005 ¹⁾	2004 ¹⁾	2003 ⁷⁾	2002 ⁷⁾
Expenditures					
Total		41,173.0	39,398.0	44,769.8	47,174.7
4.1 Personnel		17,715.6	17,077.0	15,697.0	15,328.0
4.2 Materials, supplies, equipment		17,151.1	14,842.0	23,373.0	24,208.0
4.3 Investments (not incl. building investments)		3,315.0	2,505.0	1,444.0	3,053.0
4.4 Building investments⁵⁾		375.5	523.0	691.0	1,357.0
4.5 Special Positions (where applicable)⁶⁾		0.0	0.0	0.0	0.0
4.6 Allocations to reserves and the like		0.0	0.0	0.0	0.0
4.7 DFG-SFB 460 and 574		2,615.8	4,418.7	3,497.9	3,117.5
4.8 Joint Projects with the University of Kiel		0.0	32.3	66.9	111.2
4.9 For information only: DFG charges			572.0	371.0	378.0

¹⁾ Previous complete calendar year; preliminary data where applicable

²⁾ Actual revenues in each year classified by financial resource; not incl. money in transit

³⁾ Support according to BLK decision

⁴⁾ Special financing, EU funds

⁵⁾ Building investments, multi-annual measures for building maintenance, land acquisition incl. demolition

⁶⁾ Please explain

⁷⁾ In addition charter costs in the years 2002 (5.934,1 T€) and 2003 (8.031,0 T€)

Table 3.2: Project Funding						
(Revenues in € 1,000)						
		2005	2004	2003 ²⁾	2002 ²⁾	
Total		16,578.6	15,211.8	13,851.0	16,435.5	
- DFG (German Research Council)		2,367.2	3,527.0	2,380.2	2,425.4	
- DFG-SFB 460 und 574		2,615.8	4,418.7	3,497.9	3,117.6	
- Federal Government		5,228.3	4,174.1	3,836.6	6,247.9	
- German Länder		840.6	193.4	162.0	170.2	
- EU project funding		3,397.0	1,513.1	2,092.1	2,504.1	
- Foundations, other research support		100.2	365.3	260.0	220.1	
- Joint projects with the University		0.0	32.3	66.9	111.2	
- Services, contracts, licences, publications		844.2	792.5	902.4	547.0	
- Other third-party resources ¹⁾		1,185.3	195.4	652.9	1,092.1	

¹⁾ For example: donations, member fees, etc.

²⁾ Additional: charter costs in the years 2002 (5.934,1 T€) and 2003 (8.031,0 T€)

Table 3.2: Project Funding ¹⁾ (continued)

- classified by organisational unit -

(Revenues in € 1,000)

	2005 ²⁾	2004 ²⁾	2003	2002
RD 1: Ocean Circulation and Climate Dynamics	3,948.9	6.812.1	5,599.5	6,272.7
- DFG (German Research Council)	749.1	968.6	908.5	1,112.5
- DFG-SFB 460 and 574 (CAU) ⁷⁾	968.3	2,668.0	1,592.1	1,116.6
- Federal Government ⁴⁾	995.2	2,702.5	1,809.9	2,733.4
- German Länder	0.0	41.3	32.8	65.5
- EU project funding	1.062.0	302.7	1,028.1	1,066.6
- Foundations, other research support	0.0	74.2	84.0	32.5
- Joint projects with the University of Kiel (CAU) ⁷⁾	0.0	0.0	0.0	0.0
- Services, contracts, licences, publications	174.3	54.8	144.1	145.6
- Other third-party resources ³⁾	0.0	0.0	0.0	0.0
RD 2: Marine Biogeochemistry	3,337.7	2.326.2	3,157.5	4,025.9
- DFG (German Research Council)	610.3	637.4	385.0	536.6
- DFG-SFB 460 and 574 (CAU) ⁷⁾	422.1	1,000.9	1,234.6	1,173.5
- Federal Government ⁵⁾	1.039.4	304.8	1,082.9	1,885.2
- German Länder	0.0	0.0	0.0	-8.4
- EU project funding	1.162.4	166.2	270.5	360.9
- Foundations, other research support	0.6	53.2	0.7	8.3
- Joint projects with the University of Kiel (CAU) ⁷⁾	0.0	0.0	0.0	0.0
- Services, contracts, licences, publications	102.9	163.7	183.8	69.8
- Other third-party resources ³⁾	0.0	0.0	0.0	0.0
RD 3: Marine Ecology	3,121.1	2,447.9	2,260.9	1,868.8
- DFG (German Research Council)	359.1	369.0	379.8	247.9
- DFG-SFB 460 and 574 (CAU) ⁷⁾	0.0	0.0	0.0	0.0
- Federal Government	596.0	768.4	634.2	639.0
- German Länder	834.7	141.4	128.0	103.3
- EU project funding	931.0	581.1	650.0	495.9
- Foundations, other research support	99.6	237.9	175.3	179.3
- Joint projects with the University of Kiel (CAU) ⁷⁾	0.0	32.3	66.9	111.2
- Services, contracts, licences, publications	300.7	317.8	226.7	92.2
- Other third-party resources ³⁾	0.0	0.0	0.0	0.0
RD 4: Dynamics of the Ocean Floor	4,776.7	3,227.6	2,170.0	3,165.9
- DFG (German Research Council)	541.2	1,383.9	706.9	528.4
- DFG-SFB 460 and 574 (CAU) ⁷⁾	1,225.4	749.8	671.2	827.4
- Federal Government ⁶⁾	2,549.7	373.5	309.6	990.3
- German Länder	0.0	0.0	0.0	0.0
- EU project funding	241.6	463.1	143.5	580.7
- Foundations, other research support	0.0	0.0	0.0	0.0
- Joint projects with the University of Kiel (CAU) ⁷⁾	0.0	0.0	0.0	0.0
- Services, contracts, licences, publications	218.8	257.3	338.8	239.1
- Other third-party resources ³⁾	0.0	0.0	0.0	0.0

Table 3.2: Project Funding ¹⁾ (continued)

- classified by organisational unit -

(Revenues in € 1,000)

	2005 ²⁾	2004 ²⁾	2003	2002
Central Facilities	1,394.2	398.0	663.1	1,102.2
- DFG (German Research Council)	107.5	168.1	0.0	0.0
- DFG-SFB 460 and 574 (CAU) ⁷⁾	0.0	0.0	0.0	0.0
- Federal Government	48.0	24.9	0.0	0.0
- German Länder	5.9	10.7	1.2	9.8
- EU project funding	0.0	0.0	0.0	0.0
- Foundations, other research support	0.0	0.0	0.0	0.0
- Joint projects with the university of Kiel (CAU) ⁷⁾	0.0	0.0	0.0	0.0
- Services, contracts, licences, publications	47.5	-1.1	9.0	0.3
- Other third-party resources ³⁾	1,185.3	195.4	652.9	1,092.1

¹⁾ Actual expenditure in each year classified by financial resource

²⁾ Previous complete calendar year; preliminary data where applicable

³⁾ For example: donations, member fees etc.; specify data if relevant.

⁴⁾ Total sums excluding charter costs RV „Sonne“ in the years 2003 (2,877.5 k€) and 2002 (1,404.4 k€)

⁵⁾ Total sums excluding charter costs RV „Sonne“ in the years 2003 (901.7 k€) and 2002 (2,040.5 k€)

⁶⁾ Total sums excluding charter costs RV „Sonne“ in the years 2003 (4,251.9 k€) and 2002 (2,489.2 k€)

⁷⁾ Grant/accountancy: Christian-Albrechts-University (CAU), Kiel

3.2 Projects

Projects - Research Division 1: Ocean Circulation and Climate Dynamics (without SFB)

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
1	Ba 1367/6 -1+2, LIONS	Last Interglacial Ocean of the Nordic Seas	DFG	Dr. Bauch	01.01.2005 - 31.07.2007	128.900,00
2	Du 129/33-1, Leibniz Preis Dullo	Leibniz Preis	DFG	Prof. Dullo	30.06.2002 - 31.05.2007	1.550.000,00
3	Du 129/34-1, Moundforce	Forcing of carbonate mounds and deep water coral reefs along the NW European continental margin	DFG	Prof. Dullo	01.11.2003 - 31.10.2005	142.300,00
4	DU 129/34-2, Moundforce 2	Forcing of carbonate mounds and deep water coral reefs along the NW European continental margin	DFG	Prof. Dullo	01.06.2005 - 31.03.2007	70.050,00
5	Du 129/372-2, TRISTAN	Temperatur-Rekonstruktion aus der Isotopen-Signatur von Tiefwasserkorallen des Atlantik und der Nordsee	DFG	Prof. Dullo	01.07.2005 - 30.06.2007	141.600,00
6	Ha 2891/5-1, Milankovich Cycles	Changes of the orbital (Milankovich) parameters and their flair influence on paleoclimate and sedimentology during times of global warmth	DFG	Hay / Prof. Dullo	01.05.2003 - 30.04.2005	131.740,00
7	Ha 2891/5-2, Milankovitch Cydes 2	Changes of orbital (Milankovitch) parameters and their influence on paleoclimate, paleoceanology and sedimentology during times of global warmth	DFG	Prof. Dullo	01.07.2005 - 30.06.2006	65.800,00
8	HA 853/13-2 , Sturmhäufigkeit auf dem Weltmeer	Änderung der Sturmhäufigkeit auf dem Weltmeer, untersucht an Hand von Luftdruckbeobachtungen	DFG	Prof. Hasse	01.03.2004 - 28.02.2005	28.650,00
9	HE 3482/2- 1, Pleistozäne Warmzeiten 2	Pleistozäne Warmzeiten im Europäischen Nordmeer	DFG	Dr. Helmke	01.09.2004 - 30.08.2005	64.800,00
10	LA 2313/1-1	Reisekosten für Ferienkurs: 2005 Summer School on Lagrangian Oceanography, Boston	DFG	Lankhorst	01.07.2005 - 31.07.2005	660,00
11	OS 175/1-3, DOM	Modellgestützte Untersuchungen zur Bedeutung von gelöstem organischem Material (DOM) für Abschätzungen von neuer Produktion und Exportproduktion im oligtrophen subtropischen Nordatlantik	DFG	PD Dr. Oschlies	01.02.2004 - 31.01.2005	58.400,00
12	OS 175/3-1, Phyto- planktonwachstum	Modellgestützte Untersuchungen der Bedeutung von Eisen für das Phytoplanktonwachstum	DFG	PD Dr. Oschlies	01.03.2004 - 28.02.2006	55.500,00
13	Scho 168/30-1, subtropisch-tropische Zelle	Zirkulation der flachen thermohalinen subtropisch-tropischen Zelle des Atlantiks	DFG	Prof. Schott	01.02.2004 - 31.12.2007	273.273,00
14	SE 815/3-1 MOVE 2005	Varabilität der thermohalinen Zirkulation im subtropischen Atlantik	DFG	Prof. Send	01.07.2005 - 31.12.2005	300.000,00
15	Ti 240/13-2, Deep water circulation 2	Pliocene deep water circulation chemistry in the SE Pacific, 6-2.5 (Leg 202)	DFG	Dr. Tiedemann	01.10.2003 - 30.09.2004	154.300,00

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
16	Ti 240/14-1, Late Micene Time sciae	Development of an orbitally tuned Late Micene time scale (5-12 Ma)	DFG	Dr. Tiedemann	01.07.2004 - 30.06.2006	115.400,00
17	TI 240/15-1	Pleistocene Intermediate- and Deep-Water-Circulation in the SW-Pacific sector off the Southern Ocean. Mittel wurden hier nicht in Anspruch genommen. Mitnahme des Projektes nach Bremen.	DFG	Dr. Tiedemann	01.07.2005 - 01.07.2005	0,00
18	01 LD 0029, DEKLIM	Genauere Messung der Flächenniederschläge über Land und See	BMBF1	Dr. Bumke	01.01.2002 - 31.12.2004	223.621,56
19	03 CIE 003	CIESM-Beitrag 03-05: Internationale Kommission für die wissenschaftliche Erforschung des Mittelmeeres.	BMBF1	Prof. Dullo	01.11.2003 - 31.03.2005	302.911,12
20	03 F 0377 B	"Verbundprojekt: Projekt: CLIVA-Marin II; Vorhaben des Instituts für Meereskunde Kiel im Ozean/CLIVAR-Programm zur Untersuchung der Rolle des Ozeans bei Klimaschwankungen" TP B1-9	BMBF1	Dr. Müller	01.06.2002 - 31.08.2005	81.686,00
21	03 F 0377 B	"Verbundprojekt: Projekt CLIVAR-Marin II; Vorhaben des Instituts für Meereskunde Kiel im Ozean/CLIVAR-Programm zur Untersuchung der Rolle des Ozeans bei Klimaschwankungen" TP B2-1	BMBF1	Prof. Schott	01.06.2002 - 31.08.2005	610.317,00
22	03 F 0377 B TP 5	"Verbundprojekt: Projekt: CLIVAR-marin II; Vorhaben des Instituts für Meereskunde Kiel im Ozean/ CLIVAR-Programm zur Untersuchung der Rolle des Ozeans bei Klimaschwankungen" TP B1-1	BMBF1	Prof. Böning	01.06.2002 - 31.08.2005	195.687,00
23	03 F 0377 B TP 5	"Verbundprojekt: Projekt: CLIVAR-marin II; Vorhaben des Instituts für Meereskunde Kiel im Ozean/CLIVAR-Programm zur Untersuchung der Rolle des Ozeans bei Klimaschwankungen" TP B2-2	BMBF1	Prof. Willebrand	01.06.2002 - 31.08.2005	172.428,00
24	03 F 0377 B, Cliva Marin	"Verbundprojekt: Projekt: CLIVAR-marin II; Vorhaben des Instituts für Meereskunde Kiel im Ozean/CLIVAR-Programm zur Untersuchung der Rolle des Ozeans bei Klimaschwankungen" TP B1-4	BMBF1	Prof. Send	01.06.2002 - 31.08.2005	376.808,00
25	03 G 0589 A Permafrost	Permafrost (Laptev See): Verbundprojekt System Laptev See Permafrost; Prozessstudien zur Dynamik des submarinen Permafrostes in der Laptev See: TP 1	BMBF1	Dr. Kassens	01.07.2003 - 31.08.2006	1.266.818,00
26	03F0367A, ARGO- TROPAT	Verbundprojekt: ARGO; Vorhaben: Untersuchungen zu Zirkulation und Wassermassen-Anomalien mit profilierenden Floats im tropischen Atlantik, ARGO-TROPAT	BMBF1	Dr. Fischer	01.01.2004 - 31.12.2006	1.027.777,00
27	03G0178A SO 178 - KOMEX	SO 178 KOMEX SONNE Expedition: Stoffaustauschprozesse und -bilanzen im Ochtokischen Meer: Wirkungsweise von klimatologischen, ozeanographischen, sedimentären und krusliten-geologischen Steuerungsfaktoren	BMBF1	Prof. Dullo	01.06.2004 - 31.05.2004	214.874,00

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
28	01 LD 0102, DEKLIM	"Ozeanische Aufnahme anthropogener Spurengase: Realistische Darstellung des Effekts mesoskaliger Prozesse in Zirkulationsmodellen" Verlängerung lt. SV vom 04.02.04	BMBF2	Prof. Böning	01.09.2001 - 31.08.2005	310.751,45
29	C3Grid	Callaborative Climate Community Data and Processing Grid (C3Grid)	BMBF2	Dr. Lehmann	01.09.2005 - 31.12.2005	443,70
30	OSL III	Forschungsaufenthalt Gastwissenschaftler	BMBF2	Dr. Kassens	01.03.2005 - 29.02.2008	74.016,00
31	DWD-Cirrus	Improved retrieval of ice cloud properties	DWD	Prof. Macke	01.02.2005 - 30.09.2005	28.857,60
32	PREWA, FE21b	PRECipitable WAter in cloudy areas from combined solar, thermal and microwave radiance measurement	DWD	Prof. Macke	01.07.2004 - 31.12.2005	53.526,00
33	AMMA TP1	AMMA: African Mansoon Multidisciplinary Analysis	EU	Prof. Latif	01.01.2005 - 31.12.2009	125.700,00
34	AMMA TP2	AMMA: African Mansoon Multidisciplinary Analysis	EU	PD Dr. Brandt	01.01.2005 - 31.12.2009	132.300,00
35	CarboOcean TP 2 511176-2	Marine carbon sources and sinks assessment	EU	Dr. Eden	01.01.2005 - 31.12.2009	111.500,00
36	CarboOcean TP 3, 511176-2	Marine carbon sources and sinks assessment	EU	Prof. Send	01.01.2005 - 31.12.2009	187.400,00
37	DYNAMITE GOCE 003903 TP 1	"Integrating and strengthening the European Research Area" Understanding the dynamics of the Coupled Climate System	EU	Prof. Latif	01.03.2005 - 28.02.2008	157.128,00
38	DYNAMITE GOCE 003903 TP 2	"Integrating and strengthening the European Research Area" Understanding the dynamics of the Coupled Climate System	EU	Dr. Eden	01.03.2005 - 28.02.2008	157.128,00
39	Ensembles	ENSEMBLE-based Predictions of Climate Changes and their Impacts	EU	Prof. Latif	01.09.2004 - 31.08.2009	403.074,00
40	EVK2-CT-2001-00134, NOCES	NOCES - "Northern Ocean-Atmosphere Carbon Exchange Study"	EU	PD Dr. Oschlies	01.04.2002 - 31.03.2005	170.439,00
41	EVK2-CT-2002-00153	Model and Observations Test Climate Feedbacks, MOTIF	EU	Prof. Latif	01.02.2003 - 31.01.2006	176.194,00
42	EVK3-CT2001-00053, OROMA	Operational Radar and Optical Mapping in monitoring hydrodynamic, morphodynamic and environmental parameter for coastal management	EU	Dr. Hennings	01.02.2002 - 31.01.2005	202.223,00
43	EVK3-CT-2002-00075, MFSTEP	"Mediterranean ocean Forecasting System: Toward Environmental Predictions"	EU	Prof. Send	01.03.2003 - 28.02.2006	269.052,00
44	EVK3-CT-2002-80012, OMARC	Ocean Margin Research Consortium	EU	Prof. Dullo	01.02.2003 - 31.01.2006	30.034,00
45	SIP3-CT2003-502885, MERSEA WP3	Marine Environment and Security for the European Area	EU	Prof. Send	01.04.2004 - 31.03.2008	512.142,00
46	SIP3-CT2003-502885, MERSEA WP7	Marine Environment and Security for the European Area	EU	PD Dr. Oschlies	01.04.2004 - 31.03.2008	266.760,00

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
47	32.5.8051.0058.0	NaT - Working Meeresforschung.	Robert Bosch Stfg.	Prof. Dullo	01.04.2003 - 31.03.2007	80.900,01
48	EUMETSAT, EU/COL/ DOC/004/0411	Spatial inhomogeneities (clouds, surface emissivity, atmospheric state) in relation to diffraction limited spectral uniformity of the IR sounder Point Spread Function	Europ Organi- sation	Prof. Macke	01.07.2004 - 31.12.2005	72.731,00
49	5.T4.00.G.01-HS 2	Parametrisierung und Validation der Strahlungsbilanz im Regionalmodell	GKSS	Prof. Macke	01.01.2002 - 31.03.2004	95.592,20
50	Frühwarnsysteme	Frühwarnsysteme für globale Klimaveränderungen und ihre historische Dokumentation in natürlichen Klimaarchiven hier: Sachmittelverwaltung aufgrund Kooperationsvereinbarung AWI, IFM-GEOMAR und Akademie	Sonstige	Dr. Spielhagen	01.06.2005 - 31.05.2006	17.184,00
51	Skagerrak-Gas	Kostenerstattung für erbrachte Dienstleistungen	Sonstige	Dr. Rumohr, J. / Dr. Weinrebe	01.05.2005 -	3.000,00
						11.392.376,63

Projects - Research Division 1: Ocean Circulation and Climate Dynamics (SFB only)

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
1	TP A1	Overflow und Vermischung in der Irmingersee	DFG-SFB460	Prof. Käse	01.07.1996 - 31.12.2006	784.946,04
2	TP A1	Overflow und Vermischung in der Irmingersee	DFG-SFB460	Prof. Send	01.07.1996 - 31.12.2006	114.642,37
3	TP A2	Tiefe Konvektion - Variabilität und Relevanz für das marine CO ₂ -System (Prozessstudie Labradorsee)	DFG-SFB460	Prof. Send	01.07.1996 - 31.12.2006	919.884,65
4	TP A4	Schwankungen von Wassermassenverteilung und Zirkulation im westlichen Becken des subpolaren Nordatlantiks	DFG-SFB460	Prof. Böning / Dr. Fischer	01.07.1996 - 31.12.2006	1.902.314,77
5	TP A6	Modellierung thermohaliner Prozesse im subpolaren Nordatlantik und ihrer Bedeutung für dekadische Zirkulationsschwankungen	DFG-SFB460	Prof. Böning / Prof. Willebrand	01.07.1996 - 31.12.2006	1.002.585,03
6	TP A7	Variabilität von Wassermassentransformation und Zirkulation im zentralen und östlichen subpolaren Nordatlantik	DFG-SFB460	Prof. Rhein / Prof. Böning	01.01.2003 - 31.12.2006	353.500,00
7	TP A8	Rolle der Wirbelfelder für die Zirkulation im Nordatlantik und ihre Variabilität	DFG-SFB460	PD Dr. Brandt / Dr. Stramma	01.01.2003 - 31.12.2006	470.400,00
8	TP B1	Wechselwirkung zwischen Ozean und Atmosphäre in verschiedenen Zeitskalen Dynamik thermohaliner Zirkulationsschwankungen, Kiel	DFG-SFB460	Prof. Dullo	01.07.1996 - 31.12.2006	945.295,41
9	TP B3	Zwischenjährliche bis dekadische Schwankungen der CO ₂ -Aufnahme im Nordatlantik	DFG-SFB460	Prof. Willebrand / PD Dr. Oschlies	01.07.1996 - 31.12.2006	985.182,15
10	TP B4	Nachwuchsgruppe "Untersuchung globaler Klimaschwankungen auf der Zeitskala von 100 bis 10000 Jahren" (Timmermann)	DFG-SFB460	Dr. Timmermann	01.11.2000 - 31.12.2006	864.745,24
11	TP B5	Einfluss der thermohalinen Zirkulation auf die Atmosphäre über dem nördlichen Atlantik	DFG-SFB460	Prof. Ruprecht / Prof. Macke	01.01.2003 - 31.12.2006	268.400,00
12	TP B6	Dynamik thermohaliner Zirkulationsschwankungen, Kiel	DFG-SFB460	Prof. Latif	01.06.2003 - 31.12.2006	447.988,00
13	TP Z	Dynamik thermohaliner Zirkulationsschwankungen, Kiel	DFG-SFB460	Prof. Willebrand / Prof. Böning	01.07.1996 - 31.12.2006	2.177.551,61
14	TP A6		DFG-SFB574	Schmidt	01.01.2005 - 30.06.2008	86.400,00
15	TP B2	Fluid-, Sediment- und Methanumsatz an konvergenten Plattenrändern: Die Rolle der Schlammdiapire und Schlammvulkane	DFG-SFB574	Dr. Brückmann	01.01.2001 - 30.06.2008	283.462,00
Total Budget over the complete funding period						11.607.297,27

¹ Total Budget over the complete funding period

Projects - Research Division 2: Marine Biogeochemistry (without SFB)

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
1	AN 193/2-1	Regional variability in the abundance, type and activity of large partaicle in the mesopelagic (Zwilight) Zone of the North Atlantic and its link to epipelagic biochemical provinces (M60/5)	DFG	Dr. Antia	01.09.2005 - 31.08.2006	15.987,00
2	Ba 1990/3-1, Meteor 60/5	Molekulargenetische Charakterisierung der Mikroorganismen der N2O-Bildung im Nordatlantik	DFG	Dr. Bange	01.08.2004 - 31.07.2005	24.661,20
3	BA 1990/7-1, N2O im Nordatlantik	Molekulargenetische Charakterisierung der Mikroorganismen der N2O Bildung im Nordatlantik	DFG	Dr. Bange	01.09.2005 - 30.11.2006	29.865,00
4	Ba 1990/7-2, N2O im Nordatlantik	N2O om Nordatlantik	DFG	Dr. Bange	01.09.2006 - 31.08.2007	30.150,00
5	BA1990/6-1, Poseidon 2005	Biogeochemische Prozessstudie im Auftriebsgebiet von Mauretaniien	DFG	Dr. Bange	01.01.2005 - 31.12.2005	19.479,00
6	Casiopeia	FB08: Evaluation of the Ca Isotope System in Carbonate Polymorphs as a new Proxy for Seawater Temperature and Secular of Ca Concentration and Fractionation throughout Earth History	DFG	Prof. Eisenhauer	15.11.2005 - 14.11.2007	275.560,00
7	CR 145/4-1	Can acidic polysaccharides exuded by diatoms function as iron ligands, increasing the iron availability for diatoms ?	DFG	Dr. Croot	01.09.2003 - 31.08.2005	31.269,00
8	CR 145/5-1, Fe Spezies	Interconversion of Fe species in the Southern Ocean: Kinetic and thermodynamic properties of iron complexes in seawater	DFG	Dr. Croot	01.08.2004 - 31.07.2005	36.350,00
9	Cr 145/5-2 Fe Spezies 2	Interconversion of Fe species in the Southern Ocean: Kinetic and thermodynamic properties of iron complexes in seawater	DFG	Dr. Croot	01.07.2005 - 30.06.2005	33.850,00
10	Cr 145/7-1	Dust derived metal spectation in the Atlantic	DFG	Dr. Croot	01.09.2005 - 31.08.2006	17.250,00
11	Ei 272/14-1 MAGISO	MAGISO: Mnesiumisotope (26Mg) als Proxy für abiogene und biogene Calcificationsprozesse und für die diechemische Evolution der Ozeane im Phanerozoikum	DFG	Prof. Eisenhauer	01.04.2003 - 31.03.2005	128.600,00
12	Ei 272/14-2, MAGISO 2	Magnesiumisotope (d26Mg) als Proxy für abiogene und biogene Calcificationsprozesse und für die chemische Evolution der Ozeane im Phanerozoikum	DFG	Prof. Eisenhauer	01.03.2005 - 28.02.2006	64.800,00
13	Ei 272/15-1, Ridge (Ocean Crust)	Ridge (Ocean Crust) - ESL. The Role of High- and Low-Temperature Ocean Crust Alteration for the Marine Calcium Budget	DFG	Prof. Eisenhauer	01.11.2003 - 30.10.2005	67.270,00
14	Ei 272/15-2, CARLA	The Role of High- and Low-Temperature Ocean Crust Alteration for the Marine Calcium Budget	DFG	Prof. Eisenhauer	01.11.2005 - 31.03.2007	34.600,00
15	Ei 272/16-1, SENECA	Die Abhängigkeit der Strontiumisotopenfraktionierung (delta88Sr) bei der kontrollierten Präzipitation von Calciumcarbonat	DFG	Prof. Eisenhauer	01.04.2004 - 31.01.2006	58.800,00
16	Ke 466/1-1, RIDGE	Methan transport to the ocean from the Mid-Atlantic Ridge, 2°S to 11°S	DFG	Dr. Keir	01.05.2004 - 30.04.2006	218.400,00
17	Lo 360/8-1 DFG-Senatskommission	Besetzung Sekretariat der DFG-Senatskommission	DFG	Prof. Lochte	01.01.2005 - 31.12.2006	121.000,00

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
18	MI 736/1-1, Marine nitrogen isotope	Isotopic fractionation of dissolved nitrogen by marine phytoplankton and cyanobacterial uptake	DFG	Mills	01.01.2005 - 31.08.2005	70.550,00
19	Pe 565/5-3	Adaption strategies of Antarctic phytoplankton to persistens iron limitation	DFG	Dr. Peeken	01.08.2005 - 31.07.2006	42.600,00
20	RI 598/2-1, Carbon Partitioning	Temperatur-dependency of carbon partitioning between dissolved and particulate organic matter in a pelagic new production system	DFG	Prof. Riebesell	01.01.2005 - 15.03.2007	139.774,00
21	RO 2138/4-2 Solas Biologie (M55)2	Assessing the diversity and activity of diazotrophs in the tropical and Subtropical Atlantaic	DFG	Prof. LaRoche	06.09.2004 - 05.09.2005	48.600,00
22	RO 2138/5-1	Characterization of the diazotroph communities in the Subtropical North Atlantic (M60/5)	DFG	Prof. LaRoche	01.09.2005 - 31.12.2006	21.550,00
23	Wa 1434/4-1, Bromoform-emissionen	Ozeanische Bromoformemissionen und ihre Variabilitäten, sowie die Auswirkungen dieser stärksten Quelle organischen Broms auf die Atmosphäre	DFG	Prof. Wallace	01.02.2004 - 31.01.2006	128.900,00
24	WE 992/25-8 Koordinations-assistenz	für das Sekretariat der Senatskommission	DFG	Prof. Lochte	01.10.2004 - 28.02.2005	26.335,77
25	03 F 0350 B, FS Eisrand	Koordination der wissenschaftlichen Baubetreuung des eisrandgängigen Forschungsschiffes; Vorhaben: Wissenschaftliche Baubetreuung als Koordinator des Wissenschaftlich-Technischen Fachausschusses (WTZ) des neuen mittelgroßen Eisrand-Forschungsschiffes	BMBF1	Dr. v. Bröckel	01.06.2001 - 31.12.2005	119.593,88
26	03 G 0600 D, Comet TP 1	Verbundprojekt:COMET:Kontrollfaktoren der Methanflüsse und ihrer Klimarelevanz in marinen gashydrathaltigen Ökosystemen; Leitantrag; Vorhaben: Untersuchung und Modellierung der Steuerparameter für die Freisetzung und den Umsatz von Methan aus "cold seeps"	BMBF1	Dr. Pfannkuche	01.01.2005 - 29.02.2008	889.918,00
27	03 G 0600 D, Comet TP 2	Verbundprojekt:COMET:Kontrollfaktoren der Methanflüsse und ihrer Klimarelevanz in marinen gashydrathaltigen Ökosystemen; Leitantrag; Vorhaben: Untersuchung und Modellierung der Steuerparameter für die Freisetzung und den Umsatz von Methan aus "cold seeps"	BMBF1	Dr. Rehder	01.01.2005 - 29.02.2008	184.206,00
28	03 G 0600 D, Comet TP 3/Charon	Verbundprojekt:COMET:Kontrollfaktoren der Methanflüsse und ihrer Klimarelevanz in marinen gashydrathaltigen Ökosystemen; Leitantrag; Vorhaben: Untersuchung und Modellierung der Steuerparameter für die Freisetzung und den Umsatz von Methan aus "cold seeps"	BMBF1	Prof. Eisenhauer	01.01.2005 - 28.02.2008	510.557,00
29	03 G 0600 D, Comet TP 4	Verbundprojekt:COMET:Kontrollfaktoren der Methanflüsse und ihrer Klimarelevanz in marinen gashydrathaltigen Ökosystemen; Leitantrag; Vorhaben: Untersuchung und Modellierung der Steuerparameter für die Freisetzung und den Umsatz von Methan aus "cold seeps"	BMBF1	Dr. Keir	01.01.2005 - 29.02.2008	297.831,00

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
30	03 G 0600 D, Comet TP 5	Verbundprojekt:COMET:Kontrollfaktoren der Methanflüsse und ihrer Klimarelevanz in marinen gashydrathaltigen Ökosystemen; Leitantrag; Vorhaben: Untersuchung und Modellierung der Steuerparameter für die Freisetzung und den Umsatz von Methan aus "cold seeps"	BMBF1	PD Dr. Wallmann	01.01.2005 - 29.02.2008	191.317,00
31	03 G 0600 D, Comet TPKoordination	Verbundprojekt:COMET:Kontrollfaktoren der Methanflüsse und ihrer Klimarelevanz in marinen gashydrathaltigen Ökosystemen; Leitantrag; Vorhaben: Untersuchung und Modellierung der Steuerparameter für die Freisetzung und den Umsatz von Methan aus "cold seeps"	BMBF1	Dr. Linke	01.01.2005 - 29.02.2008	244.158,00
32	METRO TP5 03G0604B	Verbundprojekt: GHIT: METRO; Vorhaben: Teilprojekte 4 und 5: Methan und Methanhydrate im Schwarzen Meer: Strukturelle Analyse, Quantifizierung und Impact eines dynamischen Methan-reservoirs	BMBF1	PD Dr. Wallmann	01.10.2004 - 31.12.2007	297.097,00
33	SO 177 -SIGER, 03G0177A	SO 177: SIGER - Sino-German Cooperative Project, South Cina Sea: Distribution, Formation and Effect of Mehtane & Gas Hydrate on the Environment	BMBF1	Prof. Suess	01.05.2004 - 31.08.2005	111.392,00
34	03 F 0384 1	"Eisrandfähiges Forschungsschiff: Neubau eines mittelgroßen eisrandfähigen Forschungsschiffes" hier: wissenschaftliche und fachliche Betreuung und Unterstützung beim Controlling-Berichtswesen u. Unterstützung des IOW bei Antagstellung eines Anschlussproj.	BMBF2	Dr. v. Bröckel	15.12.2002 - 30.06.2006	33.250,00
35	018419 -OOMPH	Organics over the Ocean Modifying Particles in both Hemispheres	EU	Prof. Lochte, Prof. Riebesell	01.09.2005 - 31.08.2008	339.000,00
36	CarboOcean TP 4, 511176-2	Marine carbon sources and sinks assessment	EU	Prof. Wallace	01.01.2005 - 31.12.2009	204.100,00
37	CarboOcean TP 5, 511176-2	Marine carbon sources and sinks assessment	EU	Prof. Körtzinger	01.01.2005 - 30.09.2005	207.500,00
38	CarboOcean TP 8, 511176-2	Marine carbon sources and sinks assessment	EU	Dr. Rehder	01.01.2005 - 31.12.2009	154.800,00
39	CarboOcean TP 1 511176-2	Marine carbon sources and sinks assessment	EU	Prof. Wallace / Körtzinger	01.01.2005 - 31.12.2009	241.100,00
40	CarboOcean TP 6, 511176-2	Marine carbon sources and sinks assessment	EU	Prof. LaRoche	01.01.2005 - 31.12.2009	48.200,00
41	CarboOcean TP 7 511176-2	Marine carbon sources and sinks assessment	EU	Prof. Riebesell	01.01.2005 - 31.12.2009	230.000,00
42	CRIMEA TP 2 EVK3- CT2002-00162 CRIMEA	CRIMEA - Contribution of high-intensity gas seeps in the Black Sea of methane emission to the atmosphere	EU	Dr. Greinert	01.02.2003 - 31.01.2006	222.172,00
43	Diatomics LSH-CT- 2004-512035	Understanding Diatom Biology by Functional Genomics Approaches	EU	Prof. LaRoche / Prof. Riebesell	01.01.2005 - 31.12.2007	202.080,00

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
44	ESONIM	Integrating and strengthening the European Research Area European Seafloor Observatory Network Implementation Model	EU	Dr. Pfannkuche	01.11.2005 - 30.04.2007	34.560,00
45	EURO OCEANS TP1	EUROPEAN Network of excellence for Ocean Ecosystems ANALYSIS (EUR-OCEANS)	EU	Prof. Lochte	01.01.2005 - 31.12.2008	148.500,00
46	GOCE-CT-2005-511234- 1 HERMES	Hotspot Ecosystem Research on the Margins Seas (HERMES)	EU	Dr. Pfannkuche	01.04.2005 - 31.03.2009	537.240,00
47	SEA-TEST (InterMareC) INTERREG	Einrichtung einer Dauerstation in der Eckernförder Bucht (Glasfasertechnologie)	EU	Dr. Linke	01.11.2005 - 30.09.2007	55.000,00
48	Deutsch-israelische Koop.	Personalmittel aus BMBF-Bewilligung	AWI	Prof. Riebesell	01.07.2004 - 30.06.2006	81.180,00
49	INTERREG IIIA/BI	EU-Gemeinschaftsinitiative INTERREG IIIA f. d. Projekt Biologische Ozeanographie (Aufbau eines gemeinsamen Studienprogramms)	FYNS AMT	Prof. Lochte	01.01.2003 - 31.12.2005	404.750,00
50	Bioassay Sampler		Uni Essex	Prof. LaRoche	05.09.2005 - 20.12.2005	7.500,00
						7.683.202,85

Projects - Research Division 2: Marine Biogeochemistry (SFB only)

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
1	TP A2	Tiefe Konvektion - Variabilität und Relevanz für das marine CO ₂ -System (Prozessstudie Labradorsee) Dynamik thermohaliner Zirkulationsschwankungen, Kiel	DFG-SFB460	Prof. Körtzinger	01.07.1996 - 31.12.2006	919.884,65
2	TP A5	Aufnahme und Transportwege des anthropogenen CO ₂ Dynamik thermohaliner Zirkulationsschwankungen, Kiel	DFG-SFB460	Prof. Wallace / Grootes	01.07.1996 - 31.12.2006	1.208.997,98
3	TP A3/B5	Sedimentdiagenese an aktiven Kontinentalrändern: Akkumulation, Abbau und Export von Volatilen	DFG-SFB574	PD Dr. Wallmann	01.01.2001 -	641.635,00
4	TP B3	Fluid-, Sediment- und Methanumsatz an konvergenten Plattenrändern: Die Rolle der Schlammdiapire und Schlammvulkane	DFG-SFB574	Dr. Linke	01.01.2001 -	493.624,00
5	TP B6	Fluid sources timing of release and dcarbon inventory	DFG-SFB574	Prof. Suess	01.07.2004 - 30.06.2008	116.000,00
6	TP C5	Der Volatilen- und Fluidumsatz an Subduktionszonen und seine Wirkungen auf die globalen Kreisläufe klimarelevanter Elemente und Substanzen	DFG-SFB574	PD Dr. Wallmann	01.01.2001 - 30.06.2008	334.871,50
Total Budget over the complete funding period						3.715.013,14

¹ Total Budget over the complete funding period

Projects - Research Division 3: Marine Ecology (without SFB)

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
1	Ab 289/1-1, FRISCA	Untersuchungen Meereskunde, Trophische Interaktionen, Experimentelle Ökologie, Pelagische Ökosysteme	DFG	Dr. Aberle-Malzahn	01.10.2005 - 30.09.2006	25.800,00
2	Ba 1990/3-1, Meteor 60/5	Molekulargenetische Charakterisierung der Mikroorganismen der N2O-Bildung im Nordatlantik	DFG	Prof. Imhoff	01.08.2004 - 31.07.2005	16.440,80
3	CL 126/3-1, RECONN2	Resolving Trophodynamic Consequences of Climate Change (RECONN2): Match-mismatch between Secondary and Tertiary Production in the Baltic Sea	DFG	Dr. Clemmesen-Bockelmann	01.11.2004 - 31.10.2006	91.950,00
4	HI 848/1-1	"Experimenteller Test der Effekte von Diversität auf die Funktion von marinen Ökosystemen - der Einfluss von Dispersion und multiplen Störungen"	DFG	Prof. Hillebrand	01.06.2003 - 31.05.2005	60.896,00
5	IM 12/12-1	Schwerpunktprogramm "Vom Mantel zum Ozean: Energie-, Stoff- und Lebenszyklen an Spreizungsachsen" Thema: "Microbial diversity and key activities at hydrothermal habitats of the Mid-Atlantic Ridge"	DFG	Prof. Imhoff	01.11.2003 - 31.10.2005	82.800,00
6	IM 12/14-1, Tectono Magmatic Evolution M64/1	Tectono-magmatic evolution and fluid geochemistry and biology in hydrothermal vent fields of the Mic-Atlantic between 4 an 11°Sm (M64/1)	DFG	Prof. Imhoff	01.08.2004 - 31.01.2005	3.000,00
7	Pi 203/11-1	"Der Einfluss von Umweltfaktoren auf die mikrochemische Zusammensetzung der Statolithen von Sepia officinalis (Cephalopoda: Sepioidea)"	DFG	Dr. Piatkowski	01.03.2003 - 28.02.2005	57.080,00
8	PI 203/11-3 Tintenfisch-Statolithen 2	Der Einfluss von Umweltfaktoren auf die mikrochemische Zusammensetzung der Statolithen von Sepia officinalis (Cephalopoda: Sepioidea)	DFG	Dr. Piatkowski	01.03.2005 - 28.02.2006	49.447,00
9	SO 145/23-1, Baltic Sea Plankton	Match and mismatch between phyto- and zooplankton during spring succession: an experimental analysis with Baltic Sea Plankton	DFG	Prof. Sommer	01.11.2004 - 31.10.2006	147.460,00
10	SO 145/24-1, Meta-Analysis	Co-ordination and meta-analysis of seasonal patterns	DFG	Prof. Sommer	01.11.2004 - 31.12.2007	113.500,00
11	SO 145/25-1, COPEPODEN	Nahrungswahl mariner Copepoden: Besteht ein Switch-Mechanismus zwischen Phytoplankton und Protozoen?	DFG	Prof. Sommer	01.01.2005 - 31.12.2006	79.880,00
12	SO 145/26-1 Diversität+Prozesse in Ökosystemen 2	Ursachen und Auswirkungen genetischer, taxonomischer und funktioneller Diversität in marinen Ökosystemen Forts. Zu Wo 818/1-2	DFG	Prof. Sommer	11.08.2005 - 10.08.2006	39.966,00
13	Su 238/1-2 Ocean Gateways	Forscherguppe: Impact of Gateways of Ocean Circulation, Climate, and Evolution Teilprojekt C1" Influence of ocean gateways on the evolution of marine species: A molecular genetic approach	DFG	Dr. Süling	01.08.2003 - 31.07.2005	88.500,00
14	WA 708/10-1	Interaktionen in Gradienten: Wechselwirkungen zwischen Salinität, Schalenstärke der Miesmuschel und Fraßverhalten brachyurer Krebse.	DFG	Prof. Wahl	20.08.2003 - 19.08.2005	86.300,00

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
15	Wa 708/10-2, Räuber-Beute Beziehung	Interaktionen in Gradienten: Wechselwirkungen zwischen Salinität, Schalenstärke der Miesmuschel und Fraßverhalten brachyurer Krebse.	DFG	Prof. Wahl	20.08.2005 - 19.08.2006	40.600,00
16	Wa 708/13-1, Antifoulingsystem der Miesmuschel	Antifoulingsystem der Miesmuscheln (Mytilidae): Einzelkomponenten, Synergismus und regionale Optimierung	DFG	Prof. Wahl	01.04.2004 - 31.03.2006	16.900,00
17	WO 818/1-2	"Ursachen und Auswirkungen genetischer, taxonomischer und funktioneller Diversitäten in marinen Ökosystemen"	DFG	Dr. Worm	05.05.2003 - 04.05.2005	305.987,04
18	03 F 0356 B	"Nutzung von Rifforganismen: Ökologie und Nutzung von Rifforganismen im Golf von Aqaba, Rotes Meer - Kreislaufanlage für die Aufzucht und Haltung."	BMBF1	Dr. Waller	01.04.2002 - 31.08.2005	108.739,00
19	Biotech Marin II, 03F0414B	Verbundprojekt: Marine Naturstoffe V: BIOTEC MARIN II; Vorhaben: Biotechnologisches Potential und molekulargenetische Analyse Schwammassoziiert Mikroorganismen, Bakterien und Pilze	BMBF1	Prof. Imhoff	01.01.2005 - 31.12.2007	438.738,00
20	GLOBEC II TP 1 , 03F0418B	Verbundprojekt: GLOBEC II; Vorhaben: Verteilung, Wachstum und Sterblichkeiten von Fischbrut unter dem Einfluß physikalischer Prozesse und gekoppelte Modellierung der Trophodynamik und Advektion	BMBF1	Prof. Schnack	01.03.2005 - 31.12.2007	589.481,00
21	Minos Plus 0329946D	Verbundvorhaben MINOS plus: Seehunde in (SIS) - Untersuchungen zur räumlichen und zeitlichen Nutzung der Nordsee durch Seehunde im Zusammenhang mit der Entwicklung von Offshore-Windenergieanlagen (WEA) TP 6	BMBF1	Prof. Adeling	01.06.2004 - 30.04.2007	530.385,00
22	04HS065 Eel Trace- der Europäische Aal	Habitatselektion des Europäischen Aals	BMBF2	Prof. Hanel	01.10.2005 - 31.12.2008	415.160,00
23	Belastung der Küstengewässer, 900-410	Belastung der Marinestützpunkte/Küstengewässer durch eingeschleppte marine Arten	BMBF2	Prof. Wahl	01.06.2005 - 30.11.2007	188.700,00
24	D/04/04378 PPP Schweden	Projektbezogener Personenaustausch mit Schweden - B. Matthiessen	DAAD	Prof. Hillebrand	01.01.2004 - 31.12.2005	7.000,00
25	Pers. Austausch India-Germany, Imhoff/D04/34105	Projektbezogener Personenaustausch mit Indien/India-Germany Joint Research Collaboration 2004/5	DAAD	Prof. Imhoff	01.06.2004 - 31.05.2006	19.676,00
26	AMBI-Nordsee 06.08.46-84	Anpassung des Ambi-Indexes an die Erfordernisse der WRRL und die zugrundeliegende Artenliste mit ihren Zeigerwerten den Gegenheiten der Nordsee im Bereich des Wattenmeeres.	LANU	Prof. Wahl	01.04.2005 - 31.12.2005	17.000,00
27	Fucus-Ökologie I 0608.46-83	Abhängigkeit der Photosyntheseleistung, des Wachstums und des Überlebens von Fucus vesiculosus von Salzgehalt, Licht und Tiefe	LANU	Prof. Wahl	01.04.2005 - 31.12.2006	31.000,00
28	Künstliche Riffe 0606.46-81	Untersuchungen des künstlichen Steinriffs bei Falckenstein	LANU	Prof. Wahl	01.06.2005 - 30.11.2005	19.300,00

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
29	Langzeit Algenmonitoring 131-0608-46-68	Betreuung der für das LANU eingerichteten Ostsee-Überwachungsstellen in Damp, in der Orther Bucht und nahe Maasholm	LANU	Prof. Wahl	01.12.2004 - 30.11.2006	24.000,00
30	LASHPplus 0608.46-80	Einrichtung von zwei Wasserkörpern der Ostsee Monitoringstationen für Hartbodenflora und -fauna	LANU	Prof. Wahl	01.04.2005 -	15.000,00
31	Makrozoobenthos Ostsee	wissenschaftlicher Test mit dem von der Fa. MARILIM entwickelten Bewertungsverfahren für das küstennahe Ostseebenthos Schleswig-Holstein	LANU	Dr. Rumohr, H.	01.03.2005 - 31.12.2005	18.000,00
32	Meiofauna-Bewertung 0608.46-82	Sichtung wissenschaftlicher Literatur nach Bewertungsverfahren für Küstengewässer	LANU	Prof. Wahl	01.04.2005 - 31.10.2005	16.500,00
33	Plaktonproben 2005	Mikroskopiische Analyse von 200 Plaktonproben und Abgabe der Originalzählprotokolle	LANU	Prof. Sommer	01.06.2005 - 30.11.2005	15.000,00
34	KiWIZ	Zentrum für Marine Wirkstoffforschung im IFM-GEOMAR: Stärkung der Position mariner Biotechnologien in Schleswig-Holstein.	MBWFK	Prof. Imhoff	01.10.2005 - 31.12.2007	2.700.000,00
35	ECASA 00654 (SPP8)	Ecosystem Approach for Sustainable Aquaculture	EU	Prof. Schnack	01.12.2004 - 30.11.2007	166.800,00
36	EURO OCEANS TP2	EUropean Network of excellende for Ocean Ecosystems ANalysis (EUR-OCEANS)	EU	Prof. Sommer	01.01.2005 - 31.12.2008	8.500,00
37	EVR1-CT2002-2001; EUROCAT	The Catalogue of Life: Biodiversity Resource and e-Science Gateway (thematic network)	EU	Dr. Froese	01.02.2003 - 31.01.2006	27.120,00
38	GOCE-CT2003-505446, MARBEFF	Marine Biodiversity and Ecosystem Functioning	EU	Dr. Piatkowski	01.02.2004 - 31.01.2009	101.444,00
39	ICA-CT-2001-10025	"Zero discharge Aquaculture by Farming in Integrated Recirculating Systems in Asia" (ZAFIRA)	EU	Dr. Waller	01.01.2002 - 31.12.2005	135.535,00
40	INCOFISH (003739)	Integrating Multiple Demands on Coastal Zones with Emphasis on Aquatic Ecosystems and Fisheries (INCOFISH), 6. RP.	EU	Dr. Froese	01.05.2005 - 30.04.2008	1.127.800,00
41	Meerbarbe (FishTrace)	Improve red mullets (Mullus surmuletus) population differentiation in European waters using FishTrace	EU	Prof. Hanel	01.09.2005 - 31.08.2006	7.000,00
42	PROTECT 513670 SSP8	Marine Protected areas as a tool for ecosystem conservation and fisheries management Programm: Integrated and strengthening the European Research Area	EU	Prof. Schnack	01.01.2005 - 30.06.2008	124.210,00
43	Q5CA-2002-00962, CEPHSTOCK	"Cephalopods stocks in European waters: review, analysis, assessment and sustainable management" CEPHSTOCK	EU	Dr. Piatkowski	01.10.2002 - 30.09.2005	20.835,00
44	Q5RS-2002-00813, CODYSSEY	"Cod spatial dynamics and vertical movements in european waters and implication in fisheries management"	EU	Prof. Schnack	01.10.2002 - 30.09.2006	189.407,00
45	SSP8-CT-2003-502482 BECAUSE	Critical Interactions BEtween Species and their Implication for a PreCAUTIONary FISheries Management in a variable Environment-a Modelling Approach	EU	Prof. Schnack	01.03.2004 - 28.02.2007	403.870,00
46	Untoxische Repellien	Unterstützung bei der Identifizierung von Substanzen aus marinen Organismen zur Verhinderung der Adhäsion von Mikroorganismen.	Fa. Henkel	Prof. Wahl	01.05.2005 - 30.04.2007	126.000,00

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
47	ausl. Gastwissenschaftler	Prof. Dr. Ocky Karna Radjasa Georg Forster-Forschungsstipendium	AvH	Prof. Imhoff	01.07.2004 - 30.06.2005	31.000,00
48	Antifraßverteidigung	Kontrollfaktoren des Makroalgenvorkommens in deutschen in deutschen Küstengewässern: Regulation der Antifraßverteidigung und Klimaveränderung	DBU	Prof. Wahl	01.07.2004 - 30.06.2005	3.000,00
49	Stipendium A. Bischoff	DBU Stipendium für Adrian Bischoff. Thema: " Reduzierung der nicht genutzten Feststofffrachten geschlossener Aquakultur-Kreislaufsysteme durch detritivore Organismen "	DBU	Dr. Waller	01.01.2004 - 31.12.2006	4.000,00
50	GAME 103-01	GAME -Aufbau eines Studierendenaustauschprogramms, das im Rahmen des internationalen Forschungs-Verbundprojektes GAME des Instituts für Meereskunde an der Universität Kiel verankert werden soll.	Stiftung Mercator	Prof. Wahl	24.05.2002 - 23.05.2005	520.000,00
51	GAME II 04-204	GAME -Aufbau eines Studierendenaustauschprogramms, das im Rahmen des internationalen Forschungs-Verbundprojektes GAME des Instituts für Meereskunde an der Universität Kiel verankert werden soll.	Stiftung Mercator	Prof. Wahl	01.10.2005 - 31.01.2009	582.639,00
52	ONCOTEC	Arbeiten zur Anzucht und Optimierung von Pilzkulturen zur Produktion von SoorbA und Derivaten	Fa. Oncotec	Prof. Imhoff	-	108.000,00
53	INTERREG IIIA	"Die Reduzierung des Umwelteinflusses von Markulturen"	FYNS AMT	Dr. Waller	01.08.2003 - 31.01.2007	75.000,00
54	I-732-54.8/2002, Phytoplankton grow	Phytoplankton growth and mortality: The role of grazing in the cycling of nutrients in the Northern Red Sea TECHNIKER!!!	GIF	Prof. Sommer	01.01.2004 - 31.12.2006	96.705,00
55	VII 302, HaLaMi	"Isolierung und Charakterisierung neuer Wirkstoffe aus Laminaria saccharina, Halichondria panicea und assoziierten Mikroorganismen"		Prof. Imhoff	11.07.2002 - 30.11.2005	513.061,04
56	Untersuchung zur Ozontechnik	Ozone analysis in seawater	Sonstige	Prof. Hanel	01.08.2005 -	6.945,00
¹ Total Budget over the complete funding period						10.839.056,88

Projects - Research Division 4: Dynamics of the Ocean Floor (without SFB)

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
1	BI 404/2-2, Ausw. MARGASCH PBS M52/1	Auswertung-M52/1-OBS: Marine Gashydrate im Schwarzen Meer: Aufbau und Struktur sensibler Methanspeicher	DFG	Dr. Bialas	01.08.2004 - 31.07.2005	43.185,00
2	De 572/13-1, Fracture Zone	Die nördliche Grenze des Island-Plumes: Petrologie und Vulkanologie der Tjörnes "Fracture Zone"	DFG	Prof. Devey	01.07.2004 - 30.06.2005	14.326,77
3	De 572/14-2, Grakkel Trace	Die Petrogenese der Laven vom arktischen Gakkel-Rücken: Magmenproduktion an der am langsamsten spreizenden Plattengrenze der Erde bestimmt.	DFG	Prof. Devey	01.07.2004 - 30.06.2005	9.181,62
4	DE 572/20-1, M62 Koordination	Ozeanographie, Geodynamik und Vulkanismus im tropischen/ subtropischen Atlantik M62 Koordination	DFG	Prof. Devey	01.06.2004 - 30.06.2005	361.516,36
5	De 572/22-1, Ridge SPP 1144	Koordination des Schwerpunktprogramms 1144 " From the mantle to the ocean"	DFG	Prof. Devey	01.08.2004 - 31.01.2006	461.417,00
6	De 572/22-2, Ridge Koordination	Coordination of the Priorit Program 1144, "From the mantle to the ocean"	DFG	Prof. Devey	01.10.2005 - 30.09.2007	995.858,00
7	De 572/25-1, MARGEO (TOPOC)	The geology and structure of the Mid-Atlantic Ridge near Ascension Island	DFG	Prof. Devey	01.10.2005 - 31.01.2008	80.250,00
8	Fr 947/9-1, Pyroklastische Ströme / Montserrat	Rheologie, Transportmechanismen und Separationsprozesse pyroklastischer Ströme	DFG	PD Dr. Freundt	01.06.2003 - 31.05.2005	74.100,00
9	FR 947/9-2, Pyroklastische Ströme 2	Rheology, transport and separation mechanisms of pyroclastic flows	DFG	Dr. Freundt	01.06.2005 - 30.11.2006	64.604,00
10	GR 1964,7-1, M62- Charisma	Auswertung M62/3: Tiefenseismische Untersuchungen des Hot Spot-Vulkanismus der Kapverden Schwelle: Untersuchungen zur Mechanik und Isotapie der Lithosphäre und Plumdynamik	DFG	Dr. Grevemeyer	01.10.2005 - 30.09.2006	16.152,00
11	GR 1964/2-2 COIN	Hydrothermalismus und sein Einfluss auf die Entwicklung seismischer Attribute der Ozeankruste, Auswertunge seeseismischer Daten von der Ostflanke des Juan de Fuca- Spreizungszentrums	DFG	Dr. Grevemeyer	01.11.2004 - 31.10.2005	2.500,00
12	GR 964/8-2 M60/2 Costmar 2	Auswertung M60/2: Geophysikalische Untersuchungen zur Seismotektonik, Krusten- und Mantelstruktur im Bereich eines propagierenden Rückensegments am Mittelatlantischen Rücken bis 21.5° N	DFG	Dr. Grevemeyer	01.09.2005 - 30.11.2006	32.350,00
13	Ha 2100/9-1, SEPIOIDEA	Der Einfluss von Umweltfaktoren auf die mikrochemische Zusammensetzung der Statolithen von Sepia officinalis	DFG	PD Dr. Hansteen	31.10.2003 - 30.09.2005	11.880,00
14	He 3512/2-1 Gas hydrat quantification	Development of a combined geochemical-geophysical approach for quantification of regional submarine gas hydrate inventories	DFG	Dr. Hensen	15.11.2005 - 14.11.2006	65.800,00
15	Ho 1833/12-2, New Zealand Volcanism	The Origin of Intraplate Volcanism in New Zealand	DFG	Prof. Hoernle	01.10.2004 - 30.09.2006	144.500,00

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
16	Ho 1833/13-1, Guatemala fore arc	Age geochemistry of igneous rocks in the Guatemalan forearc: Implications for the early history of the Caribbean Large Igneous Province	DFG	Prof. Hoernle	01.07.2004 - 30.06.2006	140.400,00
17	Ho 1833/14-1, Kamchatka	Mesozoic history of the Hawaiian hotspot and Pacific magmatism preserved in Kamchatka	DFG	Prof. Hoernle	01.07.2004 - 30.09.2005	74.525,00
18	Ho 1833/14-2, Kamchatka 2	Mesozoic history of the Hawaiian hotspot and Pacific magmatism preserved in Kamchatka	DFG	Prof. Hoernle	01.10.2005 - 30.09.2006	69.750,00
19	Ho 1833/15-1 Marie Byrd Seamounts	Ursachen und Auswirkungen des Magmatismus im Bereich der Marie Byrd Seamounts (Amundsenmeer)	DFG	Prof. Hoernle	01.11.2005 - 31.10.2006	28.000,00
20	KO 2961/1-2 SHAPE	Sunda: High Accretion Plate Edge	DFG	Prof. Kopp	01.07.2005 - 31.12.2007	130.782,00
21	KV52/1-2, Ultraslow GARBO	The nature of the lower crust at ultra-slow ridges	DFG	Dr. Kvassness	01.07.2005 - 30.06.2007	42.000,00
22	LA 851/5-1, HYDRAS	High- and low-temperature alteration of ultramafic oceanic crust: Mineralogy, geochemistry and isotope characteristics of hydrothermal systems at the Mid Atlantic Ridge between 14° and 15°N	DFG	Dr. Lackschewitz	01.06.2004 - 31.12.2005	70.316,58
23	La 851/5-2, HYDRAS (TOPIC)	Hoch- und Niedrigtemperatur-Alteration ultramafischer Ozeankruste	DFG	Dr. Lackschewitz	01.10.2005 - 30.09.2006	34.700,00
24	Mo 961/4-1, Kontinentalzerspaltung	Magmatische Prozesse und Kontinentalzerspaltung: Eine integrierte Untersuchung mittels numerischer Modellierung und geophysikalischer Beobachtungen.	DFG	Prof. Morgan	01.09.2003 - 31.08.2005	127.950,00
25	Ra 925/2-1 West-Med	West-Med: Imaging the western mediterranean margins: a key target to understand the interaction between deep and shallow processes	DFG	Dr. Ranero / Prof. Reston	01.03.2005 - 31.08.2008	58.700,00
26	Ra 925/3-1+2, Swathseis	Swath-seismic mapping of European continental margins	DFG	Dr. Ranero / Prof. Reston	01.09.2003 - 31.05.2005	119.400,00
27	Ra 925/5-1 M60/2, COSTMAR-Ausw	Constraining the seismotectonics, crustal, and uppermost mantle structure beneath an actively propagating segment of the Northern Mid-Atlantic Ridge	DFG	Dr. Ranero	01.11.2004 - 30.10.2005	41.992,00
28	Re 873/12-1, M62/4 Asterics Auswertung	M62/4 Asterics-Ausw. (ESL): Geophysical Studies near the Ascension Transform: evolution of Ridge Segmentation and Crustal Structure Auswertung.	DFG	Prof. Reston	01.06.2004 - 31.01.2007	99.600,00
29	Re 873/14-1 M61-2 Porcupine Becken- Ausw.2	as Porcupine Becken als natürliches Labor zur Unterstützung des Symmetrie und der Entwicklung der Extensionstektonik bis hin zum kontinentalen Aufbrechen: Weitwinkelseismik und Krustenstruktur	DFG	Prof. Reston	01.09.2005 - 31.12.2006	61.252,00
30	Schm 250/72-2, Zon. Magmareservoire 2	Zonierte Magmareservoire 2 Entwicklung hochdifferenzierter zonierten Magmareservoiren auf Gran Canaria, Kanarische Inseln	DFG	Prof. Schmincke	01.04.2002 - 28.02.2005	42.229,72
31	Schm 250/81-1, Diatreme	Interne und externe Forcingmechanismen submariner Diatreme am Beispiel eines miozänen Diatremfeldes auf Sizilien	DFG	Prof. Schmincke	01.08.2005 - 31.07.2007	89.614,00
32	Snidvongs, Dr. A 446THA 112/1/05	Aufenthalt Dr. Sindvongs	DFG	Prof. Reston	01.02.2005 - 28.02.2005	540,00

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
33	03 G 0579 B, SUNDAAARC; MERAMEX II	Verbundprojekt KR: SUNDAAARC; Vorhaben: MERAMEX 2 - Seismische Tomographie und refraktionsseismische Strukturuntersuchung der Subduktionszone im Bereich des Hochrisikovulkans Merapi - GEOTECHNOLOGIEN	BMBF1	Prof. Flüh	01.04.2004 - 30.06.2007	132.253,00
34	03 G 0594 E TIPTEQ	Verbundprojekt KR: TIPTEQ; Vorhaben: TIPTEQ 6 - Sonderprogramm GEOTECHNOLOGIEN (ohne Charter).	BMBF1	Dr. Ranero	01.07.2004 - 30.06.2007	432.527,00
35	03G0176A, SO 176 und 179, MERAMEX	SO 176 und SO 179 - KR - MERAMEX	BMBF1	Prof. Kopp	01.05.2004 - 30.06.2005	78.657,00
36	03G0181A SO 181-TIPTEQ	SO 181 TIPTEQ	BMBF1	Prof. Flüh	01.10.2004 - 30.06.2005	133.159,00
37	METRO TP4 03G0604B	Verbundprojekt: GHII: METRO; Vorhaben: Teilprojekte 4 und 5: Methan und Methanhydrate im Schwarzen Meer: Strukturelle Analyse, Quantifizierung und Impact eines dynamischen Methan-reservoirs	BMBF1	Dr. Weinrebe	01.10.2004 - 31.12.2007	341.866,00
38	SO 186 - SeaCause I & II	SO 186 - SeaCause I & II	BMBF1	Prof. Kopp	01.09.2005 - 30.09.2008	361.447,00
39	03G0180 SO 180-CENRAL	SO 180 - CENTRAL	BMBF2	Dr. Weinrebe	01.08.2004 - 31.12.2005	10.390,00
40	TEWS 03TSU01	Tsunami-Frühwarnsystem zur Finanzierung von Ocean-Bottom-Units	BMBF2	Prof. Flüh	01.04.2005 - 31.03.2010	4.164.425,00
41	WTZ Indien IND 02/001 (2)	Internationale Zusammenarbeit in Bildung und Forschung mit Indien	BMBF2	Dr. Grevemeyer	01.01.2005 - 31.12.2005	9.000,00
42	CRIMEA TP 1 EVK2-CT-2002-00162 CRIMEA	CRIMEA - Contribution of high-intensity gas seeps in the Black Sea of methane emission to the atmosphere	EU	Dr. Bialas	01.02.2003 - 31.01.2006	222.172,00
43	EVK3-2001-00067, ORION	Ocean Research by Integrated Observatin Networks	EU	Prof. Flüh	01.05.2002 - 31.10.2005	199.972,00
44	SALVADORE Rita505322	Seismic Analysis of the Lithosphere Via Advanced processing techniques and access to Deep Ocean Recorders during the Exploration	EU	Prof. Flüh	01.12.2004 - 30.11.2008	682.666,00
45	Ausfahrt ARKXIX/4	OBS (Kooperationsvertrag).Gestellung von OBS und OBH	AWI	Prof. Flüh	01.08.2003 -	51.500,00
46	Meteor-HiWi	HiWi-Mittel aus dem Meteor Koordinationstopf Dr. Dirk Hebbeln	Uni Bremen	Prof. Flüh	-	8.620,00
47	GEUS, DK	Ausleihe von 25 OBS	GEUS	Prof. Flüh	01.05.2004 -	101.119,00
48	InterRidge Office	Mitgliederbeiträge	Diverse	Prof. Devey	01.06.2004 - 31.12.2006	210.129,58
						10.749.274,63

Projects - Research Division 4: Dynamics of the Ocean Floor (SFB only)

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
1	TP A1	Submarine Morphologie als Abbild aktiver Kontinentalrand-Prozesse	DFG- SFB574	Prof. Reston / Dr. Weinrebe	01.01.2001 - 30.06.2008	596.128,00
2	TP A2	Wechselwirkungen und Transfer zwischen Ober- und Unterplatte	DFG- SFB574	Prof. Flüh / Rabbal	01.01.2001 - 30.06.2008	1.123.161,00
3	TP A5		DFG- SFB574	Prof. Flüh / Dr. Grevemeyer	01.07.2004 - 30.06.2008	309.700,00
4	TP B2	Fluid-, Sediment- und Methanumsatz an konvergenten Plattenrändern: Die Rolle der Schlammdiapire und Schlammvulkane	DFG- SFB574	Prof. Reston	01.01.2002 - 30.06.2008	283.462,00
5	TP C2	Zum Umsatz magmatischer Volatile und Fluide in Subduktionszonen: Untersuchung vulkanischer Gesteine und ihrer Schmelzeinschlüsse	DFG- SFB574	Prof. Hoernle	01.01.2001 -	639.779,00
6	TP C4	Emissionen durch explosiven Vulkanismus an Subduktionszonen vom Pleistozän bis zur Gegenwart	DFG- SFB574	PD Dr. Freundt	01.01.2001 - 30.06.2008	597.484,00
7	TP N1 (Nachwuchsgruppe)	Nachwuchsgruppe	DFG- SFB574	Dr. Jegen	01.06.2005 - 30.06.2008	1.192.500,00
8	TP Z	Zentrales Verwaltungsprojekt	DFG- SFB574	Prof. Flüh, Prof. Reston	01.07.2004 - 30.06.2008	2.174.427,00
Total Budget over the complete funding period						6.916.641,00

¹ Total Budget over the complete funding period

Projects - Central Facilities (without SFB)

No.	Shorttitle/ Framework	Research Theme	Funding Agency	Lead PI	Funding Period	Budget (EUR) ¹
1	HE 1660/14-1, Leibniz Preis, Prof. Herzig	Leibniz Preis	DFG	Prof. Herzig	01.04.2004 - 17.05.2006	705.790,13
2	He 1660/20-1, ULTRAMAR	The genetic relationship between ultramafic-hosted massive sulfides and their host rocks: petrological, geochemical and isotopic investigations of hydrothermal systems along the Mid-Atlantic Ridge between 14° 45' N.	DFG	Prof. Herzig	01.03.2004 - 30.09.2005	130.773,00
3	Masterstudiengang China 2 CHN 05/Q18	Chinesisch-Deutsche Initiative in Meereswissenschaften - Summer- School-Warming of the Ocean-Qingdao 2005	BMBF1	Prof. Herzig	19.09.2005 - 30.09.2005	7.950,00
4	Masterstudiengang China CHN 04/Q18	Vorbereitung eines gemeinsamen Masterstudienganges Meereswissenschaften unter Beteiligung der Universitäten Kiel und Bremen in Deutschland und der Ocean University of China, Qingdao	BMBF2	Prof. Herzig	01.09.2004 - 31.12.2007	194.395,00
5	Bibliotheksverbund VII14-0257.1.3.8	Bereitstellung für die Aufnahme in den GBV	Sonstige	Schmidt, B	01.09.2005 - 30.09.2005	4.825,00
						1.043.733,13

¹ Total Budget over the complete funding period

4. Ship Statistics & Expeditions

Ship Statistics & Expeditions

Table 4.1: Partners on IFM-GEOMAR research vessels, 2002-2005.

Pool partners are the AWI, the University of Hamburg and the IOW; national partners are all other public research institutes; barter cruises within the 'Tripartite Agreement', with the FWG, and on "LITTORINA" within the technical agreement with 3L-ELAC (since 2003).

Ship	User	Ship days used			
		2002	2003	2004	2005
"POSEIDON"	IFM-GEOMAR	85	61	95	88
	University of Kiel	43	0	0	0
	Pool partners	21	25	21	45
	National partners	29	56	59	25
	Barter cruises	0	45	59	23
	Charter cruises	64	43	40	50
	Transfer cruises	31	33	20	28
	Total ship days	273	263	294	259
"ALKOR"	IFM-GEOMAR	95	63	80	96
	University of Kiel	10	1	18	1
	Pool partners	21	53	57	61
	National partners	4	14	0	0
	Barter cruises	0	0	22	0
	Charter cruises	37	20	15	39
	Student courses	65	58	33	44
	Transfer cruises	0	0	2	4
	Total ship days	232	209	227	245
"LITTORINA"	IFM-GEOMAR	32	54	60	55
	University of Kiel	81	106	96	89
	Pool partners	7	0	0	0
	National partners	9	0	3	9
	Barter cruises	0	16	20	8
	Charter cruises	0	0	0	0
	Student courses	15	40	17	12
	Total ship days	128	216	196	173
"Polarfuchs"	IFM-GEOMAR	71	97	102	123
	University of Kiel	25	21	20	0
	Pool partners	0	0	0	0
	National partners	0	0	3	2
	Barter cruises	0	0	0	1
	Charter cruises	0	0	2	0
	Student courses	7	9	5	0
	Total ship days	103	127	132	126

Table 4.2: Major Expeditions 2005

Period	Vessel	Area	Project	Chief Scientist/PI
06.12.2004-17.01.2005	SONNE SO181/1	South East Pacific	TIPTEQ	Grevenmeyer
06.01.-20.01.	HEINCKE	English Channel	ICES survey	Schnack
18.01.-27.02.	SONNE SO181/2	South East Pacific	TIPTEQ	Flüh
24.01.-02.02.	ALKOR AL251	Baltic Sea	GLOBEC	Haslob
21.03.-07.04.	POSEIDON P320/1	off Mauretania	pre-SOLAS	Bange
04.04.-10.04.	CAP: LOSTALO	East Pacific (Costa Rica)	SFB574	Ernst Flüh
10.04.-28.04.	POSEIDON P320/2	Cape Verde Islands	IP2 of IFM-GEOMAR	Kraus
11.04.-28.04.	ALKOR AL255	Baltic Sea	CODESSEY	Schnack
29.04.-16.05.	L'ATALANTE	Subtrop. North Atlantic	CLIVAR/marin2	Send
02.05.-11.05.	POSEIDON P321	Azorenfront	KIEL276	Müller
06.05.-06.06.	METEOR M64/2	Tropical Atlantic	SPP1144	Laschkewitz
24.05.-21.06.	POLARSTERN ANTXXII/5	Vema Channel	CLIVAR/marin2	Zenk
25.05.-08.06.	ALKOR AL258	Baltic Sea	CODESSEY	Schnack
10.06.-22.06.	ALKOR AL259	North Sea	COMET	Pfannkuche
18.07.-05.08.	ALKOR AL262	Baltic Sea	CODESSEY	Schnack
14.08.-22.08.	POSEIDON P326	North of Iceland	ROV Cherokee	Devey
25.08.-03.09.	POSEIDON P327	Denmark Strait	SFB460	Macrander
23.09.-23.10.	METEOR M66/2	East Pacific Continental margin	SFB574	Rehder
29.09.-07.10.	MATAQUITO	East Pacific (Chile)	TIPTEQ	J. Petersen
08.10.-27.10.	SONNE SO186A	Eastern Indian Ocean	SEACAUSE	Krabbenhöft
26.10.-19.11.	METEOR M66/3	East Pacific Continental margin	SFB574	Brückmann
28.10.-13.11.	SONNE SO186B	Eastern Indian Ocean	GITEWS	Weinrebe
15.11.-28.11.	SONNE SO186C	Eastern Indian Ocean	GITEWS	Flüh
21.11.-12.12.	METEOR M66/4A	East Pacific Continental margin	SFB574	Bialas

5. Publications

5.1 Books (Authorship) (1)

Sommer, U., 2005: Biologische Meereskunde. 2. Aufl. Springer Berlin Heidelberg New York, 412 pp.

5.2 Books (Editorship) (3)

Bauch, H.A., and **Kassens, H.**, (Eds.), 2005: Arctic Siberian Shelf Environments. *Global and Planetary Change*, 48 (1-3), 1-252.

Boebel, O., **Siedler, G.**, and Lütjeharms, J.R.E., (Eds.), 2005: Direct observations of oceanic flow: A tribute to Walter Zenk. *Deep-Sea Res. II*, 52 (3-4), 375-664.

Reijmer, J.J.G., and Immenhauser, A., (Eds.), 2005: Sedimentary Geology Special Issue. Sedimentology in the 21st Century - A Tribute to Wolfgang Schlager. *Sedimentary Geology*, 175, 1-503 (25 manuscripts).

5.3 Book Contributions (80)

Bischoff, A., **Kube, N.**, **Wecker, B.**, and **Waller U.**, 2005: MARE – Marine Artificial Recirculated Ecosystem: Steps towards closed systems for the production of marine organisms. In: Howell, B., and Flos, R., (Eds.): *Lessons from the Past to Optimise the Future*. EAS special publication, 35, 135-136.

Caumette, P., Guyoneaud, R., and **Imhoff, J.F.**, 2005: Genus *Thiolamprovum*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 35.

Froese, R., 2005: Use of FishBase for exploring life-history strategies of fishes. In: Stergiou, K.I., and Bobori, D.V. (Eds.): *3rd Mini Symposium Fish and More*. University Studio Press, Thessaloniki, Greece, 5-8.

Gorlenko, V.M., and **Imhoff, J.F.**, 2005: Genus *Lamprobacter*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 16-18.

Guyoneaud, R., Caumette, P., and **Imhoff, J.F.**, 2005: Genus *Thiorhodococcus*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 37-38.

Hannington, M.D., Ronde, C., and **Petersen, S.**, 2005: Sea-floor tectonics and submarine hydrothermal systems. In: Hedenquist, J.W., Thompson, J.F.H., Goldfarb, R.J., and Richards, J.P., (Eds.): *Economic Geology 100th Anniversary Volume*. Society of Economic Geologists, Littelton, Colorado (USA), 111-141.

Hiraishi, A., and **Imhoff, J.F.**, 2005: Genus *Acidiphilium*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 54-62.

Hiraishi, A., and **Imhoff, J.F.**, 2005: Genus *Porphyrobacter*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 275-279.

Hiraishi, A., and **Imhoff, J.F.**, 2005: Genus *Rhodiferax*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 727-732.

Hiraishi, A., and **Imhoff, J.F.**, 2005: Genus *Rhodoplanes*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 545-549.

Hiraishi, A., and **Imhoff, J.F.**, 2005: Genus *Roseateles*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 746-748.

Hühnerbach, V., Masson, D., Bohrmann, G., Bull, J.M., and **Weinrebe, W.**, 2005: Deformation and submarine landsliding caused by seamount subduction beneath the Costa Rica Continental margin - new insights from high-resolution

sidescan sonar data. In: Hodgson, D.M., and Flint, S.S., (Eds.): *Submarine Slope Systems: Processes and Products*. Geological Society Publishing, London, 195-205.

Imhoff, J.F., 2005: Family Chromatiaceae. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 3-9.

Imhoff, J.F., 2005: Family Ectothiorhodospiraceae. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 41-43.

Imhoff, J.F., 2005: Genus *Allochromatium*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 12-14.

Imhoff, J.F., 2005: Genus *Blastochloris*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 506-507.

Imhoff, J.F., 2005: Genus *Chromatium*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 10-12.

Imhoff, J.F., 2005: Genus *Ectothiorhodospira*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 43-48.

Imhoff, J.F., 2005: Genus *Halorhodospira*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 49-52.

Imhoff, J.F., 2005: Genus *Isochromatium*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 15-16.

Imhoff, J.F., 2005: Genus *Lamprocystis*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 18-20.

Imhoff, J.F., 2005: Genus *Marichromatium*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 20-21.

Imhoff, J.F., 2005: Genus *Phaeospirillum*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 32-33.

Imhoff, J.F., 2005: Genus *Rhabdochromatium*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 23-24.

Imhoff, J.F., 2005: Genus *Rhodobaca*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 204-205.

Imhoff, J.F., 2005: Genus *Rhodobacter*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 161-167.

Imhoff, J.F., 2005: Genus *Rhodoblastus*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 471-473.

Imhoff, J.F., 2005: Genus *Rhodocista*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 33-35.

Imhoff, J.F., 2005: Genus *Rhodocyclus*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 887-890.

Imhoff, J.F., 2005: Genus *Rhodomicrobium*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 543-545.

Imhoff, J.F., 2005: Genus *Rhodopseudomonas*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 473-476.

Imhoff, J.F., 2005: Genus *Rhodospira*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 35-36.

Imhoff, J.F., 2005: Genus *Rhodospirillum*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 1-6.

Imhoff, J.F., 2005: Genus *Rhodothalassium*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 228-229.

Imhoff, J.F., 2005: Genus *Rhodovibrio*. In:

- Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 36-37.
- Imhoff, J.F.**, 2005: Genus *Rhodovulum*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 205-209.
- Imhoff, J.F.**, 2005: Genus *Roseospirillum*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 39.
- Imhoff, J.F.**, 2005: Genus *Rubrivivax*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 749-750.
- Imhoff, J.F.**, 2005: Genus *Thioalkalicoccus*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 25-26.
- Imhoff, J.F.**, 2005: Genus *Thiococcus*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 28-29.
- Imhoff, J.F.**, 2005: Genus *Thiocystis*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 29-31.
- Imhoff, J.F.**, 2005: Genus *Thiodictyon*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 31-33.
- Imhoff, J.F.**, 2005: Genus *Thioflavicoccus*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 33-34.
- Imhoff, J.F.**, 2005: Genus *Thiopedia*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 36-37.
- Imhoff, J.F.**, 2005: Genus *Thiospirillum*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 39-40.
- Imhoff, J.F.**, 2005: Order Chromatiales. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 1-3.
- Imhoff, J.F.**, and Caumette P., 2005: Genus *Halochromatium*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 14-15.
- Imhoff, J.F.**, and Caumette, P., 2005: Genus *Thiocapsa*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 26-28.
- Imhoff, J.F.**, and Caumette, P., 2005: Genus *Thiohalocapsa*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 34-35.
- Imhoff, J.F.**, and Gorlenko, V.M., 2005: Genus *Roseospira*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 37-38.
- Imhoff, J.F.**, and Gorlenko, V.M., 2005: Genus *Thiorhodospira*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 57.
- Imhoff, J.F.**, and Hiraishi, A., 2005: Aerobic bacteria containing bacteriochlorophyll and belonging to the alphaproteobacteria. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part A, 133-136.
- Imhoff, J.F.**, and Hiraishi, A., 2005: Genus *Rhodobium*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 571-574.
- Imhoff, J.F.**, and Madigan, M.T., 2005: Genus *Thermochromatium*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 24-25.
- Imhoff, J.F.**, and Overmann, J., 2005: Genus *Thiorhodovibrio*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 38-39.
- Imhoff, J.F.**, Hiraishi, A., and **Süling, J.**, 2005: Anoxygenic phototrophic purple bacteria. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part A, 119-132.
- Klaeschen, D.**, Vidal, N., Kopf, A., Huene, R.v., and Krasheninnikov, V.A., 2005: Reflection Seismic Processing and Images of the Eastern Mediterranean from the Cruise 5 of the Resesearch Vessel 'Akademik Nikolaj Strakhov'. In: Krasheninnikov, V., Hall, J.K., Hirsch, F., Benjamini, C., and Flexer, A., (Eds.): *Geological Framework of the Levant, Volume II: The Levantine Basin and Israel*. Historical Productions-Hall, Jerusalem, 21-40.
- Klaeschen, D.**, Vidal, N., Kopf, A., Huene, R.v., and Krasheninnikov, V.A., 2005: Multi-Channel Seismic Profiles across Eratosthenes Seamount ant the Florence Rise reflecting the incipient collision between Africa and Eurasia near the island of Cyprus, Easter Mediterranean. In: Krasheninnikov, V., Hall, J.K., Hirsch, F., Benjamini, C., and Flexer, A., (Eds.): *Geological Framework of the Levant, Volume II: The Levantine Basin and Israel*. Historical Productions-Hall, Jerusalem, 57-71.
- Klaeschen, D.**, Vidal, N., Kopf, A., Huene, R.v., and Krasheninnikov, V. A., 2005: Seismic Images from South-East of Cyprus to the Syrien Coast. In: Krasheninnikov, V., Hall, J.K., Hirsch, F., Benjamini, C., and Flexer, A., (Eds.): *Geological Framework of the Levant, Volume II: The Levantine Basin and Israel*. Historical Productions-Hall, Jerusalem, 41-56.
- Kube, N., Bischoff, A., Wecker, B., and Waller U.**, 2005: The feasibility of a photobioreactor (microalgae) for the removal of dissolved nutrients in a closed recirculating system. In: Howell, B., and Flos, R. (Eds.): *Lessons from the Past to Optimise the Future*. EAS special publication, **35**, 289-290.
- Latif, M.**, 2005: Climate Change and El Niño. In: Münchener Rückversicherungs-Gesellschaft (Eds.): *Weather catastrophes and climate change – Is there still hope for us?* Selbstverlag, München, 42-49.
- Latif, M.**, 2005: Die Klimaproblematik. In: John, K.D., and Rübbecke, D.T.G. (Eds.): *Klimaproblematik in einer erweiterten Europäischen Union*. Chemnitzer Studien, 7, Shaker Verlag, Aachen, 15-25.
- Latif, M.**, 2005: Verändert der Mensch das Klima? In: Fischer, E.P., and Wiegandt, K. (Eds.): *Die Zukunft der Erde – Was verträge unser Planet noch?* Fischer Taschenbuch Verlag, Frankfurt a.M., 118-129. - ISBN 3-596-17126-1.
- Madigan, M.T., and **Imhoff, J.F.**, 2005: Genus *Rhodopila*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 83-85. Shiba, T., and **Imhoff, J.F.**, 2005: Genus *Erythrobacter*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 267-268.
- Mörz, T., **Brückmann, W.**, **Fekete, N.**, Hühnerbach, V., Masson, D., Hepp, D.A., **Suess, E.**, and **Weinrebe, W.**, 2005: Styles and productivity of mud diapirism along the Middle American Margin, Part 1: Margin Evolution, Segmentation, Dewatering and Mud Diapirism. In: Martinelli, G., and Panahi, B., (Eds.): *Mud volcanoes, geodynamics and seismicity*. NATO Sci. Ser., Bd. IV, 35-48.
- Mörz, T., **Fekete, N.**, Kopf, A., **Brückmann, W.**, Kreitner, S., Hühnerbach, V., Masson, D., Heppt, D.A., Schmidt, M., Kutterolf, S., Sahling, H., Aegg, F., Spiess, V., **Suess, E.**, and **Ranero, C.R.**, 2005: Styles and productivity of mud diapirism along the Middle American Margin,

part 11: Mound Culebra and Mounds 11 and 12. In: Martinelli, G., and Panahi, B., (Eds.): *Mud volcanoes, geodynamics and seismicity*. NATO Sci. Ser., Springer, Berlin, Bd. IV, 49-76.

Novotny, K., Liebsch, G., Dietrich, R., and **Lehmann, A.**, 2005: Combination of sea-level observations and an oceanographic model for geodetic applications in the Baltic Sea. In: Sanso, F., (Ed.): *A Window on the Future of Geodesy*. Springer Series of IAG Symposia, **128**, 195-200, Springer.

Pfannkuche, O., 2005: Allochthonous Deep-Sea Benthic Communities: Functioning and Forcing. In: Kristensen, E., Haese, R.R., and Kostka, J.E., (Eds.): *Macro-and Microorganisms in Marine Sediments, Coastal and Estuarine Studies*, **60**, 251-266.

Ranero, C.R., and **Weinrebe, W.**, 2005: Tectonic processes during convergence of lithospheric plates at subduction zones. In: Wille, P.C., (Ed.): *Sound Images of the Ocean: In Research and Monitoring*. Springer, Heidelberg, 85-105.

Rüggeberg, A., Dorschel, B., **Dullo, W.-Chr.**, and Hebbeln, D., 2005: Sedimentary patterns in the vicinity of a carbonate mound in the Hovland Mound Province, northern Porcupine Seabight. In: Freiwald, A., and Roberts, M., (Eds.): *Deep-water Corals & Ecosystems*. Springer, Berlin, 87-112.

Shiba, T., and **Imhoff, J.F.**, 2005: Genus *Erythrobacter*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 267-268.

Shiba, T., and **Imhoff, J.F.**, 2005: Genus *Roseobacter*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part C, 212-215.

Silantyev, S.A., **Portnyagin, M.V.**, Bazylev, B.A., Bragin, N.Y., Krylov, K.A., and Bragina, L.G., 2005: Igneous, Metamorphic and Sedimentary Rocks of the Mamonia Complex (Structural Allochthon). In: Krasheninnikov, V., Hall, J.K., Hirsch, F., Benjamini, C., and Flexer, A., (Eds.): *Geological Framework of the Levant, Volume I: Cyprus and Syria*. Historical Productions-Hall, Jerusalem, 55-100.

Silantyev, S.A., **Portnyagin, M.V.**, Bragin, N.Y., Kaleda, K.G., Krylov, K.A., and Bragina, L.G., 2005: The Troodos Ophiolite Complex (Structural Para-Autochthon). In: Krasheninnikov, V., Hall, J.K., Hirsch, F., Benjamini, C., and Flexer, A., (Eds.): *Geological Framework of the Levant, Volume I: Cyprus and Syria*. Historical Productions-Hall, Jerusalem, 7-54.

Smith, C., and **Rumohr, H.**, 2005: Imaging Methods. In: McIntyre, A.D., Eleftheriou, A. (Eds.): *Methods for Study of Marine Benthos*. Blackwell, 87-111.

Tanner, R.S., and **Imhoff, J.F.**, 2005: Genus *Arhodomonas*. In: *Bergey's Manual of Systematic Bacteriology*, 2nd ed., Vol. 2, Part B, 48-49.

Wecker, B., **Bischoff, A.**, He, J., **Kube, N.**, Lüning, K., and **Waller U.**, 2005: Modelling the nutrient uptake and benefits of seaweed filter integrated in a closed recirculating system. In: Howell, B., and Flos, R. (Eds.): *Lessons from the Past to Optimise the Future*. EAS Special publication, **35**, 465-466.

Wiehl, M., Dietrich, R., and **Lehmann, A.**, 2005: How Baltic Sea Water Mass Variations Mask the Postglacial Rebound Signal in CHAMP and GRACE Gravity Field Solutions. In: Reigber, Ch., Lühr, H., Schwintzer, P., and Wickert, J., (Eds.): *Earth Observation with CHAMP: Results from Three Years in Orbit*, 181-186, Springer Berlin.

5.4 Peer-reviewed Publications (236)

Aberle, N., Hillebrand, H., Grey, J., and Wiltshire, K.H., 2005: Selectivity and competitive interactions between two benthic invertebrate grazers (*Asellus aquaticus* and *Potamopyrgus antipodarum*): an experimental study using ¹³C- and ¹⁵N-labelled diatoms. *Freshwater Biol.*, **50**, 369-379.

Abramova, E., and **Tuschling, K.**, 2005: A 12-year study of the seasonal and interannual dynamics of the mesozooplankton in the Laptev Sea: Significance of salinity regime and life cycle patterns. *Global and Planetary Change*, **48** (1-3), 141-164.

Antia, A.N., 2005: Solubilization of particles in sediment traps: revising the stoichiometry of mixed layer export. *Biogeosciences*, **2**, 189-204.

Arunasri, K., Sasikala, C., Ramana, V.C., **Süling, J.**, and **Imhoff, J.F.**, 2005: *Marichromatium indicum* sp.nov., a new purple sulfur Gammaproteobacterium from mangroves of Goa, India. *Int. J. Syst. Evol. Microbiol.*, **55**, 673-679.

Bader, J., and **Latif, M.**, 2005: North Atlantic Oscillation Response to Anomalous Indian Ocean SST in a Coupled GCM. *J. Climate*, **18**, 5382-5389.

Bange, H.W., and Uher, G., 2005: Photochemical production of methane in natural waters: Implications for its present and past oceanic source. *Chemosphere*, **58** (2), 177-183.

Bange, H.W., Naqvi, S.W.A., and Codispoti, L.A., 2005: The nitrogen cycle in the Arabian Sea. *Progr. Oceanogr.*, **65**, 145-158.

Baquero-Bernal, A., and **Latif, M.**, 2005: Wind-driven Rossby waves in the tropical South Indian Ocean with and without an active ENSO. *J. Phys. Oceanogr.*, **35**, 729-746.

Barash, M.S., Chekhovskaya, M.P., Biebow, N., **Nürnberg, D.**, and **Tiedeman, R.**, 2005: On the Quaternary Paleooceanology of the Southeastern Part of the Sea of Okhotsk from Lithology and Planktonic Foraminifera. *Oceanology*, **45** (2), 215-220.

Bauch, D., Erlenkeuser, H., and Andersen, N., 2005: Water mass processes on Arctic shelves as revealed from $\delta^{18}\text{O}$ of H_2O . *Global and Planetary Change*, **48** (1-3), 165-174, doi: 10.1016/j.gloplacha.2004.12.011.

Bauch H.A., and **Kassens H.**, 2005: Arctic Siberian Shelf Environments: An Introduction. *Global and Planetary Change*, **48** (1-3), 1-8, doi: 10.1016/j.gloplacha.2004.12.003.

Becker, C., **Brepohl, D.**, Feuchtmayr, H., **Zöllner, E.**, **Sommer, F.**, **Clemmesen, C.**, **Sommer, U.**, and Boersma, M., 2005: Impacts of copepods on marine seston and resulting effects on *Calanus finmarchicus* RNA/DNA ratios in mesocosm experiments. *Mar. Biol.*, **146**, 531-541.

Beckmann, B., **Flögel, S.**, Hofmann, P., Schulz, M., and Wagner, T., 2005: Upper Cretaceous African climate development and implications for the marine carbon cycle. *Nature*, **437**, 241-244, doi: 10.1038/nature03976.

Belousov, A., **Walter, T.R.**, and Troll, V.R., 2005: Large-scale failures on domes and stratocones situated on caldera ring faults: sand-box modeling of natural examples from Kamchatka, Russia. *Bulletin of Volcanology*, **67**

- (5), 457-468.
- Bindeman, I., Eiler, J.M., Yogodzinski, G.M., Tatsumi, Y., Stern, C.R., Grove, T.L., **Portnyagin, M.V., Hoernle, K.A.**, and Danyushevsky, L.V., 2005: Oxygen isotope evidence for slab melting in modern and ancient subduction zones. *Earth and Planetary Science Letters*, **235** (3-4), 480-496.
- Bock, B., Liebetrau, V., Eisenhauer, A.**, Frei, R., and Leipe, T., 2005: The Nd Isotope Signature of Holocene Baltic Mn/Fe Precipitates as Monitor of Limate Change during the Little Ice Age. *Geochim Cosmochim Acta*, **69** (9), 2253-2263.
- Boebel, O., Lutjeharms, J.R.E., and **Siedler, G.**, 2005: Walter Zenk: a distinguished ocean observer. *Deep-Sea Res. II*, **52** (3-4), 375-381.
- Böhme, L.**, and **Send, U.**, 2005: Objective analyses of hydrographic data for referencing profiling float salinities in highly variable environments. *Deep-Sea Res. II*, **52** (3-4), 651-664.
- Böning, C.W.**, and Kröger, J., 2005: Seasonal variability of deep currents in the equatorial Atlantic: A model study. *Deep-Sea Res. I*, **52**, 99-121.
- Bonnet, D., Richardson, A., Harris R., Hirst, A., Beaugrand, G., Edwards, M., Ceballos, S., **Diekmann, R.**, Lopez-Urrutia, A., Valdes, L., Carlotti, F., Molinero, J.C., Weikert, H., Greve, W., Lucic, D., Albaina, A., Yahia, N.D., Umani, S.F., Miranda, A., dos Santos, A., Cook, K., Robinson, S., and Fernandez de Puelles, M.L., 2005: An overview of *Calanus helgolandicus* ecology in European waters. *Prog. Oceanogr.*, **65**, 1-53.
- Böttger-Schnack, R., and **Schnack, D.**, 2005: Population structure and fecundity of the microcopepod *Oncaea bispinosa* in the Red Sea – a challenge to general concepts for the scaling of fecundity. *Mar. Ecol. Prog. Ser.*, **302**, 159-175.
- Boyd, P.W., Law, C.L., Hutchins, D.A., Abraham, E., **Croot, P.**, Ellwood, M., Frew, R.D., Hall, J., Handy, S., Hare, C., Higgins, J., Hill, P., Hunter, K.A., LeBlanc, K., Maldonado, M. McKay, R.M., Oliver, M., Pickmere, S., Safi, K., Sander, S., Sanudo-Wilhelmy, S., Smith, M., Strzepek, R., Tovar-Sanchez, A., and Wilhelm, S., 2005: FeCycle – attempting an iron biogeochemical budget from a mesoscale SF₆ tracer experiment in unperturbed low iron waters. *Global Biogeochemical Cycles*, **19**, GB4S20, doi: 10.1029/2005GB002494.
- Boye, M., Nishioka, J., **Croot, P.L.**, Laan, P., Timmermans, K.R., and de Baar, H.J.W., 2005: Major deviations of iron organic complexation during 22 days of a mesoscale iron enrichment in the open Southern Ocean. *Marine Chemistry*, **96** (3-4), 257-271.
- Brandt, P.**, and **Eden, C.**, 2005: Annual cycle and interannual variability of the mid-depth tropical Atlantic Ocean. *Deep-Sea Res. I*, **52** (2), 199-219.
- Bringmann, G., Lang, G., Gulder, T.A.M., Tsuruta, H., Mühlbacher, J., Maksimenka, K., Steffens, S., Schumann, K., **Stöhr, R., Wiese, J., Imhoff, J.F.**, Perovic-Ottstadt, S., Boreiko, O., and Müller, W.E.G., 2005: The first sorbicillinoid alkaloids, the antileucemic sorbillacones A and B, from a sponge derived *Penicillium chrysogenum* strain. *Tetrahedron*, **61**, 7252-7265.
- Cahalan, R.F., Oreopoulos, L., Marshak, A., Evans, K., Davis, A.B., Pincus, R., Yetzer, K.H., Mayer, B., Davies, R., Ackerman, T.P., Barker, H.W. Clothiaux, E.E., Ellingson, R.G., Garay, M.J., Kassianov, E., Kinne, S., **Macke, A.**, O'Hirok, W., Partain, P.T., Prigarin, S.M., Rublev, A.N., Stephens, G.L., Szczap, F., Takara, E.E., Várnai, T., Wen, G., and Zhuravleva, T.B., 2005: The International Intercomparison of 3D Radiation Codes (I3RC): Bringing together the most advanced radiative transfer tools for cloudy atmospheres. *Bull. Amer. Met. Soc.*, **86** (9) 1275-1293, doi: 10.1175/BAMS-86-9-1275.
- Che J., Molis, M., Dzeha, T., and **Wahl, M.**, 2005: Herbivore induced defenses in macroalgae on the Kenyan coast. *J. Phycol.*, **41**, 726-731.
- Cherry, J., Cullen, H., **Visbeck, M.**, Samall, A., and Uvo, C., 2005: Impacts of the North Atlantic Oscillation on Scandinavian hydropower production and energy markets. *Water Resources Management*, **19** (6), 673-691.
- Christie, D., **Werner, R., Hauff, F., Hoernle, K.A.**, and Hanan, B.B., 2005: Morphological and geochemical variations along the eastern Galápagos Spreading Center. *Geochemistry, Geophysics, Geosystems*, **6** (1), Q01006.
- Croot, P.L.**, Laan, P., Nishioka, J., Boye, M., Timmermans, K.R., Bellerby, R.G., Goldson, L., Nightingale, P., and de Baar, H.J.W., 2005: Spatial and temporal distribution of Fe(II) and H₂O₂ during EISENEX, an open ocean mesoscale iron enrichment. *Marine Chemistry*, **95**, 65-88.
- Cuny, J., P.B. Rhines, **F. Schott**, and J. Lazier, 2005: Convection above the Labrador continental slope. *J. Phys. Oceanogr.* **35**, 489-511.
- D'Ortenzio, F., Iudicone, D., de Boyer Montegut, C., **Testor, P.**, Antoine D., Marullo, S., Santoleri, R., and Madec, G., 2005: Seasonal variability of the mixed layer depth in the Mediterranean Sea as derived from in situ profiles. *Geophys. Res. Lett.*, **32** (12), L12605, doi: 10.1029/2005GL022463.
- de Baar, H.J.W., Boyd, P.W., Coale, K.H., Landry, M.R., Tsuda, A., Assmy, P., Bakker, D.C.E., Bozec, Y., Barber, R.T., Brzezinski, M.A., Buesseler, K.O., Boyé, M., **Croot, P.L.**, Gervais, F., Gorbunov, M.Y., Harrison, P.J., Hiscock, W.T., Laan, P., Lancelot, C., Law, C., Levasseur, M., Marchetti, A., Millero, F.J., Nishioka, J., Nojiri, Y., van Oijen, T., **Riebesell, U.**, Rijkenberg, M. J.A., Saito, H., Takeda, S., Timmermans, K.R., Veldhuis, M.J.W., Waite, A.M., and Wong, C.-S., 2005: Synthesis of 8 Iron Fertilization Experiments: from the Iron Age in the Age of Enlightenment. *Journal of Geophysical Research – Oceans*, **110** (C9), C09S16, doi: 10.1029/2004JC002601.
- Delille B., Harlay, J., Zondervan, I., Jacquet, S., Chou, L., Wollast, R., Bellerby, R.G.J., Frankignoulle, M., Borges, A.V., **Riebesell, U.**, and Gattuso, J.-P., 2005: Response of primary production and calcification to changes of pCO₂ during experimental blooms of the coccolithophorid *Emiliania huxleyi*. *Global Biogeochemical Cycles* **19**, GB2023, doi: 10.1029/2004GB002318.
- Devey, C.W., Lackschewitz, K.S.**, and Baker, E., 2005: Hydrothermal and Volcanic Activity Found on the Southern Mid-Atlantic Ridge. *EOS Transactions*, **86** (22), 209-212.
- Dietze, H.**, and Oschlies, A., 2005: Modeling abiotic production of apparent oxygen utilisation in the oligotrophic subtropical North Atlantic. *Ocean Dynamics*, **55**, 28-33, doi: 10.1007/s10236-005-0109-z.

- Dietze, H.**, and Oschlies, A., 2005: On the correlation between air-sea heat flux and abiotically induced oxygen exchange in a circulation model of the North Atlantic. *J. Geophys. Res.*, **110**, C09016, doi: 10.1029/2004JC002453.
- Dmitrenko, I.A.**, Tyshko, K.N., Kirillov, S.A., Eicken, H., Hölemann, J.A., and **Kassens, H.**, 2005: Impact of flaw polynyas on the hydrography of the Laptev Sea. *Global and Planetary Change*, **48** (1-3), 9-27, doi: 10.1016/j.gloplacha.2004.12.016.
- Dobretsov, S.V.**, Qian, P.Y., and **Wahl, M.**, 2005: Effect of solar ultraviolet radiation on the formation of shallow, early successional biofouling communities in Hong Kong. *Mar. Ecol. Prog. Ser.*, **290**, 55-65.
- Dorschel, B.**, Hebbeln, D., **Rüggeberg, A.**, **Dullo, W.-Chr.**, and Freiwald, A., 2005: Growth and erosion of a cold-water coral covered carbonate mound in the Northeast Atlantic during the Late Pleistocene and Holocene. *Earth and Planetary Science Letters*, **233**, 33-44.
- Duggen, S.**, **Hoernle, K.A.**, **Bogaard, P.v.d.**, and Garbe-Schönberg, C.D., 2005: Post-Collisional Transition from Subduction to Intraplate-type Magmatism in the Westernmost Mediterranean: Evidence for Continental-Edge Delamination of Subcontinental Lithosphere. *Journal of Petrology*, **46** (6), 1155-1201.
- Dullo, W.-Chr.**, 2005: Coral growth and reef growth: A brief review. *Facies*, **51**, 33-48, doi: 10.1007/s10347-005-0060-y.
- Eicken, H.**, **Dmitrenko, I.**, Tyshko, K., Darovskikh, A., Dierking, W., Blahak, U., Groves, J., and **Kassens, H.**, 2005: Zonation of the Laptev Sea landfast ice cover and its importance in a frozen estuary. *Global and Planetary Change*, **48** (1-3), 55-83, doi: 10.1016/j.gloplacha.2004.12.005.
- Ellwood, M. J.**, van den Berg, C.M.G., Boye, M., Veldhuis, M., de Jong, J.T.M., de Baar, H.J.W., **Croot, P.L.**, and Kattner, G., 2005: Organic complexation of cobalt across the Antarctic Polar Front in the Southern Ocean. *Marine and Freshwater Research*, **56**(8), 1069-1075.
- Elvert, M.**, Hopmans, E.C., Treude, T., Boetius, A.E., and **Suess, E.**, 2005: Spatial variations of methanotrophic consortia at cold methane seeps: implications from a high-resolution molecular and isotopic approach. *Geobiology*, **3**, 195-209.
- Engel, A.**, Zondervan, I., Aerts, K., Beaufort, L., Benthien, A., Chou, L., Delille, B., Gattuso, J.-P., Harley, J., Heemann, C., **Hoffmann, L.**, Jacquet, S., Nejstgaard, J., Pizay, M.-D., Rochelle-Newall, E., Schneider, U., Terbrüggen, A., and **Riebesell, U.**, 2005: Testing the direct effect of CO₂ concentration on a bloom of the coccolithophorid *Emiliania huxleyi* in mesocosm experiments. *Limnology and Oceanography*, **50**, 493-504.
- Fietzke, J.**, **Liebetrau, V.**, **Eisenhauer, A.**, and **Dullo, W.-Chr.**, 2005: Determination of uranium isotope ratios by multi-static MIC-ICP-MS: method and implementation for precise U- and Th-series isotope measurements. *Journal of Analytical Atomic Spectrometry*, **20**, 395-401.
- Flöder, S.**, and Burns, C., 2005: The influence of fluctuating light on diversity and species number of nutrient-limited phytoplankton. *J. Phycol.*, **41** (5), 950-956, doi: 10.1111/j.1529-8817.
- Flögel, S.**, Hay, W.W., DeConto, R.M., and Balukhovskiy, A.N., 2005: Formation of sedimentary bedding couplets in the Western Interior Seaway of North America - Implications from Climate System Modelling. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **218** (1-2), 125-143.
- Friis, K.**, **Körtzinger, A.**, Pätsch, J., and **Wallace, D.W.R.**, 2005: On the temporal increase of anthropogenic CO₂ in the subpolar North Atlantic. *Deep-Sea Res. I*, **52**, 681-698.
- Geldmacher, J.**, **Hoernle, K.A.**, **Bogaard, P.v.d.**, Duggen, S., and **Werner, R.**, 2005: New ⁴⁰Ar / ³⁹Ar age and geochemical data from seamounts in the Canary and Madeira volcanic provinces: Support for the mantle plume hypothesis. *Earth and Planetary Science Letters*, **237** (1-2), 85-101.
- Getzlaff, J.**, **Böning, C.W.**, **Eden, C.**, and **Bjastoch, A.**, 2005: Signal propagation related to the North Atlantic Overturning. *Geophys. Res. Letters*, **32**, L09602, doi: 10.1029/2004GL021002.
- Gil-Martens, L.**, Obach, A., Ritchie, G., and **Witten, P.E.**, 2005: Analysis of a short tail type in farmed Atlantic salmon (*Salmo salar*). *Fish. Veterinary Journal*, **8**, 71-79.
- Greally, B.R.**, Simmonds, P.G., O'Doherty, S., McCulloch, A., Miller, B.R., Salameh, P.K., Mühle, J., **Tanhua, T.**, Harth, C., Weiss, R.F., Fraser, P.J., Krummel, P.B., Dunse, B.L., Porter, L.W., and Prinn, R.G., 2005: Improved continuous *in situ* measurements of C₁-C₃ PFCs, HFCs, HCFCs, CFCs and SF₆ in Europe and Australia. *Environmental Science*, **2** (2-3), 253-261.
- Grevenmeyer, I.**, Kaul, N., Diaz-Naveas, J.L., Villinger, H., **Ranero, C. R.**, and Reichert, C., 2005: Heat flow and bending-related faulting at subduction trenches: Case studies offshore of Nicaragua and Central Chile. *Earth and Planetary Science Letters*, **236** (1-2), 238-248.
- Gussone, N.**, **Böhm, F.**, **Eisenhauer, A.**, Dietzel, M., **Heuser, A.**, Teichert, B.M.A., Reitner, J., Wörheide, G., and **Dullo, W.-Chr.**, 2005: Calcium Isotope Fractionation in the Calcium Carbonate Polymorphs Calcite and Aragonite. *Geochimica et Cosmochimica Acta*, **69** (18), 4485-4494, doi: 10.1016/j.gca.2005.06.003.
- Haase-Schramm, A.**, **Böhm, F.**, **Eisenhauer, A.**, Garbe-Schönberg, D., **Dullo, W.-Chr.**, and Reitner, J., 2005: Annual- to interannual temperature variability in the Caribbean during the Maunder Sunspot Minimum. *Paleoceanography*, **20**, PA4015, doi: 10.1029/2005PA001137.
- Haley, B.A.**, Klinkhammer, G.P., and Mix, A.C., 2005: Revisiting the rare earth elements in foraminiferal tests. *Earth and Planet. Sci. Lett.*, **239**, 79-97.
- Harpp, K.**, Wanless, V.D., Otto, R.H., **Hoernle, K.A.**, and **Werner, R.**, 2005: The Cocos and Carnegie Aseismic Ridges: a Trace Element Record of Long-term Plume-Spreading Center Interaction. *Journal of Petrology*, **46** (1), 109-133.
- Haug, G.H.**, Ganopolski, A., Sigman, D.M., Rosell-Mele, A., Swann, G.E.A., **Tiedemann, R.**, Jaccard, S.L., Bollmann, J., Maslin, M.A., Leng, M.J., and Eglinton, G., 2005: The seasonal cycle in North Pacific sea surface temperature and the glaciation of North America 2.7 million years ago. *Nature*, **433**, 821-825.
- Hay, W.W.**, **Flögel, S.**, and Söding, E., 2005: Is the initiation of glaciation on Antarctica related to a change in the structure of the ocean? *Global and Planetary Change*, **45** (1-3), 23-33.

- Heeschen, K.U., Collier, R.W., de Angelis, M.A., **Suess, E., Rehder, G., Linke, P.**, and Klinkhammer, G.P., 2005: Methane sources, distributions, and fluxes from cold vent sites at Hydrate Ridge, Cascadia Margin. *Global Biogeochemical Cycles*, **19**, GB2016, doi: 10.1029/2004GB002266.
- Heinz, P., **Sommer, S., Pfannkuche, O.**, and Hemleben, C., 2005: Living benthic foraminifera in sediments influenced by gas hydrates at the Cascadia convergent Margin, NE Pacific. *Mar. Ecol. Prog. Ser.*, **304**, 77-89.
- Helmke, J.P., Bauch, H.**, Rohl, U., and Mazaud, A., 2005: Changes in sedimentation patterns of the Nordic seas region across the mid-Pleistocene. *Marine Geology*, **215**, 107-122.
- Hensen, C.**, and **Wallmann, K.**, 2005: Methane formation at Costa Rica continental margin – constraints for gas hydrate inventories and cross-décollement fluid flow. *Earth Planet. Sci. Lett.*, **236**, 41-60.
- Heuser, A., Eisenhauer, A., Böhm, F., Wallmann, K., Gussone, N.**, Pearson, P.N., Nägler, T.F., and **Dullo, W.-Chr.**, 2005: Calcium isotope ($\delta^{44/40}\text{Ca}$) variations of Neogene planktonic foraminifera. *Paleoceanography*, **20** (2), PA2013, doi: 10.1029/2004PA001048.
- Hinrichsen, H.-H., Kraus, G., Voss, R., Stepputtis, D.**, and Baumann, H., 2005: The general distribution pattern and mixing probability of Baltic sprat juvenile populations. *J. Mar. Sys.*, **58**, 52-66.
- Hinrichsen, H.-H., Schmidt, J., Petereit, C.**, and Möllmann, C., 2005: Survival probability of Baltic larval cod in relation to spatial overlap patterns with their prey obtained from drift model studies. *ICES J. Mar. Sci.*, **62**, 878-885.
- Hippler, D., **Eisenhauer, A.**, and Nägler, T. F., 2005: Tropical Atlantic SST history inferred from Ca isotope thermometry over the last 140ka. *Geochim. Cosmochim. Acta*, **70**, 90-100.
- Hölemann, J.A.**, Schirmacher, M., and Prange, A., 2005: Seasonal variability of trace metals in the Lena River and the southeastern Laptev Sea: impact of the spring freshet. *Global and Planetary Change*, **48** (1-3), 112-125.
- Holohan, E.P., Troll, V.R., Walter, T.R., **Muenn, S.**, McDonnell, S., and Shipton, Z.K., 2005: Elliptical calderas in active tectonic settings: an experimental approach. *Journal of Volcanology and Geothermal Research*, **144** (1-4), 119-136.
- Horii, Y., Kannan, K., **Petrick, G.**, Gamo, T., Falandysz, J. and Yamashita, N., 2005: Congener-Specific Carbon Isotopic Analysis of Technical PCB and PCN Mixtures Using Two Dimensional Gas Chromatography-Isotope Ratio Mass Spectrometry. *Environ. Sci. & Technol.*, **39** (11), 4206-4212.
- Huyseune, A., Delgado, S., and **Witten, P.E.**, 2005: How to replace a tooth: fish(ing) for answers. *Oral Biosci. and Med.*, **2**, 75-81.
- Jickells, T.D., An, Z.S., Andersen, K.K., Baker, A.R., Bergametti, G., Brooks, N., Cao J.J., Boyd, P.W., Duce, R.A., Hunter, K.A., Kawahata, H., Kubilay, N., **LaRoche, J.**, Liss, P.S., Mahowald, N., Prospero, J. M., Ridgwell, A.J., Tegen, I., and Torres, R., 2005: Global Iron Connections Between Desert Dust, Ocean Biogeochemistry and Climate. *Science*, **308**, 67-71.
- Johansen, T.S., **Hauff, F., Hoernle, K.A.**, Klügel, A., and Kokfelt, T.F., 2005: Basanite to phonolite differentiation within 1550–1750 yr: U-Th-Ra isotopic evidence from the A.D. 1585 eruption on La Palma, Canary Islands. *Geology*, **33** (11), 897-900.
- Johns, W.E., **Kanzow, T.**, and **Zantopp, R.J.**, 2005: Estimating ocean transports with dynamic height moorings: An application in the Atlantic Deep Western Boundary Current at 26°N. *Deep-Sea Res. I*, **52** (8), 1542-1567.
- Jungclaus, J., Haak, H., **Latif, M.**, and Mikolajewicz, U., 2005: Arctic-North Atlantic interactions and multidecadal variability of the thermohaline circulation. *J. Climate*, **18**, 4013-4031.
- Justino, F., Timmermann, A., **Merkel, U.**, and Sousa, E.P., 2005: Synoptic reorganization of atmospheric flow during the Last Glacial Maximum. *J. Climate*, **18**, 2826-2846.
- Kanzow, T.**, Flechtner, F., Chave, A., Schmidt, R., Schwintzer, P., and **Send, U.**, 2005: Seasonal variation of ocean bottom pressure derived from Gravity Recovery and Climate Experiment (GRACE): Local validation and global patterns. *J. Geophys. Res.*, **110**, C09001, doi: 10.1029/2004JC002772.
- Karstensen, J.**, Schlosser, P., **Wallace, D.W.R.**, Bullister, J.L., and Blindheim, J., 2005: Water mass transformation in the Greenland Sea during the 1990s. *J. Geophys. Res.*, **110**, C07022, doi: 10.1029/2004JC002510.
- Keeling RF, and **Visbeck, M.**, 2005: Northern ice discharges and Antarctic warming: could ocean eddies provide the link? *Quaternary Science Review*, **24** (16-17), 1809-1820.
- Keenlyside, N., Latif, M.**, Botzet, M., Jungclaus, J., and Schulzweida, U., 2005: A coupled method for initializing El Niño Southern Oscillation forecasts using sea surface temperature. *Tellus*, **57A** (3), 340-356.
- Keir, R., Greinert, J.**, Rhein, M., **Petrick, G.**, Sültenfuß, J., and Fürhaupter, K., 2005: Methane and methane carbon isotopes in the Northeast Atlantic including the Mid-Atlantic Ridge (50°N). *Deep-Sea Research I*, **52**, 1043-1070.
- Khaliwala, S., **Visbeck, M.**, and Cane, M.A., 2005: Accelerated simulation of passive tracers in ocean circulation models. *Ocean Modelling*, **9** (1), 51-69.
- Khusid, T.A., Barash, M.S., Biebow, N., **Nürnberg, D.**, and **Tiedemann, R.**, 2005: Late Quaternary Environmental Changes on the Southeastern Slope of the Sea of Okhotsk Inferred from Benthic Foraminifera. *Oceanology*, **45** (3), 413-419.
- Kim, S.**, Rosenthal, H., **Clemmesen, C.**, Park, K.Y., Kim, D.H., Choi, Y.S., and Seo, H.C., 2005: Various methods to determine the gonadal development and spawning season of the purplish Washington clam, *Saxidomus purpuratus* (Sowerby). *J. Appl. Ichthyol.*, **21**, 101-106.
- Klaucke, I.**, Sahling, H., **Bürk, D., Weinrebe, W.**, and Bohrmann, G., 2005: Mapping deep-water gas emissions with sidescan sonar. *EOS Transactions*, **86** (38), 341-346.
- Klein, G.**, Bohlen, T., Theilen, F., Kugler, S., and Forbriger, T., 2005: Acquisition and Inversion of Dispersive Seismic Waves in Shallow Marine Environments. *Marine Geophysical Researches*, **26** (2-4), 287-315.
- Klemm, V., Levasseur, S., **Frank, M.**, Hein, J.R., and Halliday, A.N., 2005: Osmium isotope stratigraphy of a marine ferromanganese crust. *Earth Planet. Sci. Lett.*, **238**, 42-48.
- Klügel, A., **Hansteen, T.H.**, and Galipp, K., 2005: Magma storage and underplating beneath

- Cumbre Vieja volcano, La Palma (Canary Islands). *Earth and Planetary Science Letters*, **236** (1-2), 211-226.
- Klügel, A., **Walter, T.R.**, Schwarz, S., and **Geldmacher, J.**, 2005: Gravitational spreading causes en-echelon diking along a rift zone of Madeira Archipelago: an experimental approach and implications for magma transport. *Bulletin of Volcanology*, **68** (1), 37-46.
- Koeve, W.**, 2005: Magnitude of excess carbon sequestration into the deep ocean and the possible role of TEP. *Marine Ecology-Progress Series*, **291**, 53-64.
- Kokfelt, T.F., Lundstrom, C.C., **Hoernle, K.A.**, **Hauff, F.**, and Werner, R., 2005: Plume-ridge interaction studied at the Galápagos spreading center: Evidence from ^{226}Ra - ^{230}Th - ^{238}U and ^{231}Pa - ^{235}U isotopic disequilibria. *Earth and Planetary Science Letters*, **234** (1-2), 165-187.
- Körtzinger, A.**, **Schimanski, J.**, and **Send, U.**, 2005: High-quality oxygen measurements from profiling floats: A promising new technique. *J. Atm. Ocean. Techn.*, **22**, 302-308.
- Köster, F.-W., Möllmann, C., **Hinrichsen, H.-H.**, Tomkiewicz, J., Wieland, K., **Kraus, G.**, **Voss, R.**, MacKenzie, B.R., **Schnack, D.**, Makarchouk, A., Plikshs, M., and Beyer J.E., 2005: Baltic cod recruitment - the impact of climate and species interaction. *ICES J. Mar. Sci.*, **62**, 1408-1425.
- Krolikowska-Ciaglo, S., **Hauff, F.**, and **Hoernle, K.A.**, 2005: Sr-Nd isotope systematics in 14-28 Ma low-temperature altered mid-ocean ridge basalt from the Australian Antarctic Discordance, Ocean Drilling Program Leg 187. *Geochemistry, Geophysics, Geosystems*, **6** (1), Q01001.
- Langlois, R.**, Raab, P., and **LaRoche, J.**, 2005: Diazotrophic Diversity and Distribution in the Tropical and Sub-tropical Atlantic Ocean. *Appl. Environm. Microb.*, **71**, (12).
- LaRoche, J.**, and **Breitbarth, E.**, 2005: The importance of Trichodesmium in the global nitrogen cycle. *Journal of Sea Research*, **53**, 53-67.
- Leythaeuser, T., **Reston, T.J.**, and Minshall, T.A., 2005: Waveform inversion of the S reflector west of Spain: Fine structure of a detachment fault. *Geophysical Research Letters*, **32** (22), L22304.
- Ling, H.-F., Joang, S.-Y., **Frank, M.**, Zhou, H.-Y., Zhou, F., Lu, Z.-L., Chen, X.-M., Joang, Y.-H., and Ge, C.D., 2005: Differing controls over the Cenozoic Pb and Nd isotope evolution of deepwater in the central North Pacific Ocean. *Earth Planet. Sci. Lett.*, **232**, 345-361.
- Linke, P.**, **Wallmann, K.**, **Suess, E.**, **Hensen, C.**, and **Rehder, G.**, 2005: In-situ benthic fluxes from an intermittently active mud volcano at the Costa Rica convergent margin. *Earth Planet. Sci. Lett.*, **235**, 79-95.
- Lohmann, K., and **Latif, M.**, 2005: Pacific Decadal Variability and the Subtropical-Tropical Cells. *J. Climate*, **18**, 5163-5177.
- Löptien, U.**, and **Ruprecht, E.**, 2005: Effect of Synoptic Systems on the Variability of the North Atlantic Oscillation. *Monthly Weather Review*, **133** (10), 2894-2904.
- Lotze, H.K.**, 2005: Radical changes in the Wadden Sea fauna and flora over the last 2000 years. *Helgoland Mar. Res.*, **59**, 71-83.
- Lotze, H.K.**, and Reise, K., 2005: Ecological history of the Wadden Sea. *Helgoland Mar. Res.* **59** (1) 1.
- Lotze, H.K.**, Reise, K., Worm, B., van Beusekom, J., Busch, M., **Ehlers, A.**, Heinrich, D., Hoffmann, R.C., Holm, P., Jensen, Ch., Knottnerus, O.S., **Langhanki, N.**, Prummel, W., Vollmer, M., and Wolff, W.J., 2005: Human transformations of the Wadden Sea ecosystem through time: a synthesis. *Helgoland Mar. Res.*, **59** (1), 84-95.
- Lube, G.**, Huppert, H.E., Sparks, S.J., and **Freundt, A.**, 2005: Collapses of two-dimensional granular columns. *Physical Review E*, **72**, 041301.
- Luff, G.**, **Greinert, J.**, **Wallmann, K.**, **Klaucke, I.**, and **Suess, E.**, 2005: Simulation of long-term feedbacks from authigenic carbonate crust formation at cold vent sites. *Chemical Geology*, **216** (1-2), 157-174.
- Macaya, E., Rothäusler, E., Thiel, M., Molis, M., and **Wahl, M.**, 2005: Induction of defences and within-plant variation on palatability in two brown algae from the northern-central coast of Chile: effects of mesograzers and UV radiation. *J. Exp. Mar. Biol. Ecol.*, **325**, 214-227.
- Machu, E., **Biaśtoch, A.**, Oschlies, A., Kawamiya, M., Garçon, V., and Lutjeharms, J.R.E., 2005: Phytoplankton distribution in the Agulhas system from a coupled physical-biological model. *Deep-Sea Res. I*, **52** (7), 1300-1318.
- Macrander, A.**, **Send, U.**, Valdimarsson, H., Jonsson, S., and Käse, R.H., 2005: Interannual changes in the overflow from the Nordic Seas into the Atlantic Ocean through the Denmark Strait. *Geophys. Res. Lett.*, **32** (5), L06606 doi: 10.1029/2004GL021463.
- Matveev, S., **Portnyagin, M.V.**, Ballhaus, C., Brooker, R., and Geiger, C.A., 2005: FTIR Spectrum of Phenocryst Olivine as an Indicator of Silica Saturation in Magmas. *Journal of Petrology*, **46** (3), 603-614.
- Mau, S., Sahling, H., **Rehder, G.**, **Suess, E.**, **Linke, P.**, and Soeding, E., 2005: Estimates of methane output from mud extrusions at the erosive convergent margin off Costa Rica. *Marine Geology*, **225**, 129-144.
- Meehl, G., Covey, C., McAvaney, B., **Latif, M.**, and Stouffer, R., 2005: Overview of the Coupled Model Intercomparison Project (CMIP). *Bull. Amer. Meteor. Soc.*, **86**, 89-93.
- Melzner, F.**, Forsythe, J.W., Lee, P.G., Wood, J.B., **Piatkowski, U.**, and **Clemmesen, C.**, 2005: Estimating recent growth in the cuttlefish *Sepia officinalis*: are nucleic acid-based indicators for growth and condition the method of choice? *J. Exp. Mar. Biol. Ecol.*, **317**, 37-51.
- Michaud, F., Chabert, A., Collot, J.-Y., Sallarès, V., **Flueh, E.R.**, Charvis, P., Graindorge, D., Gutscher, M.-A., and **Bialas, J.**, 2005: Fields of multi-kilometer scale sub-circular depressions in the Carnegie Ridge sedimentary blanket: Effect of underwater carbonate dissolution? *Marine Geology*, **216** (4), 205-219.
- Mills, M.M.**, Ridame, C., Davey, M., **La Roche, J.**, and Geider, R.J., 2005: Iron and phosphorus co-limit nitrogen fixation in the eastern tropical North Atlantic. *Nature*, **435** (7039), 232.
- Möllmann, C.**, Kornilovs, G., Fetter, M., and Köster, F.W., 2005: Climate, zooplankton and pelagic fish growth in the Central Baltic Sea. *ICES J. Mar. Sci.*, **62**, 1270-1280.
- Müller, G.**, Liebsch, N., and Wilson, R.P., 2005: A new shot at a release mechanism for devices attached to free-living animals. *Wildlife Society Bulletin*, **33**(1), 337-342.
- Müller-Lupp, T.**, and **Bauch, H.**, 2005: Linkage of Arctic atmospheric circulation and Siberian

- shelf hydrography: a proxy validation using $\delta^{18}\text{O}$ records of bivalve shells. *Global Planetary Change*, **48** (1-3), 175-186, doi: 10.1016/j.gloplacha.2004.12.012.
- Munkes, B.**, 2005: Eutrophication, phase shift, the delay and the potential return in the Greifswalder Bodden, Baltic Sea. *Aquat. Sci.*, **67**, 372-381.
- Naqvi, S.W.A., **Bange, H.W.**, Gibb, S.W., Goyet, C., Hatton, A.D., and Upstill-Goddard, R.C., 2005: Biogeochemical ocean-atmosphere transfers in the Arabian Sea. *Progr. Oceanogr.*, **65**, 116-144.
- Netzeband, G.L., Huebscher, C., Gajewski, D., Grobys, J.W.G., and **Bialas, J.**, 2005: Seismic velocities from the Yaguina forearc basin off Peru: evidence for free gas within the gas hydrate stability zone. *International Journal of Earth Sciences*, **94** (3), 420-432.
- Nishioka, J., Takeda, S., de Baar, H.J.W., Laan, P., **Croot, P.**, Boye, M., and Timmermans, K.R., 2005: Changes in the concentrations of iron in different size fractions during an iron fertilization experiment in the Southern Ocean. *Marine Chemistry*, **95**, 51-63.
- Olbers, D., and **Visbeck, M.**, 2005: A Model of the Zonally Averaged Stratification and Overturning in the Southern Ocean. *J. Phys. Oceanogr.*, **35**, 1190-1205.
- Olsson, K.A., Jaensson, E., **Tanhua, T.**, and Cascar, J.-C., 2005: The East Greenland Current studied with CFCs and released sulphur hexafluoride. *Journal of Marine Systems*, **55** (1-2), 77-95.
- Park, W.**, and **Latif, M.**, 2005: Ocean Dynamics and the Nature of Air-Sea Interactions over the North Atlantic at Decadal Time Scales. *J. Climate*, **18**, 982-995.
- Peck, M.A., **Clemmesen, C.**, and Herrmann, J.-P., 2005: Ontogenic changes in the allometric scaling of the mass-length relationship in sprat (*Sprattus sprattus*). *J. Fish. Biol.*, **66**, 882-887.
- Petersen, S.**, **Herzig, P.M.**, **Kuhn, T.**, Monecke, T., Franz, L., Hannington, M.D., and Gemmell, J.B., 2005: Shallow drilling of seafloor hydrothermal systems using the BGS Rockdrill: Conical Seamount (New Ireland Fore-Arc) and Pacmanus (Eastern Manus Basin), Papua New Guinea. *Marine Georesources and Geotechnology*, **23** (3), 175-193.
- Pfirman, S., Haxby, W., Eicken, H., Jeffries, M., and **Bauch, D.**, 2005: Drifting Arctic sea ice archives changes in ocean surface conditions. *Geophysical Research Letters*, **31** (19), L19401, doi: 10.1029/2004GL020666.
- Phelan, P.E., Pressley, M.E., **Witten, P.E.**, Mellon, M.T., Blake, S., Nicholson, B., and Kim, C.H., 2005: Characterization of viral infection with snakehead rhabdovirus in zebrafish (*Danio rerio*). *J. Virol.*, **79**, 1842-1852.
- Phipps Morgan, J., **Reston, T.J.**, and **Ranero, C.R.**, 2005: Reply to A. Glikson's comment on 'Contemporaneous mass extinctions, continental flood basalts, and 'impact signals': Are mantle plume-induced lithospheric gas explosions the causal link?' [EPSL 217 (2004) 263-285]. *Earth and Planetary Science Letters*, **236** (3-4), 938-941.
- Piatkowski, U.**, and **Diekmann, R.**, 2005: A short note on the cephalopods sampled in the Angola Basin during the DIVA I-expedition. *Org. Divers. Evol.*, **5** (1), 227-230.
- Pohlmann, H., and **Latif, M.**, 2005: Atlantic versus Indo-Pacific influence on Atlantic-European Climate. *Geophys. Res. Lett.*, **32**, L05707, doi: 10.1029/2004GL021316.
- Polliand, M., Schaltegger, U., **Frank, M.**, and Fontboté, L., 2005: Formation of volcano sedimentary basins on the western flank of the central Peruvian Andes during Late Cretaceous oblique subduction - field evidence and constraints from U-Pb ages and Hf isotopes. *International Journal of Earth Sciences - Geologische Rundschau*, **94**, 231-242.
- Polyakova, Y.I., **Bauch, H.**, and Klyuvitkina, T., 2005: Past changes in Laptev Sea water masses deduced from diatom and aquatic palynomorph assemblages. *Global and Planetary Change*, **48** (1-3), 208-222, doi: 10.1016/j.gloplacha.2004.12.014.
- Portnyagin, M.V.**, **Hoernle, K.A.**, Avdeiko, G.P., **Hauff, F.**, **Werner, R.**, Bindeman, I., Uspensky, V.S., and Garbe-Schönberg, C.D., 2005: Transition from arc to oceanic magmatism at the Kamchatka-Aleutian junction. *Geological Society of America*, **33** (1), 25-28.
- Portnyagin, M.V.**, Mironov, N.L., Matveev, S., and Plechov, P.Y., 2005: Petrology of Avachites, High-Magnesian Basalts of Avachinsky Volcano, Kamchatka: II. Melt Inclusions in Olivine. *Petrology*, **13** (4), 322-351.
- Portnyagin, M.V.**, Plechov, P.Y., Matveev, S., Osipenko, A.B., and Mironov, N.L., 2005: Petrology of Avachites, High-Magnesian Basalts of Avachinsky Volcano, Kamchatka: I. General Characteristics and Composition of Rocks and Minerals. *Petrology*, **13** (2), 99-121.
- Portnyagin, M.V.**, Savel'ev, D.P., and **Hoernle, K.A.**, 2005: Plume-Related Association of Cretaceous Oceanic Basalts of Eastern Kamchatka: Compositions of Spinel and Parental Magmas. *Petrology*, **13** (6), 571-588.
- Pressley, M.E., Phelan, P.E., **Witten, P.E.**, Mellon, M.T., and Kim, C.H., 2005: Pathogenesis and inflammatory response to *Edwardsiella tarda* infection in the zebrafish. *Dev. Comp. Immunol.*, **29**, 501-513.
- Ptácnik, R.**, Jenerette, G.D., Verschoor, A.M., Huberty, A.F., Solimini, A.G., and Brookes, J.D., 2005: Applications of ecological stoichiometry for sustainable acquisition of ecosystem services. *OIKOS*, **109**, 52-62.
- Ranero, C.R.**, Villaseñor, A., Morgan, J.P., and **Weinrebe, W.**, 2005: Relationship between bend-faulting at trenches and intermediate-depth seismicity. *Geochemistry, Geophysics, Geosystems*, **6** (12), Q12002.
- Reijmer, J.J.G.**, and Immenhauser, A., 2005: Sedimentary Geology Special Issue "Sedimentology in the 21st Century - A Tribute to Wolfgang Schlager", Editorial. *Sedimentary Geology*, **175**, 3-8.
- Rein, B., Lückge, A., Reinhardt, L., Sirocko, F., Wolf, A., and **Dullo, W.-Chr.**, 2005: El Niño variability off Peru during the last 20,000 Years. *Paleoceanography*, **20**, PA4003, doi: 10.1029/2004PA001099.
- Rendle-Bühning, R.H., and **Reijmer, J.J.G.**, 2005: Controls on grain-size patterns in periplatform carbonates: marginal setting versus glacio-eustasy. Special Issue "Sedimentology in the 21st Century - A Tribute to Wolfgang Schlager". *Sedimentary Geology*, **175**, 99-113.
- Renno, A.D., Leander, F., Witzke, T., and **Herzig, P.M.**, 2005: The coexistence of melts of hydrous copper chloride, sulfide and silicate compositions in a magnesiohastingsite cumulate, Tubaf seamount, Papua New Guinea.

Can. Mineral., **42**(1), 1-16.

Reston, T.J., 2005: Polyphase faulting during the development of the west Galicia rifted margin. *Earth and Planetary Science Letters*, **237** (3-4), 561-576.

Reuning, L., **Reijmer, J.J.G.**, Betzler, C., Swart, P.K., and **Bauch, T.**, 2005: The use of paleoceanographic proxies in carbonate platform settings - opportunities and pitfalls. Special Issue "Sedimentology in the 21 st Century - A Tribute to Wolfgang Schlager". *Sedimentary Geology*, **175**, 131-152.

Reusch, T.B.H., **Ehlers, A.**, Hämmerli, A., and Worm, B., 2005: Ecosystem recovery after climatic extremes enhanced by genotypic diversity. *Proc. Natl. Acad. Sci. USA*, **102** (8), 2826-2831.

Rhein, M., and **Stramma, L.**, 2005: Seasonal variability in the Deep Western Boundary Current around the eastern tip of Brazil. *Deep-Sea Res. II*, **52**, 1414-1428.

Riedinger, N., Pfeifer, K., Kasten, S., Garming, J.F.L., Vogt, C., and **Hensen, C.**, 2005: Diagenetic processes within and below the zone of anaerobic oxidation of methane in sediments of the western Argentine Basin - focusing on iron diagenesis. *Geochim. Cosmochim. Acta*, **69**(16), 4117-4126.

Rietbroek, A., Haberland, C., Dahm, T., Bataille, K., Tilmann, F., **Flueh, E.R.**, Lange, D., Hofmann, S., Scherbaum, F., Asch, G., and Hermosilla, G., 2005: Studying the Seismogenic Coupling Zone with a Passive Seismic Array. *EOS Transactions*, **86** (32), 293 & 297.

Rost, B., Richter, K.-U., **Riebesell, U.**, and Hansen, P.J., 2005: Inorganic carbon acquisition in red-tide dinoflagellates. *Plant Cell and Environment*, **28**, doi: 10.1111/j.1365-3040.2005.01450.x.

Roth, S., and **Reijmer, J.J.G.**, 2005: Holocene millennial to centennial carbonate cyclicity recorded in slope sediments of Great Bahama Bank and its climatic implications. *Sedimentology*, **52**, 161-181, doi: 10.1111/j.1365-3091.2004.00684.

Rothäusler, E., Macaya, E.C., Molis, M., **Wahl, M.**, and Thiel, M., 2005: Laboratory experiments examining inducible defense show variable responses of temperate brown and red macroalgae. *Rev. Chil. Hist. Nat.*, **78** (4), 603-614.

Sahling, H., **Wallmann, K.**, Dähmann, A., **Schmaljohann, R.**, and **Petersen, S.**, 2005: The physicochemical habitat of *Sclerolium* sp., at Hook Ridge hydrothermal vent, Bransfield Strait, Antarctica. *Limnol. & Oceanogr.*, **50** (2), 598-606.

Sallarès, V., Charvis, P., **Flueh, E.R.**, **Bialas, J.**, and Party, S.S., 2005: Seismic Structure of the Carnegie Ridge and the nature of the Galapagos hotspot. *Geophysical Journal International*, **161** (3), 763-788.

Savel'ev, D.P., Palechek, T.N., and **Portnyagin, M.V.**, 2005: Campanian oceanic siliceous-volcanogenic deposit in the basement of the East Kachatka volcanic belt. *Geology of the Pacific Ocean*, **24** (2), 46-54.

Schlimme, I., **Macke, A.**, and Reichardt, J., 2005: The impact of ice crystal shapes, size distributions and spatial structures of cirrus clouds on solar radiative fluxes. *J. Atmos. Sci.*, **62** (7), 2274-2283.

Schmale, O., **Greinert, J.**, and **Rehder, G.**, 2005: Methane emission from high-intensity

marine gas seeps in the Black Sea into the atmosphere. *Geophys. Res. Lett.*, **32**, L07609, doi: 10.1029/2004GL021138.

Schmidt, M., **Hensen, C.**, Mörz, T., Müller, C., **Grevenmeyer, I.**, **Wallmann, K.**, **Mau, S.**, and Kaul, N., 2005: Shallow surface methane hydrate accumulation and methane release related to mud volcanism at "Mound 11" (Costa Rica forearc). *Marine Geology*, **216** (1-2), 83-100.

Schmincke, H.-U., and Hlawatsch, S., 2005: Magma, Vulkane und Vulkangesteine. *Naturwissenschaften im Unterricht Chemie*, **86**, 22-25.

Schmittner, A., **Latif, M.**, and **Schneider, B.**, 2005: Model projections of the North Atlantic thermohaline circulation for the 21st century assessed by observations. *Geophys. Res. Lett.*, **32**, L23710, doi: 10.1029/2005GL024368.

Schneider, B., **Karstensen, J.**, Oschlies, A., and Schlitzer, R., 2005: Model-based evaluation of methods to determine C:N and N:P regeneration ratios from dissolved nutrients. *Global Biogeochemical Cycles*, **19**, GB2009, doi: 10.1029/2004GB002256.

Scholten, J., **Fietzke, J.**, Mangini, A., Stoffers, P., Rixen, T., Gaye-Haake, B., Blanz, T., Ramaswamy, V., Siricko, F., Schulz, H., and Ittekkot, V., 2005: Radionuclide Fluxes in the Arabian Sea: The role of particle composition. *Earth and Planetary Science Letters*, **230**, 319-337.

Schöne, B. R., Fiebig, J., **Pfeiffer, M.**, Gleß, R., Hickson, J., Johnson, A. L. A., Dreyer, W., and Oschmann, W., 2005: Climate records from a bivalved Methuselah (*Arctica islandica*, Mollusca; Iceland). Special Issue. In: Schöne, B.R., and Surge, D. (Eds): Looking back over Skeletal Diaries - High-resolution Environmental Reconstructions from Accretionary Hard Parts of Aquatic Organisms. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **228**, 130-148.

Schöne, B.R., Dunca, E., Fiebig, J., and **Pfeiffer, M.**, 2005: Mutvei's solution: an ideal agent for resolving microgrowth structures of biogenic carbonates. Special Issue. In: Schöne, B.R., and Surge D. (Eds): Looking back over Skeletal Diaries - High-resolution Environmental Reconstructions from Accretionary Hard Parts of Aquatic Organisms. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **228**, 149-166.

Schöne, B.R., **Pfeiffer, M.**, Pohlmann, M., and Siegmund, F., 2005: A seasonally resolved bottom water temperature record for the period of AD 1866-2002 based on shells *Arctica islandica* (Mollusca, North Sea). *International Journal of Climatology*, **25**, 947-962, doi: 10.1002/joc. 1174.

Schönfeld, J., and Altenbach, V.A., 2005: Late Glacial to Recent distribution pattern of deep-water *Uvigerina* species in the northeastern Atlantic. *Marine Micropaleontology*, **57** (1-2), 1-24, doi: 10.1016/j.marmicro.2005.05.004.

Schott, F., 2005: Shallow overturning circulation of the Western Indian Ocean. *Phil. Trans. Roy. Soc. A*, **363**, 143-149.

Schott, F., **Dengler, M.**, **Zantopp, R.J.**, **Stramma, L.**, **Fischer, J.**, and **Brandt, P.**, 2005: The shallow and deep western boundary circulation of the South Atlantic at 5-11°S. *J. Phys. Oceanogr.*, **35**, 2031-2053.

Schramm, B., **Devey, C.W.**, Gillis, K.M., and

- Lackschewitz, K.S.**, 2005: Quantitative assessment of chemical and mineralogical changes due to progressive low-temperature alteration of East Pacific Rise basalts from 0 to 9 Ma. *Chemical Geology*, **218** (3-4), 281-313.
- Schwarz, S., Klügel, A., **Bogaard, P.v.d.**, and **Geldmacher, J.**, 2005: Internal structure of a volcanic rift system in the eastern North Atlantic: The Desertas rift zone, Madeira archipelago. *Journal of Volcanology and Geothermal Research*, **141** (1-2), 123-155.
- Schwarzkopf, L.M., **Schmincke, H.-U.**, and Cronin, S.J., 2005: A conceptual model for block-and-ash flow basal avalanche transport and deposition, based on deposit architecture of 1998 and 1994 Merapi flows. *Journal of Volcanology and Geothermal Research*, **139** (1-2), 117-134.
- Schweckendiek, U.**, and **Willebrand, J.**, 2005: Mechanisms Affecting the Overturning Response in Global Warming Simulations. *J. Climate*, **18** (23), 4925-4936.
- Seiter, K., **Hensen, C.**, and Zabel, M., 2005: Benthic Carbon Mineralization on a Global Scale. *Glob. Biogeochem. Cycles*, **19**, GB1013, doi: 10.1029/2004GB002225.
- Seiter, K., **Hensen, C.**, Schröter, J., and Zabel, M., 2005: Regionalization of the organic carbon content in surface sediments defining a new approach of benthic biogeochemical provinces. *Deep-Sea Research I*, **51**, 2001-2026.
- Siddall, M., Stocker, T.F., Henderson, G.M., Edwards, N.R., Müller, S.A., Joos, F., and **Frank, M.**, 2005: $^{231}\text{Pa}/^{230}\text{Th}$ fractionation by ocean transport, biogenic particle flux and particle type. *Earth Planet. Sci. Lett.*, **237**, 135-155.
- Siedler, G.**, Armi, L., and **Müller, T.J.**, 2005: Meddies and decadal changes at the Azores Front from 1980 to 2000. *Deep-Sea Res. II*, **52** (3-4), 583-604.
- Simstich, J., Erlenkeuser, H., Harms, I., **Spielhagen, R.F.**, and Stanovoy, V., 2005: Moder and Holocene hydrographic characteristics of the shallow Kara Sea shelf (Siberia) as reflected by stable isotopes of bivalves and benthic foraminifera. *Boreas*, **34**, 252-263.
- Simstich, J., Harms, I., Karcher, M., Erlenkeuser, H., Stanovoy, V., Kodina, L., **Bauch, D.**, and **Spielhagen, R.F.**, 2005: Recent freshening in the Kara Sea (Siberia) recorded by stable isotopes in Arctic bivalve shells. *J. Geophys. Res.*, **110**, C08006, doi: 10.1029/2004JC002722.
- Sommer, F., **Saage, A.**, Santer, B., **Hansen, T.**, and **Sommer, U.**, 2005: Linking foraging strategies of marine calanoid copepods to patterns of nitrogen stable isotope signatures in a mesocosm study. *Mar. Ecol. Prog. Ser.*, **286**, 99-106.
- Sommer, U.**, and Frenzel, P., 2005: The Southern Baltic Sea and its coast in transition. *Aquat. Sci.*, **67**, 129-131.
- Sommer, U.**, **Hansen, T.**, Blum, O., Holzner, N., Vadstein, O., and Stibor, H., 2005: Copepod and microzooplankton grazing in mesocosms fertilised with different Si:N ratios: no overlap between food spectra and Si:N influence on zooplankton trophic level. *Oecologia*, **142**, 274-283.
- Spielhagen, R.F.**, Siegert, C., and Erlenkeuser, H., 2005: History of freshwater runoff across the Laptev Sea (Arctic) during the last deglaciation. *Global and Planetary Change*, **48**, 187-207, doi: 10.1016/j.gloplacha.2004.12.013.
- Stick, C., **Krüger, K.**, **Schade, N.H.**, Sandmann, H., and **Macke, A.**, 2005: Episode of unusual high solar ultraviolet radiation in central Europe due to dynamical reduced stratospheric ozone in May 2005. *Atmospheric Chemistry and Physics Discussions*, **5**, 10409-10420.
- Storch, S.**, **Wilson, R.P.**, Hillis-Starr, Z.-M., and **Adelung, D.**, 2005: Cold-blooded divers: Temperature-dependent dive performance in wild Hawksbill Turtles *Eretmochelys imbricata*. *Mar. Ecol. Prog. Ser.*, **293**, 263-271.
- Stramma, L.**, **Hüttl, S.**, and **Schafstall, J.**, 2005: Water masses and currents in the upper tropical Northeast Atlantic off northwest Africa. *J. Geophys. Res.*, **110**, C12006, doi: 10.1029/2005JC002939.
- Stramma, L.**, Rhein, M., **Brandt, P.**, **Dengler, M.**, **Böning, C.W.**, and **Walter, M.**, 2005: Upper ocean circulation in the western tropical Atlantic in boreal fall 2000. *Deep-Sea Res. I*, **52**, 221-240.
- Taldenkova E., **Bauch H.A.**, Stepanova A., Dem'yankov S., and Ovsepyan A., 2005: Last postglacial environmental evolution of the Laptev Sea shelf as reflected in molluscan, ostracodal and foraminiferal faunas. *Global and Planetary Change*, **48** (1-3), 223-251, doi: 10.1016/j.gloplacha.2004.12.015.
- Tanhua, T.**, and Olsson, K.A., 2005: Removal and bio-accumulation of anthropogenic halogenated transient tracers in an anoxic fjord. *Marine Chemistry*, **94** (1-4), 27-41, doi: 10.1016/j.marchem.2004.07.009.
- Tanhua, T.**, and **Wallace, D.W.R.**, 2005: Consistency of TTO-NAS Inorganic Carbon Data with modern measurements. *Geophysical Research Letters*, **32**, L14618, doi: 10.1029/2005GL032348.
- Tanhua, T.**, Bulsiewicz, K., and Rhein, M., 2005: Spreading of Overflow Water from the Greenland to the Labrador Sea. *Geophysical Research Letters*, **32**, L10605, doi: 10.1029/2002GL022700.
- Tanhua, T.**, Olsson, K.A., and Jeansson, E., 2005: Formation of Denmark Strait Overflow Water and its hydro-chemical composition. *Journal of Marine Systems*, **57**, 264-288, doi: 10.1016/j.jmarsys.2005.05.003.
- Teichert, B.M.A., Bohrmann, G., and **Suess, E.**, 2005: Chemoherms on Hydrate Ridge - Unique microbially-mediated carbonate build-ups growing into the water column. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **227**, 67-85.
- Teichert, B.M.A., **Gussone, N.**, **Eisenhauer, A.**, and Bohrmann, G., 2005: Clathrites - Archives of near-seafloor pore fluid evolution ($\delta^{44/40}\text{Ca}$, $\delta^{13}\text{C}$, $\delta^{18}\text{O}$) in gas hydrate environments. *Geology*, **33** (3), 213-216.
- Teichert, B.M.A., Torres, M.E., Bohrmann, G., and **Eisenhauer, A.**, 2005: Fluid sources, fluid pathways and diagenetic reactions across an accretionary prism revealed by Sr and B geochemistry. *Earth and Planetary Science Letters*, **239** (1-2), 106-121.
- Tengberg, A., Hall, P.O.J., Andersson, U., Lindén, B., Styrenius, O., Boland, G., de Bovee, F., Carlsson, B., Ceradini, S., Devol, A., Duineveld, G., Friemann, J.-U., Glud, R.N., Khripounoff, A., Leather, J., **Linke, P.**, Lund-Hansen, L., Rowe, G., Santschi, P., de Wilde, P., and Witte, U., 2005: Intercalibration of benthic flux chambers II. Hydrodynamic characterization and flux comparisons of 14 different designs. *Marine Chemistry*, **94**, 147-173.
- Testor, P.**, and Gascard, J.-C., 2005: Large scale

flow separation and mesoscale eddy formation in the Algerian Basin. *Progr. Oceanogr.*, **66**, 211-230.

Testor, P., Beranger, K., and Mortier, L., 2005: Modelling the deep eddy field in the Southwestern Mediterranean: The life cycle of Sardinian eddies. *Geophys. Res. Lett.*, **2**, L13602, doi: 10.1029/2004GL022283.

Testor, P., Send, U., Gascard, J.-C., Millot, C. Taupier-Letage, I., and Béranger, K., 2005: The mean circulation of the southwestern Mediterranean Sea - the Algerian Gyres. *J. Geophys. Res.*, **110**, C11017, doi: 10.1029/2004JC002861.

Thierer, P.O., Flueh, E.R., Kopp, H., Tilmann, F., Comte, D., and Contreras, S., 2005: Local earthquake monitoring offshore Valparaíso, Chile. *Neues Jahrbuch für Geologie und Paläontologie - Abhandlungen*, **236** (1-2), 173 - 183.

Timm, O., Pfeiffer, M., and **Dullo, W.-C.**, 2005: Nonstationary ENSO-precipitation teleconnection over the equatorial Indian Ocean documented in a coral from the Chagos Archipelago. *Geophys. Res. Lett.*, **32** (2), L02701, doi: 10.1029/2004GL021738.

Timmermann, A., An, S.-I., **Krebs, U.**, and Goosse, H., 2005: ENSO suppression due to weakening of the North Atlantic thermohaline circulation. *J. Climate*, **18**, 2842-2859.

Tishchenko, P., **Hensen, C., Wallmann, K.**, and Wong, C.S., 2005: Calculation of the stability and solubility of methane hydrate in seawater. *Chem. Geol.*, **219**, 37-52.

Torres, M.E., **Wallmann, K.**, Tréhu, A.M., Bohrmann, G., Borowski, W.S., and Tomaru, H., 2005: Reply to comment on „Gas hydrate growth, methane transport, and chloride enrichment at the southern summit of Hydrate Ridge, Cascadia margin off Oregon. *Earth and Planetary Science Letters*, **239**, 168-175.

Treguier, A.-M., Thettn, S., Chassignet, E., Penduff, T., Smith, R., Talley, L., Beismann, J.-O., and **Böning, C.W.**, 2005: The North Atlantic subpolar gyre in four high resolution models. *J. Phys. Oceanogr.*, **35**, 757-774.

Tripathi, J.K., **Bock, B.**, Rajamani, V., and **Eisenhauer, A.**, 2005: Ca & Sr dynamics in the Indogangetic plains: different sources and mobilization processes in northwestern India. *Current Science*, **87** (10), 1453-1458.

Tripathi, J.K., **Bock, B.**, Rajamani, V., and **Eisenhauer, A.**, 2005: Is river Ghaggar, Saraswati? Geochemical constraints. *Current Science*, **87** (8), 1141-1145.

Trippel, E.A., **Kraus, G.**, and Köster, F.W., 2005: Maternal and paternal influences on early life history traits and processes of Baltic cod *Gadus morhua*. *Mar. Ecol. Prog. Ser.*, **303**, 259-267.

Valdivia, N., Heidemann, A., Thiel, M., Molis, M., and **Wahl, M.**, 2005: Disturbance and diversity in hard-bottom macrobenthic communities at the coast of Chile. *Mar. Ecol. Prog. Ser.*, **299**, 45-54.

Vecchione, M., Allcock, A.L., and **Piatkowski, U.**, 2005: Unusual incirrate octopods from the South Shetland Islands, Antarctica, including *Bathypurpurata profunda*, a newly discovered genus and species of deepwater pygmy octopod (Cephalopoda). *Phuket. Mar. Biol. Centre. Res. Bull.*, **66**, 109-116.

Veldhuis, M.J.W., Timmermans, K.R., **Croot, P.**, and van der Wagt, B., 2005: Picophytoplankton; a comparative study of their biochemical

composition and photosynthetic properties. *Journal of Sea Research*, **53**, 7-24.

Walter, S., Peeken, I., Lochte, K., Webb, A., and **Bange, H.W.**, 2005: Nitrous oxide measurements during EIFEX, the European Iron Fertilization Experiment in the subpolar South Atlantic Ocean. *Geophys. Res. Lett.*, **32**, L23613, doi: 10.1029/2005GL024619.

Walter, T.R., Troll, V.R., Cailleau, B., Belousov, A., **Schmincke, H.-U., Bogaard, P.v.d.**, and Amelung, F., 2005: Rift zone reorganization through flank instability in ocean island volcanoes: an example from Tenerife, Canary Islands. *Bulletin of Volcanology*, **67** (4), 281-291.

Waniek, J.J., Schulz-Bull, D.E., Blanz, T., Prien, R.D., Oschlies, A., and **Müller, T.J.**, 2005: Interannual variability of deep water particle flux in relation to production and lateral sources in the northeast Atlantic. *Deep Sea Res. I*, **52**, 33-50.

Weber, L., Völker, C., Schartau, M., and Wolf-Gladrow, D.A., 2005: Modeling the speciation and biogeochemistry of iron at the Bermuda Atlantic Time-series Study site. *Global Biogeochemical Cycles*, **19** (1), GB1019, doi: 10.1029/2004GB002340.

Wegner, C., Hölemann, J.A., Dmitrenko, I., Kirillov, S., and **Kassens, H.**, 2005: Seasonal variations in arctic sediment dynamics evidence from one-year records in the Laptev Sea (Siberian Arctic). *Global and Planetary Change*, **48** (1-3), 126-140, doi: 10.1016/j.gloplacha.2004.12.009.

Weinberger, F., Leonardi, P., Miravalles, A., Correa, J.A., Lion U., Kloareg, B., and Potin, P., 2005: Dissection of two distinct defense-related responses to agar oligosaccharides in *Gracilaria chilensis* (Rhodophyta) and *Gracilaria conferta* (Rhodophyta). *J. Phycol.*, **41**, 863-873.

Weinberger, F., Pohnert, G., Berndt, M.L., Bouarab, K., Kloareg, B., and Potin, P., 2005: Apoplastic oxidation of L-asparagine is involved in the control of the green algal endophyte *Acrochaete operculata* Correa and Nielsen by the red seaweed *Chondrus crispus* Stackhouse. *J. Exp. Bot.*, **56**, 1317-1326.

Weinrebe, W., and **Klaucke, I.**, 2005: Surveying Deep-water Seeps at Convergent Continental Margins. *Hydro International*, **9** (1), 54-57.

Wilson, R., **Reuter, P.**, and **Wahl, M.**, 2005: Muscling in on mussels: new insights into bivalve behaviour using vertebrate remote-sensing technology. *Mar. Biol.*, **147**, 1165-1172.

Wilson, R.P., Scolaro, J.A., **Grémillet, D.**, **Kierspel, M.A.M.**, Laurenti, S., Upton, J., Gallelli, H., Quintana, F., Frere, E., Müller, G., Thor Straten, M., and Zimmer, I., 2005: Distance limits in central place foragers: How do Magellanic Penguins *Spheniscus magellanicus* cope with prey variability over the species distributional range? *Ecol. Monogr.*, **75**, 379-401.

Witten, P.E., Gil-Martens, L., Hall, B.K., Huysseune, A., and Obach, A., 2005: Compressed vertebrae in Atlantic salmon (*Salmo salar*): Evidence for metaplastic chondrogenesis as a skeletogenic response late in ontogeny. *Dis. Aquat. Organ.*, **64**, 237-246.

Witten, P.E., Hall, B.K., and Huysseune, A., 2005: Are breeding teeth in Atlantic salmon a component of the drastic alterations of the oral facial skeleton? *Arch. Oral Biol.*, **50**, 213-217.

- Worm, B., **Sandow, M.**, Oschlies, A., Lotze, H.K., and Myers, R.A., 2005: Global Patterns of Predator Diversity in the Open Oceans. *Science*, **309**, 1365-1369.
- Yamashita, N., Kannan, K., Taniyasu, S., Horii, Y., **Petric, G.**, and Gamo, T., 2005: A global survey of perfluorinated acids in the oceans. *Marine Pollution Bulletin*, **51**, 658-668.
- Zeller, D., **Froese, R.**, and Pauly, D., 2005: On losing and recovering fisheries and marine science data. *Mar. Policy*, **29**, 69-73.
- Zenk, W.**, **Siedler, G.**, Ishida, A., Holfort, J., Kashino, Y., Kuroda, Y., Miyama, T., and **Müller, T.J.**, 2005: Pathways and variability of the Antarctic Intermediate Water in the western equatorial Pacific Ocean. *Progr. Oceanogr.*, **67**, 245-281.
- Zhang, R.-H., Kleeman, R., Zebiak, S.E., **Keenlyside, N.**, and Raynaud, S., 2005: An Empirical Parameterization of Subsurface Entrainment Temperature for Improved SST Anomaly Simulations in an Intermediate Ocean Model. *J. Climate*, **18** (2), 350-371.
- Zhang, R.-H., Zebiak, S.E., Kleeman, R., and **Keenlyside, N.**, 2005: Retrospective El Niño hindcasts/forecasts using an improved intermediate coupled model. *Mon. Weath. Rev.*, **133**, 2777-2802.
- Zillmer, M.**, **Flueh, E.R.**, and **Petersen, J.**, 2005: Seismic investigation of a bottom simulating reflector and quantification of gas hydrate in the Black Sea. *Geophysical Journal International*, **161** (3), 662-678.
- Zillmer, M.**, **Reston, T.J.**, Leythaeuser, T., and **Flueh, E.R.**, 2005: Imaging and quantification of gas hydrate and free gas at the Storegga Slide offshore Norway. *Geophysical Research Letters*, **32**, L04308.
- Zinke, J., **Pfeiffer, M.**, Timm, O., **Dullo, W.-Chr.**, and Davies, G.R., 2005: Atmosphere-ocean dynamics in the Western Indian Ocean recorded in corals. One contribution of 24 to a Discussion Meeting 'Atmosphere-ocean-ecologydynamics in the Western Indian Ocean'. *Phil. Trans. R. Soc. Lond. (A)*, **363** (1826), 121-142, doi: 10.1098/rsta.2004.1482.
- Zinke, J., **Reijmer, J.**, Taviani, M., **Dullo, W.-Chr.**, and Thomassin, B.A., 2005: Facies and faunal assemblage changes in response to the Holocene transgression in the Lagoon of Mayotte (Comoro Archipelago, SW Indian Ocean). *Facies*, **50** (3/4), 391-408, doi: 10.1007/s10347-004-0040-7.
- Zumholz, K.**, and **Piatkowski, U.**, 2005: Research cruise data on the biology of the lesser flying squid, *Todaropsis eblanae* in the North Sea. *Aquat. Living Resour.*, **18**, 373-376.
- ## 5.5 Other (non-reviewed) Publications (33)
- Bauch, H.A.**, Pavlidis Y.A., Polyakova Y.I., Matishov G.G., and Koç N., 2005: Pechora Sea Environments: Past, Present, and the Future. *Reports on Polar and Marine Research*, **501**, 247.
- Bumke, K.**, Clemens, M., Fischer, B., Peters, G., Graßl, H., Pang, S., Seltmann, J., and Wagner, A., 2005: APOLAS – More accurate areal precipitation over land and sea. *BALTEX-Newsletter No. 8*, GKSS, Geesthacht, Germany, 8-10.
- Bumke, K.**, and Rubel, F., 2005: Precipitation over the BALTEX area. In: Jacob, D., and Omstedt, A (Eds.): *BALTEX PHASE I - 1993-2002*, State of the Art Report. Forschungsbericht. International BALTEX Secretariat, Publication No 31, 83-91. GKSS Forschungszentrum, Geesthacht, Germany. ISSN 1681-6471.
- Dengler, M.**, and **Eden, C.**, 2005: Wirbel in der Tiefsee. *Spektrum der Wissenschaft*, Juni, 16-20.
- Dullo, W.-Chr.**, Biebow, N., Baranov, B., **Werner, R.**, **Lembke-Jene, L.**, and SO178-Scientific Party: SO178 KOMEX: Stoffaustauschprozesse und -bilanzen im Ochotskischen Meer: Hintergrund und erste Ergebnisse. In: *Tagungsband SONNE* Statusseminar, 29-32, BMBF Statusseminar "Meeresforschung mit FS SONNE", Warnemünde, 09.03.-11.03.2005.
- Croot, P.L.**, and **Bluhm, K.**, 2005: H₂O₂ dynamics during a mesoscale iron enrichment in the Southern Ocean. *Berichte zur Polarforschung*, Alfred-Wegener-Institut für Polar- und Meeresforschung, Bremerhaven, **500**, 46-50.
- Croot, P.L.**, **Bluhm, K.**, **Breitbarth, E.**, and Öztürk, M., 2005: Temporal changes in iron speciation during a mesoscale iron enrichment experiment. *Berichte zur Polarforschung*, Alfred-Wegener-Institut für Polar- und Meeresforschung, Bremerhaven, **500**, 50-55.
- Croot, P.L.**, and Öztürk, M., 2005: Changes in the speciation and biogeochemical cycling of other trace metals during EIFeX. *Berichte zur Polarforschung*, Alfred-Wegener-Institut für Polar- und Meeresforschung, Bremerhaven, **500**, 55-58.
- Croot, P.L.**, 2005: Surface-active organic matter in the upper water column during EIFeX, a mesoscale open ocean iron enrichment experiment in the Southern Ocean. *Berichte zur Polarforschung*, Alfred-Wegener-Institut für Polar- und Meeresforschung, Bremerhaven, **500**, 59-61.
- Fietzke, J.**, **Liebetrau, V.**, **Eisenhauer, A.**, and **Dullo, W.-Chr.**, 2005: Determination of uranium isotope ratios by multi-static MIC-ICP-MS: method and implementation for precise U- and Th-series isotope measurements. *J. Anal. At. Spectrom.*, **20**, 395-401.
- Haslob, H.**, Tomkiewicz, J., and **Hinrichsen, H.-H.**, 2005: Spatial and temporal variability in Baltic sprat (*Sprattus sprattus balticus* S.) batch fecundity. ICES Council Meeting, Aberdeen, UK, **Q:08**, 13 pp.
- Hauschildt, H.**, **Macke, A.**, and Schulz, J., 2005: Precipitable water in cloudy areas from combined solar, thermal, and microwave radiance measurements. *Forschungsbericht, IFM-GEOMAR, Kiel*, 136 pp.
- Hoernle, K.**, **Werner, R.**, **Hauff, F.**, and

Bogaard, P.v.d.: The Hikurangi Oceanic Plateau: A Fragment of the Largest Volcanic Event on Earth, In: *IFM-GEOMAR Report 2002-2004*, 51-54.

Hoernle, K., Hauff, F., Werner, R., and Bogaard, P., Mortimer, N., and SO168-Scientific Party: Ursprung und Entwicklung des Hikurangi Ozeanplateaus (Neuseeland): Ein Fragment des größten bekannten vulkanischen Ereignisses auf der Erde? (SO168 ZEALANDIA), In: *Tagungsband SONNE Statusseminar*, 121-124, BMBF Statusseminar "Meeresforschung mit FS SONNE", Warnemünde, 09.03.–11.03.2005.

Latif, M., 2005: Verändert der Mensch das Klima? - Diese Frage stellt sich nicht mehr. *UWSF - Zeitschrift für Umweltchemie und Ökotoxikologie*, **17** (4), 193-196.

Latif, M., 2005: Verändert der Mensch das Klima? *Der Mathematische und naturwissenschaftliche Unterricht (MNU)*, **56**, 282-286.

Latif, M., 2005: Verändert der Mensch das Klima? *Forst und Holz*, **11**, 443-446.

Legere, J.K.D., Handrigan, G., Budney, L., Cole, A.G., Fedak, T., Franz-Odenaal, T., Vickaryous, M., **Witten, P.E.**, and Hall, B.K., 2005: Something old, something new: inferring developmental mode from the fossil record. *Paleont. Assoc. Newsletter*, **58**, 26-31.

Lehmann, A., and Isemer, H.-J., 2005: BALTEX Phase II Science Framework and Implementation Strategy. *BALTEX Newsletter No. 7*, June 2005.

Lehmann, A., and Jacob, D., 2005: BALTEX GRID Pilot Study. *BALTEX Newsletter No. 8*, December 2005.

Lehmann, A., Jacob, D., and Dippner, J.W., 2005: DEKLIM Final Symposium. *BALTEX Newsletter No. 7*, June 2005.

Lehmann, A., Krauß, W., Karstensen, J., König, J., Müller, T.J., Send, U., Lass, H.U., Dietrich, R., Eberlein, L., Liebsch, G., Novotny, K., and Prandke, H., 2005: BASEWECS - Influence of the Baltic Sea and its annual ice coverage on the water and energy budget of the Baltic Sea. *BALTEX Newsletter No. 8*, December 2005.

Meyer, S., Macke, A., and Roebeling, R., 2005: Improved Retrieval of Ice Cloud Properties: *Forschungsbericht, EUMETSAT's CM-SAF*, Offenbach, Germany, 25 pp.

Omstedt, A., Elken, J., **Lehmann, A.,** and Piechura, J., 2005: Baltic Sea. In: Jacob, D., and A. Omstedt, A., (Eds.): *BALTEX PHASE I, 1993-2002 State of the art Report*. Int. BALTEX Secretariat, Pub. No. 31, 15-31.

Reuter, P., and **Wahl, M.,** 2005: Casiopeia. Proceedings 40. EMBS, Wien, Austria.

Reuter, P., Nissen, G., Weinberger, F., and **Wahl, M.,** 2005: The impact of predator presence on the shell growth of *Mytilus edulis* (L.). Proceedings 40. EMBS, Wien, Österreich.

Roebeling, R.A., Berk, A., Feijt, A.J., Frerichs, W., Jolivet, D., **Macke, A.,** and Stammes, P., 2005: Sensitivity of cloud property retrievals to differences in radiative transfer simulations. *Forschungsbericht, Royal Netherlands Meteorological Institute (KNMI)*, De Bilt, The Netherlands. (WR2005-02). 27 pp.

Rohde, S., Molis, M., and **Wahl, M.,** 2005: Defense induction in marine macroalgae: a common phenomenon? 21st Annual Meeting of the International Society of Chemical Ecology, Washington, D.C.

Rudolph, C., and **Lehmann, A.,** 2005: Temporal and spatial variability of surface

fluxes over sea ice in the northern Baltic Sea - A model-data comparison. *BALTEX Newsletter No. 7*, June 2005.

Rumohr, H., 2005: Die Geschichte der Benthosforschung in der Ostsee, *DGM-Mitteilungen*, **1-2**, 13-18.

Schmittner, A., Sarnthein, M., Kinkel, H., Bartoli, G., Bickert, T., Crucifix, M., Crudeli, D., **Groeneveld, J., Kösters, F.,** Mikolajewicz, U., Millo, D., **Reijmer, J.,** Schäfer, P., Schmidt, D., Schneider, D., Schulz, M., **Steph, S., Tiedemann, R.,** Weinelt, M., and Zuvela, M., 2005: Global impact of the Panamanian Seaway Closure. *EOS*, **85** (49), 526.

Schott, F.A., New, A.L., McCave, I.N., Laughton, A.S., Flemming, N.C., and Lloyd, I., 2005: Atmosphere-ocean-ecology dynamics in the western Indian Ocean - Discussion. *Philosophical Transactions of the Royal Society of London Series a-Mathematical Physical and Engineering Sciences*, **363** (1826), 166-168.

Zumholz, K., Hansteen, T.H., and **Piatkowski, U.,** 2005: Ba and Sr distribution in cephalopod statoliths as indicators for temperature and salinity variations - an experimental approach. *HASYLAB Annual Report, Deutsches Elektronen-Synchrotron DESY*.

Other Publications

5.6 Electronic Publications and online first (7)

Bers, A.V., Prendergast, G.S., Zürn, C.M., Hansson, L., Head, R.M., and Thomason, J.C., 2005: A comparative study of the anti-settlement properties of mytilid shells. *Biology Letters*, doi: 10.1098/rsbl.2005.0389.

Hennings, I., and Herbers, D., 2005: Radar imaging mechanism of marine sand waves at very low grazing angle illumination. *EARSeL eProceedings*, **4**, 226-240, <http://las.physik.uni-oldenburg.de/eProceedings/index2.html>.

Magill, S.H., **Thetmeyer, H.**, and Cromey, C.J., 2005: Settling velocity of faecal pellets of gilthead sea bream (*Sparus aurata* L.) and sea bass (*Dicentrarchus labrax* L.) and sensitivity analysis using measured data in a deposition model. *Aquaculture*, doi: 10.1016/j.aquaculture.2005.06.005

Masson-Delmotte, V., Kageyama, M., Braconnot, P., Charbit, S., Krinner, G., Ritz, C., Guilyardi, E., Jouzel, J., Abe-Ouchi, A., Crucifix, M.; Gladstone, R.M., Hewitt, C.D., Kitoh, A., LeGrande, A. N.; Marti, O., **Merkel, U.**, Motoi, T., Ohgaito, R.; Otto-Bliesner, B., Peltier, W.R., Ross, I., Valdes, P. J., Vettoretti, G., Weber, S.L., Wolk, F., and Yu, Y., 2005: Past and future polar amplifications of climate change: climate model intercomparisons and ice-core constraints. *Climate Dynamics*, doi: 10.1007/s00382-005-0081-9.

Rüggeberg, A., **Dullo, W.-Chr.**, Dorschel, B., and Hebbeln, D., 2005: Environmental changes and growth history of a cold-water carbonate mound (Propeller Mound, Porcupine Seabight). *International Journal of Earth Sciences - Geologische Rundschau*, doi: 10.1007/s00531-005-0504-1.

Schulz, K.G., **Riebesell, U.**, Rost, B., Thoms, S., and Zeebe, R.E., 2005: Determination of the rate constants for the carbon dioxide to bicarbonate inter-conversion in pH-buffered seawater systems. *Marine Chemistry*, doi: 10.1016/j.marchem.2005.11.001.

Sommer, U., and Sommer, F., 2005: Cladocerans versus copepods: the cause of contrasting top-down controls on freshwater and marine phytoplankton. *Oecologia*, doi: 10.1007/s00442-005-0320-0.

5.7 University Publications

Diploma (42)

Bluhm, Katrin, 2005: Investigations into the decomposition and production of H₂O₂ in seawater by Antarctic diatoms. Diplomarbeit, Universität Kiel, 60 pp.

Brandau, Christine, 2005: Einfluss der Wolkenmikrophysik auf den solaren Strahlungstransport. Diplomarbeit, Universität Kiel, 96 pp.

Broekman, Daniela, 2005: Die Auswirkungen der Nahrungsqualität auf Wachstum und Entwicklung der Garnele *Litopenaeus vannamei* unter Kulturbedingungen. Diplomarbeit, Universität Kiel, 94 pp.

David, A., 2005: The Bagaces Formation in the Guanacaste Province, Costa Rica: Refined stratigraphy and petrology. Diplomarbeit, Universität Kiel, 202 pp.

De Graaf, Sven, 2005: Synchronisation of the moulting cycle of the white shrimp (*Litopenaeus vannamei*) under culture conditions. Diplomarbeit, Universität Kiel, 69 pp.

Dürkop, Anke, 2005: Klimavariabilität im tropischen Pazifik. Diplomarbeit, Universität Kiel, 76 pp.

Ertzinger, Ralf, 2005: Simulation kleinskaliger Wolken mit GESIMA. Diplomarbeit, Universität Kiel, 70 pp.

Form, Armin, 2005: Ökophysiologische Untersuchungen an Sepien (*Sepia bandensis* & *Sepia officinalis*). Diplomarbeit Universität Kiel, 82 pp.

Gärtner, Andrea, 2005: Charakterisierung von Bakteriengemeinschaften heißer Tiefseequellen des Mittelatlantischen Rückens. Diplomarbeit, Universität Kiel, 99 pp.

Görlitz, Stefan, 2005: Neue Riffe im Wattenmeer: Die Pazifische Auster *Crassostrea gigas* und ihre assoziierte Lebensgemeinschaft. Diplomarbeit, Universität Kiel, 66 pp.

Gülden-zoph, Christine, 2005: Induzieren Herbivore Verteidigung bei Makroalgen der südafrikanischen Küste? Diplomarbeit, Universität Kiel, 62 pp.

Guse, Nils, 2005: Diet of a piscivorous top predator in the Baltic Sea - the Red-throated Diver (*Gavia stellata*) in the Pomeranian Bight. Diplomarbeit, Universität Kiel, 105 pp.

Heindl, Herwig, 2005: Antimikrobielle Wirkstoffe aus marinen Mikroorganismen (Bakterien und Pilze) assoziiert mit marinen Bryozoen. Diplomarbeit, Universität Kiel, Universität Wien, 86 pp.

Kalisch, John, 2005: Meridional Ocean Radiation Experiment MORE. Diplomarbeit, Universität Kiel, 101 pp.

Klås, Jessica, 2005: Auswirkungen erhöhter CO₂-Konzentrationen auf Mikroalgen. Diplomarbeit, Universität Kiel, 49 pp.

Lachnit, Tim, 2005: Unterscheiden sich Makroalgen in ihren bakteriellen Aufwuchsgemeinschaften? Diplomarbeit, Universität Kiel, 82 pp.

Lehmann, Catrin, 2005: Simulation von Kondensations- und Koaleszenzprozessen in Wolken. Diplomarbeit, Universität Kiel, 69 pp.

Lübbecke, Joke, 2005: Struktur und Variabilität der subtropisch-tropischen Zirkulation im Pazifik in ORCA. Diplomarbeit, Universität Kiel, 78 pp.

Mansor, S., 2005: The Post-Carbonal units of the Bagaces Formation: The Meseta de Santa Rosa (National Park Santa Rosa, Costa Rica) [Kartierung]. Diplomarbeit, Universität Kiel, 43 pp.

Marquardt, M., 2005: Refined Stratigraphy of the Bagaces Formation, Santa Rosa National Park / Costa Rica [Kartierung]. Diplomarbeit, Universität Kiel, 73 pp.

Marquardt, Mathias, 2005: Investigation of a submarine landslide off Costa Rica – Reconstruction of the date and the sedimentary and geochemical development the BGR-landslide. Diplomarbeit, Universität Kiel, 65 pp.

Nagel, Kerstin, 2005: Produktionsoptimierung eines von *Penicillium chrysogenum* gebildeten biologisch aktiven Wirkstoffs. Diplomarbeit Fachhochschule Flensburg, 60 pp.

Numberger, Lea, 2005: Beobachtung und Bewertung einer Frühjahrsblüte in der Kieler Bucht, des Phytodetrituseintrags ins Benthos und die Reaktion der Benthosforaminiferen-Gemeinschaften. Diplomarbeit, Univ. Kiel, 69 pp.

Ober-Bloibaum, Tim, 2005: Verifizierung des REMO-Niederschlags im Ostseebereich. Diplomarbeit, Universität Kiel, 118 pp.

Otto, Anne, 2005: Quantifizierung der orografischen Verstärkung von Niederschlägen in Mittelgebirgen am Beispiel des Erzgebirges. Diplomarbeit, Universität Kiel, 99 pp.

Renner, Stefanie, 2005: Simulation der letzten Eiszeit mit ECHAM5: Sensitivität gegenüber Randbedingungen und Modellauflösung. Diplomarbeit, Universität Kiel, 102 pp.

Schade, Nils H., 2005: Experimentelle Erfassung und Interpretation der solaren Einstrahlung bei durchbrochener Bewölkung. Diplomarbeit, Universität Kiel, 93 pp.

Scharffenberg, Martin, 2005: Analyse hochaufgelöster Zeitserien der Wassermassenvariabilität im tropischen Nord-West-Atlantik. Diplomarbeit, Universität Kiel, 68 pp.

Schlösser, Fabian, 2005: The Effect of Topography on the Seasonal Cycle of Circulation and Propagation of Planetary Waves: A Simplified Model Study. Diplomarbeit, Universität Kiel, 72 pp.

Schnell, Johanna, 2005: Trophic structure of meiobenthic communities in sediments hosting shallow gas hydrates at Hydrate Ridge, Cascadia convergent margin. (Betreuung: S. Sommer & Schmidt-Araya, Queen-Mary and Westfield College, School of Biological Sciences, University of London)

Semm, W., 2005: Pliocene ignimbrites (Formación Bagaces) around Cañas, Guanacaste, Costa Rica [Kartierung]. Diplomarbeit, Universität Kiel, 33 pp.

Spindler, Gitta, 2005: Composition of hard-bottom communities in a frequency-gradient of mechanical disturbance. Diplomarbeit, Universität Kiel, 67 pp.

Stemmler, Irene, 2005: A statistical atmosphere model. Diplomarbeit, Universität Kiel, 107 pp.

Tank, Marcus, 2005: Vorkommen von Genen des dissimilatorischen Stickstoff-Stoffwechsels im Atlantischen Ozean. Diplomarbeit, Universität Kiel, 93 pp.

Teschner, Eske, 2005: Ansätze zur Verbesserung der fischereilichen Mehrartenmodellierung in der zentralen Ostsee. Diplomarbeit, Universität

Kiel, 117 pp.

Thieme, Mirko, 2005: Auswertung von Korallendaten zur Untersuchung der klimatischen Verhältnisse im tropischen Atlantik. Diplomarbeit, Universität Kiel, 43 pp.

Wagner, G., 2005: Thermohaline Strukturen am Beispiel reflexionsseismischer Profile vor der Iberischen Halbinsel. Diplomarbeit, Universität Kiel, 128 pp.

Weigel, Katja, 2005: On the wind stress and air-sea interaction over the Barents Sea. Diplomarbeit, Universität Kiel, 78 pp.

Wetzel, Falko, 2005: Zum Einfluss von Düngung und Störung auf Diversität und Produktivität von Foulinggemeinschaften. Diplomarbeit, Universität Kiel, 63 pp.

Wohlert, Julia, 2005: Effect of temperature on the production and fate of dissolved organic matter in a microalgal culture. Diplomarbeit, Universität Kiel, 54 pp.

Ziegler, M., 2005: The ignimbrites of the Bagaces Formation, Santa Rosa National Park, Costa Rica [Kartierung]. Diplomarbeit, Universität Kiel, 53 pp.

Ziegler, Martin, 2005: Rapid Changes of Sea Surface and Intermediate Waters in the Gulf of Mexico during the last 150 kyr – Evidence from Foraminiferal Mg/Ca and $\delta^{18}\text{O}$. Diplomarbeit, Universität Kiel, 73 pp.

Dissertations (17)

Breitbarth, Eike, 2005: Ecophysiology of the marine cyanobacterium *Trichodesmium*. Dissertation, Universität Kiel, 149 pp.

Brepohl, Daniela, 2005: Fatty acids distribution in marine, brackish and freshwater plankton during mesocosms experiments. Dissertation, Universität Kiel, 87 pp.

Czeschel, Lars, 2005: The role of eddies for the deep-water formation in the Labrador Sea. Dissertation, Universität Kiel, 101 pp.

Frische, M., 2005: Halogenated trace compounds in fumarolic gases of the Nicaraguan subduction zone volcanoes: variation patterns, budgets and impact on the Earth's atmosphere. Dissertation, Universität Kiel, 97 pp.

Gaul, Wilhelm, 2005: Untersuchungen zur Produktion und zum mikrobiellen Umsatz von β -Dimethyl-sulphonio-propionat. Dissertation, Universität Kiel, 86 pp.

Groeneveld, Jeroen, 2005: Effect of the Pliocene closure of the Panamanian Gateway on Caribbean and east Pacific sea surface temperatures and salinities by applying combined Mg/Ca and $\delta^{18}\text{O}$ measurements (5.6 - 2.2 Ma). Dissertation, Universität Kiel, 161 pp.

Kuhnhenne, Verena, 2005: Phytoplankton induced changes of air bubble residence time in seawater. Thesis for the Degree of Doctor of Philosophy, University of Southampton, 215 pp.

Lissinna, B., 2005: A profile through the Central American Landbridge in western Panama: 115 Ma Interplay between the Galapagos Hotspot and the Central American Subduction Zone. Dissertation, Universität Kiel, 102 pp.

Ludwig, Stefan, 2005: Tauchverhalten, Wanderungen und Habitatnutzung von Grauwalen (*Eschrichtius robustus*) in der Lagune San Ignacio, Baja California Sur, Mexiko. Dissertation, Universität Kiel, 184 pp.

Munkes, Britta, 2005: Stability of seagrass systems against anthropogenic impacts.

Dissertation, Universität Kiel, 108 pp.

Saleck, Nadja, 2005: Änderung der Sturmtätigkeit über den Weltmeeren, untersucht anhand von Luftdruckbeobachtungen. Dissertation, Universität Kiel, 113 pp.

Schacht, Ulrike, 2005: Alteration of Volcanic Glasses in marine Sediments: Laboratory Experiments and Field Studies. Dissertation, Universität Kiel, 160 pp.

Schulz, Kai, 2005: Cellular inorganic carbon fluxes in the coccolithophore *Emiliana huxleyi* and its relevance for marine carbon cycling. Dissertation, Universität Bremen, 155 pp.

Steph, Silke, 2005: Pliozäne stratigraphy and the impact of Panama uplift on changes in Caribbean and tropical East Pacific upper ocean stratification (6 – 2.5 Ma). Dissertation, Universität Kiel, 158 pp, 52 figs., 10 tables, 8 appendices.

Thießen, Olaf, 2005: Bacterial Methane Formation and Distribution in Marine Environments. Dissertation, Universität Kiel, 145 pp.

Wehrmann, H., 2005: Volatile degassing and plinian eruption dynamics of the mafic Fontana Tephra, Nicaragua. Dissertation, Universität Kiel, 111 pp.

6. Scientific & Public Presentations

6.1 Invited Scientific Presentations

Avsic, T., Send, U., and Skarsoulis, E.: Six years of tomography observation in the Central Labrador Sea. International Conference Underwater Acoustic Measurements: Technologies and Results, Heraklion, Greece, 29.06.2005.

Bange, H.W.: Nitrous oxide and methane in coastal waters. Joint Chinese-German Workshop on Land-Sea Interactions along Temperate-Tropical Gradients in Chinese Coastal Waters, Beijing, China, 06.05.2005.

Bange, H.W.: Nitrous oxide in the ocean. Significant Processes, Observations, and Transformation in Oceanic Nitrogen (SPOT-ON) Conference, Warnemünde, 28.06.2005.

Bange, H.W.: Nitrous oxide in the ocean. Kolloquium Max-Planck-Institut für Chemie, Mainz, 06.12.2005.

Croot, P.L.: Importance of Trace Metal Speciation to Biogeochemical cycles in the Ocean. Leibniz-Institut für Troposphärenforschung, Leipzig, 11.07.2005.

Croot P.L.: Southern Ocean Biogeochemistry: What did we learn from the meso-scale iron enrichment experiments? Research School of Earth Sciences, Australian National University, Canberra, Australia, 15.12.2005.

Dengler, M.: Diapynische Vermischungsprozesse in den Auftriebsgebieten des tropischen Atlantiks. Sitzung des DFG-Fachkollegiums 313, Berlin, 22.07.2005.

Diekmann, R., Nellen, W., and **Piatkowski, U.:** Fish larvae and cephalopod paralarvae assemblage structures at great Meteor seamount 'a multivariate approach'. ASLO Annual Summer Meeting, Santiago de Compostela, Spain, 23.06.2005.

Dommenget, D.: Ocean Circulation and Climate Dynamics at IFM-GEOMAR, Colloquium, Ocean University of China, Qingdao, China. 23.09.2005.

Dullo, W.-Chr.: Geobiology of European continental margins: The deep-water coral reefs. EGU - 2nd General Assembly & Congress European Geosciences, Vienna, Austria, 24.04.-29.04.2005.

Dullo, W.-Chr., and **Rüggeberg, A.:** Deep-water coral growth and deep-water coral reefs: Oceanographic control. Europe's Hidden Coral World. Royal Society Meeting, Edinburgh, Scotland, 22.02.-25.02.2005.

Flögel, S.: Learning from the past, lessons for the future – planet Earth in a changing climate. Seminar, University of Newcastle upon Tyne, UK, 07.11.2005.

Flögel, S., Hay, W.W., and Soeding, E.: The Ocean Drilling Stratigraphic Network (ODSN) and the RONO Database (RONOV) - Concepts and Status. CHRONOS Workshop in Vienna, Austria, 07.04.2005.

Frank, M.: Radiogenic isotopes (Nd, Hf, Pb, (+Be)) as tracers for present and past ocean circulation and continental weathering, invited talk at the Department of Geology and Geochemistry, University of Stockholm, Sweden, 07.03.2005.

Froese, R.: Deepsea trawling: blind destruction of last frontier. 'Parliamentary lunch' meeting

about the environmental impact of deepsea trawling, Berlin, 27.04.2005.

Froese, R.: Gap analysis: What do we not know about Indo-Pacific fishes. 7th Indo-Pacific Fish Conference, Taipei, Taiwan, 16.05.2005.

Froese, R.: Life-history strategies of fishes and their relevance for ecosystem-based fisheries management. DWK/BFAFi-Workshop on Ecosystem Approach to Fisheries Management, Hamburg, 28.11.2005.

Froese, R.: Life-history strategies of recent fishes. 3rd Mini Symposium 'Fish and More', Thessaloniki, Greece, 31.08.2005.

Froese, R.: SpeciesBanks: dreams and realities. GBIF workshop "Building SpeciesBanks: How Shall we Shape the Future?", Amsterdam, Netherlands, 01.03.2005.

Gocke, K.: Estudios microbiológicos en sistemas acuáticos sin y con influencia antropogénica. Universidad de Concepción, Chile, 19.01.2005.

Gocke, K.: La importancia de las bacterias para el ciclo de la material orgánica en los sistemas acuáticos. Universidad de Concepción, Chile, 24.11.2005.

Grevenmeyer, I.: Tsunamis – Ursachen und Gefahrenpotential. Seminar der Deutschen Meteorologischen Gesellschaft Sektion Hamburg. Seewetteramt, Hamburg, July 2005.

Hanel, R.: Fisheries genetics and evolutionary thinking: the use of mitochondrial DNA in fisheries science. Kolloquium of the Institute for Protection and Security of Citizen (IPSC), Ispra, Italy, 22.11.2005.

Hanel, R.: The effects of climate change on fish populations. First Sino-German Summer School on Marine Science, Qingdao, China, 30.09.2005.

Hillebrand, H., Gamfeldt, L., Jonsson, P., and **Matthiessen, B.:** Consumer and prey diversity effects on trophic interactions: case studies from closed and open systems. Annual Meeting of the Ecological Society of America (ESA), Montreal, Canada, 09.08.2005.

Hinrichsen, H.-H.: Development of pelagic fish stocks in the central Baltic Sea. Workshop on Recruitment failure of the Baltic coastal fish stocks, Öregrund, Sveden, 05.09.2005.

Hoernle, K., Bogaard, P., Hauff, F., Werner, R., and **Geldmacher, J.:** Origin of long-term intraplate volcanism in the Canaries, Galapagos and New Zealand: Which are consistent with the plume hypothesis? AGU Chapman Conference: The Great Plume Debate, Fort William, Scotland, UK, 28.08.-01.09.2005.

Hoernle, K., Hauff, F., Bogaard, P., Werner, R., and Mortimer, N.: The Hikurangi oceanic plateau: Another large piece of the largest volcanic event on earth, In: *Geochimica et Cosmochimica Acta*, **69** (10), Supplement 1, A96. Goldschmidt Conference, Moscow, Idaho, USA, 21.05.-25.05.2005.

Hoppe, H.-G., and Jürgens, K.: Phytoplankton – bacteria interactions in temperature controlled mesocosms: Aquashift, a new project in climate research. Universidade de Aveiro, Portugal, 16.06.2005.

Hoppe, H.-G., Gocke, K., and **Koppe, R.:** Bacterioplankton growth characteristics on the large spatial scale: Oligotrophic versus eutrophic ocean. ASLO-Symposium, Santiago de Compostela, Spain, 22.06.2005.

Scientific Presentations

- Hoppe, H.-G.:** Microbiological aspects of anoxia: Anoxic basins in the ocean and microbial mats. Sino-German Summer School, China Ocean University, Qingdao, China, 24.09.2005.
- Imhoff, J.F., and Süling, J.:** Biology of Phototrophic Bacteria. Microbiological research at IFM-GEOMAR. DAAD Austauschprogramm. Fawaharlal Nehru Technological University, Hyderabad, Kukatpally, India, 17.11.2005.
- Imhoff, J.F., and Wiese, J.:** Microbial research at IFM-GEOMAR, Kiel. The Key Laboratory for Microbial Resources, Ministry of Education, Yunnan Institute of Microbiology, Yunnan University, Kunming, China, 01.03.2005.
- Imhoff, J.F.:** Federal Funding for Blue Biotechnology Research – Excellence cluster BIOTECmarin. BlueBioNet Congress, Bremerhaven, 14.06.2005.
- Imhoff, J.F.:** Isolierung und Charakterisierung neuer Wirkstoffe aus *Laminaria saccharina*, *Halichondria panicea* und assoziierten Mikroorganismen. Neues aus dem Meer, Workshop, WTSH, Büsum, 08.06.2005.
- Kassens, H.,** Andersen, L., Barber, D., **Bauch, H.,** Deming, J., Dmitrenko, I., Eicken, H., Lisitzin, A.P., Moore, S., Wassmann, P., **Wegner, C.,** and Zhao, J.: The Arctic shelf seas. International Conference on Arctic Research Planning (ICARP II), Copenhagen, Denmark, 10.11.-12.11.2005.
- Kassens, H.:** DAAD-Studienangebote deutscher Hochschulen im Ausland: POMOR. DAAD-Tagung „Studienangebote im Ausland: Deutsche Hochschulen im internationalen Wettbewerb“, Berlin, 01.03.-02.03.2005.
- Kassens, H.,** Dmitrenko, I., Hoelemann, J.A., Kirillov, S., Priamikov, S., Thiede, J., Timokhov, L., and **Wegner, C.:** Seafloor observatories in Russian polynyas. 7th Arctic Science Summit Week, Kunming, China, 17.04.-24.04.2005.
- Kassens, H.** and the members of the ICARP II WG Arctic Shelf Seas: Transport and exchange at interfaces in the Arctic Ocean (coast-ocean, shelf-slope, deep-sea). Workshop of ICARP II WG Margins and Gateways, Paris, France, 31.01.-02.02.2005.
- Klaucke, I.,** Sahling, H., **Weinrebe, W.,** Bohrmann, G. and **Ivanov, M.K.:** Mud volcanoes and other types of cold seeps in the Black Sea: morphologies, settings and processes. CIESM Workshop 29, Bologna, Italy, 19.10.-22.10.2005.
- Körtzinger, A.:** Der Ozean im Zeitalter des Anthropozäns – eine Betrachtung aus biogeochemischer Perspektive. Meeresumwelt-Symposium 2005 „Aktuelle Probleme der Meeresumwelt“, Hamburg, 08.06.2005.
- Kopp, H.,** Flueh, E.R., **Wittwer, A.,** Barckhausen, U., Wagner, D., **Papenberg, C.,** **Petersen, J.,** and the Meramex-Working Group: Geophysikalische Untersuchungen der Sunda-Subduktionszone vor Zentral-Java: Erste Ergebnisse der SONNE-Fahrten SO176 & SO179. SONNE-Statusseminar, Bremen, 09.03.-11.03.2005.
- Kossak, U.:** Simulating the future: the effect of climate change on Baltic blue mussels. BIOBOMBE Annual Meeting, Hel, Poland, 21.05.2005.
- Kraus, G.:** The value of marine protected areas. DWK workshop on “Ecosystem Approach to Fisheries Management.” Bundesforschungsanstalt für Fischerei, Hamburg, 28.11.2005.
- Lampitt, R.,** Edwards, M., **Karstensen, J.,** Meinecke, G., **Müller, T.,** **Send, U.:** A fully functioning observatory network in the Northeast Atlantic. 4th EuroGOOS conference, Brest, France, 06.06.-09.06.2005.
- Latif, M.:** Predictability of decadal timescales. Royal Met. Society, Biennial Meeting Exeter, UK, 13.09.2005.
- Latif, M.:** Interannual to interdecadal variability in the tropical Atlantic. Tropical Atlantic Ocean Dynamics Workshop, Venice, Italy, 10.10.2005.
- Lehmann, A.:** Potential Impact of climate change on circulation and hydrography of the Baltic Sea. BALTDER Seminar, Institute of Oceanography, University of Gdansk, Poland, 9.10.2005.
- Lehmann, A.,** and Hinrichsen, H.-H.: Upwelling in the Baltic Sea – A numerical model case study. BALTDER Seminar, Institute of Oceanography, University of Gdansk, Poland, 11.10.2005.
- Lenz, M.,** **Molis, M.,** and **Wahl, M.:** Effects of disturbance and nutrient enrichment on marine hardbottom communities: results from an experiment with a large scale replication. Summer Meeting of the American Society of Limnology & Oceanography ASLO. Santiago de Compostela, Spain, 23.06.2005.
- Lenz, M.,** **Molis, M.,** and **Wahl, M.:** GAME – a global tool in marine experimental ecology. 40th European Marine Biology Symposium. Vienna, Austria, 21.08.2005.
- Linke, P.:** Marine gas hydrate research at IFM-GEOMAR: An overview on history and recent developments. International Symposium on Gas Hydrate Technology, Seoul, Korea, 10.11.2005.
- Lochte, K.:** Potential biogeochemical ‘switches’ in the tropical Atlantic. Kolloquium Alfred-Wegener-Institut für Polar- und Meeresforschung, Bremerhaven, 30.11.2005.
- Macke, A.:** Strahlung und Wolken: Messung und Modellierung. Kolloquiumsvortrag am Institut für Meteorologie und Klimaforschung der Univ. Karlsruhe. 25.01.2005.
- Matthiessen, B.,** and Hillebrand, H.: Dispersal rates affects local productivity by controlling local diversity. Annual Meeting of the Ecological Society of America (ESA), Montreal, Canada, 10.08.2005.
- Müller, G.,** Wilson, R.P., Liebsch, N., and **Adelung, D.:** From form to function: Determination of diving behaviour on the scale of individual dives. 2nd International Symposium on Bio-Logging Science, St. Andrews, UK, 13.06.-16.06.2005.
- Noé, S.,** and **Dullo, W.-Chr.:** Skeletal morphogenesis, growth rate and growth mode of deep-water isidid gorgonians (Octocorallia) in the West Pacific (Chatham Rise, Sea of Okhotsk). Seminar, Institut für Paläontologie, Erlangen, 18.12.2005.
- Petersen, S.:** Seafloor hydrothermal systems at the modern seafloor and their resource potential. German-American Frontiers of Sciences (GAFOS). Meeting of the Alexander-von-Humboldt Foundation and the US National Academy of Science, Irvine, California, USA, 02.06.-05.06.2005.
- Piatkowski, U.:** Cephalopod distribution patterns along the mid-Atlantic Ridge: new

insights, new species. Project Patterns and Processes of the Ecosystem of the Northern Mid-Atlantic (MAR-ECO). Field Phase Workshop. IPIMAR, Lisbon, Portugal, 03.06.2005.

Reston, T., and Ranero, C.R.: Detachment Faulting Within Slow-Spreading Segments – Beyond the Corrugated Surface. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Reston, T.: Continental breakup. Evidence From West of Ireland, West Iberia and The Alps. Annual Irish Geoscience Meeting, Dublin, Ireland, 18.02.-20.02.2005.

Reston, T.: The formation of non-volcanic rifted margins by the progressive extension of the continental lithosphere. Invited seminar, Department of Earth Sciences, Cambridge, UK, 17.01.-20.01.2005.

Reston, T.: Volatiles and fluids in subduction zones: climate feedback and trigger mechanisms for natural disasters. An overview of the activities of SFB 574. EGU General Assembly 2005, Vienna, Austria, 24.04.-29.04.2005.

Reston, T.: Volatiles and fluids in subduction zones: climate feedback and trigger mechanisms for natural disasters. An overview of the activities of SFB 574. 19th Colloquium on Latin American Geosciences, GeoForschungsZentrum Potsdam, 18.04.-20.04.2005.

Riebesell, U.: CO₂ chemistry effects on planktonic calcifiers, communities, and the global carbon cycle. Ocean Acidification Workshop, St. Petersburg, Florida, USA, 18.03.2005.

Riebesell, U.: CO₂-related ocean acidification: biological responses and biogeochemical consequences. Gordon Research Conference. CO₂ assimilation in plants: Genome to biome. Aussois, France, 11.09.-16.09.2005.

Riebesell, U.: Ecosystem and biogeochemical responses to ocean acidification: Results from mesocosm CO₂ enrichment experiments. Bjerknes Conference, Bergen, Norway, 09.11.2005.

Riebesell, U.: Marine Ecosystem and Biogeochemical responses in a high CO₂ ocean. RCOM Workshop, Bremen, 02.05.-03.05.2005.

Riebesell, U.: Ocean biogeochemistry in a high CO₂ world. University of Victoria, Canada, 24.01.2005.

Riebesell, U.: Ocean of the future: Biological and biogeochemical responses in a high CO₂ world. Universität Leipzig, 28.06.2005.

Rutgers van der Loeff, M.M., and **Croot P.L.:** Trace elements and isotopes on the transect Bremerhaven – Vigo - Cape Town: *a pilot study for the international biogeochemical program GEOTRACES*. Seminar Spanish-German Cooperation in Polar Research, Polarstern, Vigo, Spain, 24.10.2005.

Schmale, O., Greinert, J., and Rehder, G.: Methane emission from high-intensity marine gas seeps into the atmosphere – case study Paleo Dnepr Area (Black Sea). International Workshop on Methane in sediments and water column of the Black Sea, Sevastopol, Ukraine, 18.05.2005.

Schott, F.: Tropical-Subtropical interactions in the Atlantic. Prince-Albert I Award Lecture, IAPSO, Cairns, Australia, 25.08.2005.

Schott, F.: Circulation and climate variability of the Indian Ocean. WHOI 75th Anniversary

Symposium, Woods Hole, USA, 21.09.2005.

Sommer, U.: Die Auswirkungen des Klimawandels auf die Frühjahrssukzession des Planktons. Dpt. Biologie II, Ludwig-Maximilians-Universität, München, 08.03.2005.

Sommer, U.: Klimawandel und Planktonsukzession: erste experimentelle Ergebnisse. Zool. Inst., Universität zu Köln, 01.06.2005.

Sommer, U.: Overview over the Kiel mesocosm experiments. 2nd AQUASHIFT workshop, IFM-GEOMAR, Kiel, 29.09.2005.

Stern, T., Okaya, D., Baldock, G., and **Scherwath, M.:** Combined Active and Passive Seismology to Study Continental Collision; Central South Island of New Zealand. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Stramma, L.: Progress made since 2000 on understanding the tropical circulation of the Atlantic from observations. Tropical Atlantic Ocean Dynamics Workshop, Venice, Italy, 17.10.2005.

Testor, P.: Résultats préliminaires de l'expérience MEDGLIDERS (projet MFSTEP). Séminaires du LOV, Villefranche-sur-Mer, France, 04.03.2005.

Testor, P.: Résultats préliminaires de l'expérience MEDGLIDERS (projet MFSTEP). Séminaires du LOCEAN, Paris, France, 11.03.2005.

Testor, P.: Preliminary results from the MEDGLIDERS experiment (MFSTEP project). SOC seminars, Southampton, UK, 23.03.2005.

Testor P.: The Slocum gliders - MFSTEP project. Untethered Underwater Vehicle meeting, Bergen, Norway, 29.08.2005.

Ueberschär, B.: Biodiversity information systems. 1st International Workshop on Conservation of Ecological Integrity in the Yangtze River. Institute of Hydrobiology, Hubei, China, 21.07.2005.

Ueberschär, B.: Kritische Zeiten für Fischlarven. 5. Tagung der Gesellschaft für Ichthyologie (GfI), VII. Symposium zur Ökologie, Ethologie und Systematik der Fische, Bonn, 22.09.2005.

Ueberschär, B.: Notes on strategies for education & training in aquaculture. The Asia-Europe Meeting (ASEM) Aquaculture Platform Workshop 4 on Education and Training (E&T), SEAFDEC Aquaculture Department, Tigbauan, Iloilo, Philippines. 26.09.2005.

Visbeck, M.: Climate variability and Change in the Atlantic Ocean: A Personal View. 100-year Postdoc celebration, Silver Spring, USA, 21.04.2005.

Visbeck, M.: Overview of Atlantic Meridional Overturning circulation and atmospheric response to changes in over-turning circulation. BCCR Sea Ice Workshop, Bergen, Norway, 23.05.2005.

Visbeck, M.: Southern Annular Mode and Antarctic Bottom Water Formation. Geophysikalisches Kolloquium, Hamburg, 07.07.2005.

Visbeck, M.: The Ocean's Role in Climate Variability and Change. WE-Heraeus Summerschool „Physics of the Environment“, Bad Honnef, 31.08.2005.

Wahl, M.: Life is resonance. DFG-workshop on Aquatic Chemical Ecology, Wilhelmshaven, 26.09.2005.

Scientific Presentations

Wallace, D.W.R.: Marine Carbon Sources and Sinks Assessment – CARBOOCEAN. 3rd Japan-EU Workshop on Climate Change. Yokohama Institute for Earth Sciences, Yokohama, Japan, 20.01.2005.

Wallace, D.W.R.: Climate-Biogeochemistry Interactions in the Tropical Oceans. A New Kieler SFB, Sitzung, DFG Senatskommission für Ozeanographie, GKSS, Geesthacht, 30.03.2005.

Wallace, D.W.R.: Detection of decadal-to-centennial ocean carbon inventory changes. CarboOcean Kick-Off Meeting, Bergen, Norway, 02.02.2005.

Wallace, D.W.R.: Global Carbon Observations. Invited Lecture at Quest Earth System Science Summer School, Bristol, UK, 22.09.2005.

Wallace, D.W.R.: Highlights and Vision of CarboOcean Core Theme II, Plenary Presentation, CarboOcean 1st Annual Meeting, Amsterdam, The Netherlands, 22.11.2005.

Wallace, D.W.R.: The increase of anthropogenic CO₂ in the North Atlantic. Invited Seminar, Max-Planck-Institut für Meteorologie, Hamburg, 26.05.2005.

Wallace, D.W.R.: The Marine Ecosystem and Atmosphere-Ocean Exchanges, Invited Lecture at DPG Heraeus Summer School, Bad Honnef, 02.09.2005.

Wallace, D.W.R.: What we learned from the CO₂ Survey and some "intriguing" questions", Plenary lecture at the International Repeat Hydrography and Carbon Workshop, Shonan Village, Japan, 14.11.2005.

Wiese, J.: Wirkstoffe aus assoziierten Mikroorganismen. Neues aus dem Meer, Workshop, WTSH, Büsum, 08.06.2005.

Willebrand, J.: Dynamics of thermohaline circulation variability. American Geophysical Union Joint Assembly, New Orleans, USA, 23.05.2005.

Zumholz, K., Hansteen, T.H., and Piatkowski, U., and Croot, P.L.: Temperature and salinity effects on the trace element incorporation into statoliths of cuttlefish (*Sepia officinalis*). ASLO Annual Summer Meeting, Santiago de Compostela, Spain, 23.06.2005.

6.2 Other Scientific Presentations

Aberle, N., Gohse-Reimann, S., Jaschinski, S., Wiltshire, K.H., Brendelberger, H., and Sommer, U.: Effects of water column nutrients and grazer diversity on a seagrass-epiphyte-microphytobenthos community within and beneath a *Zostera marina* meadow. Summer Meeting of the American Society of Limnology and Oceanography ASLO, Santiago de Compostela, Spain, 23.05.2005.

Agurto, C., Sommer, F., Sommer, U., Hansen, T., and Rautenstrauch, C.: Trophic structure of mesozooplankton in the Central Baltic Sea: $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ signatures analyses. Cycle of Conferences in Oceanography. University of Concepcion, Concepcion, Chile, 24.01.2005.

Agurto, C., Sommer, F., Sommer, U., and Hansen, T.: Assessing trophic levels of mesozooplankton in the Central Baltic Sea and North Sea: A stable isotope study. Austral University of Chile. Valdivia, Chile. 03.10.2005.

Agurto, C., Sommer, F., Sommer, U., Hansen, T., and Rautenstrauch, C.: Stable isotope ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ signatures analyses.) signatures of mesozooplankton and seston size fractions at the Central Baltic Sea: Bornholm Basin. FE Seminar. Kiel, 02.09.2005.

Agurto, C.: Stable Isotope Ecology: Assets and drawbacks. Austral University of Chile, Valdivia, Chile, 29.09.2005.

Arroyo, I. G., Flueh, E.R., Husen, S., Gossler, J., Alvarado, G.E., and Mora, M.: Characterization of the Central Costa Rican Pacific Seismogenic Zone from an "Amphibious" Local Seismological Network. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Augustin, N., Lackschewitz, K.S., Devey, C.W., and Eisenhauer, A.: Hydrothermal alteration in the high-temperature Logatchev vent field: implications for seawater-ultramafic rock interaction. Berichte der Deutschen Mineralogischen Gesellschaft, Beiheft zum *European Journal of Mineralogy*, **17**, 7, DMG, Aachen, 18.09.-21.09.2005.

Bader, J.: North Atlantic Oscillation response to anomalous Indian Ocean SST in a coupled GCM. EGU Joint Assembly, Vienna, Austria, 29.04.2005.

Barckhausen, U., Engels, M., Cande, S., and **Weinrebe, W.:** New Insights Into the Farallon Plate Break-Up. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Bauch, D.: Laptev Sea hydrographic expeditions between 1993 to 2003: the big picture and how can we put everything together? The details and what can we learn about water exchange? Workshop on the Ice-Sea-Sediment System in the Laptev Sea, Bremerhaven, 14.12.2005.

Bauch, H.A.: North Siberian shelf sediments as an archive of palaeoenvironmental change during the Late Pleistocene. 1st International Workshop (INQUA) on Sub-Aerially Exposed Shelves Since the Middle Pleistocene Climatic Transition, Hong Kong SAR, China, 09.05.-13.05.2005.

Bauch, H.A.: Quaternary climate evolution: evidence for a progressive change of interglacial climate conditions forced by different ocean-atmosphere circulation regimes. 2nd International Alfred Wegener Symposium, Bremerhaven, 30.10.-02.11.2005.

Bauch, H.A., Kandiano, E.S., and Helmke, J.P.: Evidence for a progressive change of interglacial climate conditions forced by different ocean-atmosphere circulation regimes. American Geophysical Union (AGU) Fall Meeting '05, San Francisco, USA, 05.12.-09.12.2005.

Bauch, Th., Reijmer, J.J.G., Schäfer, P., and McNeill, D.F.: Reef Evolution in a siliclastic dominated environment (Early Pliocene, Costa Rica); Congrès ASF 2005, 10ème Congrès Français de Sédimentologie; Giens, France, 11.10.-13.10.2005.

Berger, S., and Peeken, I.: Phytoplankton taxonomic composition as related to nutrients, zooplankton, and mixing depth: a comparative lake study. ASLO Summer Meeting, Santiago de Compostela, Spain, 19.06.-24.06.2005.

Biebow, N., Dullo, W.-Chr., Obzhairov, A., Suess, E., and Kulinich, R.: The Environment of the Okhotsk Sea – Contribution of the KOMEX Project. Fifth Workshop on Russian-German Cooperation in the Sea of Okhotsk – Kurile Island Arc System KOMEX, Vladivostok, Russia, 27.05.-30.05.2005.

Bindeman, I., Turner, S., Eiler, J., and Portnyagin, M.: The isotopic composition of subduction fluid: high-, low-, or normal $\delta^{18}\text{O}$? In: *Geochimica et Cosmochimica Acta*, **69** (10), Supplement 1, A632, Goldschmidt Conference, Moscow, Idaho, USA, 21.05.-25.05.2005.

Böhm, F., Eisenhauer, A., and Heuser, A., Kiessling, W., and **Wallmann, K.:** Calcium isotope fractionation during dolomitization. GeoErlangen 2005, Erlangen, 29.09.2005.

Böhm, F., Eisenhauer, A., and Heuser, A.: Expected impact of the T-J crisis on the oceanic calcium and Ca isotope budget. 5th Field Workshop of IGCP 458, Tata, Hungary, 07.09.2005

Böhm, F., Gussone, N., Eisenhauer, A., Reynaud, S., and Paytan, A.: Calcium isotopes in corals - influence of temperature and calcification rate. EGU General Assembly, Vienna, Austria, 26.04.2005.

Böhm, F., Gussone, N., Eisenhauer, A., Reynaud, S., Paytan, A., Reitner, J. Wörheide, G., and Dullo, W.-Chr.: Ca isotope fractionation of biogenic CaCO_3 – mineralogical control and vital effects. Calcium Workshop, Amsterdam, The Netherlands, 24.11.2005.

Böhm, F.: Calcium isotopes as proxy for the marine calcium budget. Flügel-Colloquium 2005, Erlangen, 14.04.2005.

Bohm, M., Asch, G., Fauzi, F., Flueh, E.R., Brotopuspito, K. S., Kopp, H., Luehr, B.-G., Puspito, N. T., Ratdomopurbo, A., Rabbal, W., Wagner, D., and the MERAMEX Research Group: The MERAMEX Project – A seismological Network in Central Java, Indonesia. Status-Seminar, GFZ, Potsdam, 09.06.-10.06.2005.

Böning, C., and Czeschel, L.: High-resolution simulation of the subpolar North Atlantic: Lessons from FLAME-1/12. DRAKKAR conference, Grenoble, Frankreich, 21.01.2005.

Böning, C., Biastoch, A., Hüttel, S., and Lübbecke, J.: Lessons from global ocean-ice modelling with interannual CORE forcing. CLIVAR Working Group on Ocean Model Development (WGOMD), Hobart, Australia, 08.11.2005.

Böning, C., Biastoch, A., Scheinert, M., and Lorbacher, K.: Dekadische Variabilität im Golfstromsystem aus hochauflösenden

Modellrechnungen.

Kolloquium, Meteorologisches Institut der Universität Bonn, Bonn, 12.12.2005.

Böning, C., and Hüttel, S.: Effects of resolving the off-equatorial undercurrents in high-resolution models of the tropical Atlantic. CLIVAR Tropical Atlantic Climate Experiment (TACE) meeting, Miami, USA, 02.02.2005.

Böning, C., Hüttel, S., and Hazeleger, W.: Decadal variability of the shallow subtropical-tropical circulation in the "Co-ordinated Ocean Reference Experiments (CORE)". CLIVAR Workshop on Tropical Atlantic Climate Variability, Venice, Italy, 18.10.2005.

Booth-Rea, G., Reston, T.J., Sawyer, D., and Leythaeuser, T.: Synrift geometry, structural complexity and low-angle activity of the S reflector at the west Galicia rifted margin. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Brandt, P.: Warmwater circulation in the tropical Atlantic: from the western boundary toward the eastern upwelling regions. Séminaire LOCEAN, Paris, France, 17.02.2005.

Brandt, P.: Ventilation and water mass transformation in the Labrador Sea studied by a high-resolution numerical model. Bremen, 22.11.2005.

Brandt, P., Fischer, J., Schott, F., Hormann, V., Bourles, B., and Provost, C.: Circulation variability in the central equatorial Atlantic. Tropical Atlantic Ocean Dynamics Workshop, Venice, Italy, 17.10.2005.

Brandt, P., Funk, A., Czeschel, L., Eden, C., and Böning, C.: A rapid exit pathway of convectively formed water in the Labrador Sea boundary current. Max-Planck-Institut für Meteorologie Seminar, Hamburg, 06.12.2005.

Bumke, K.: Niederschlagsmessung über See. Maasholm-Seminar, 24.08.-26.08.2005.

Clemmesen, C., Huwer, B., Hinrichsen, H.-H., and Voss, R.: What has a surviving sprat (*Sprattus sprattus*) larva in the Baltic experienced? American Fisheries Society, Larval Fish Conference, Barcelona, Spain, 12.07.2005.

Croot, P.L.: Importance of kinetics to Iron speciation in the Southern Ocean and Antarctic Waters. 22. Internationale Polartagung der Deutschen Gesellschaft für Polarforschung, Jena, 21.09.2005.

Croot, P.L.: The importance of iron speciation and kinetics in understanding iron biogeochemical cycling in the open ocean: effects on budget estimates from meso-scale tracer release experiments. 14th PICES Meeting, Vladivostok, Russia, 02.10.2005.

Dengler, M.: The Deep Western Boundary Current in the tropical Atlantic and its break-up into eddies at 8°S. Max-Planck-Institut für Meteorologie – IfM Seminar, Hamburg, 11.01.2005.

Dengler, M.: Diapycnal Mixing Processes in the upwelling regions of the tropical Atlantic. TACE Implementation Workshop, Miami, USA, 03.02.2005.

Dengler, M.: Diapycnal mixing processes in the eastern equatorial Atlantic and the Mauritanian upwelling region. Tropical Atlantic Workshop, Venice, Italy, 18.10.2005.

Dommenges, D.: Changes in the simulated

Northern Hemispheric atmospheric variability due to extratropical oceanic variability. EGU Joint Assembly, Vienna, Austria, 28.04.2005.

Dommenget, D.: The Physics of Global Warming. Lectures and Exercises. Sino-German Summer School, Qingdao, China, 20.09.2005.

Dommenget, D., and Wegener, J.: Modes of North Atlantic Annual Mean SST Variability. CRCES Workshop on Decadal Climate Variability, Warrenton, Virginia, USA. 18.10.2005.

Dullo, W.-C., Biebow, N., Baranov, B., **Werner, R.,** Lembke, L., and SO178-Scientific Party: SO178 KOMEX: Stoffaustauschprozesse und -bilanzen im Ochotskischen Meer: Hintergrund und erste Ergebnisse. BMBF Statusseminar "Meeresforschung mit FS SONNE", Warnemünde, 09.03.-11.03.2005.

Dullo, W.-Chr.: Coral growth and reef growth. Flügel-Colloquium 2005: Trends and Developments in Carbonate Sedimentology and Paleontology, Erlangen, 13.04.-15.04.2005.

Dullo, W.-Chr., Biebow, N., Baranov, B., **Werner, R.,** **Lembke-Jene, L.** and SO 178-scientific party: SO 178 - KOMEX: Stoffaustauschprozesse und -bilanzen im Ochotskischen Meer, Hintergrund und erste Ergebnisse. Statusseminar 2005 Meeresforschung mit FS SONNE, Warnemünde, 09.03.-11.03.2005.

Dupré, S., Woodside, J., **Klaucke, I.** and the MIMES Scientific Party: Active fluid emission systems imaged by high-resolution geophysics on the Nile Deep Sea Fan. EGU General Assembly 2005, Vienna, Austria, 24.04.-29.04.2005.

Eickmann, B., Strauss, H., Koschinsky, A., **Kuhn, T., Petersen, S.,** and Schmidt, K.: Sulphur Cycling at the Mid-Atlantic Ridge: Isotopic Evidence from the Logatchev and Turtle Pits Hydrothermal Fields. In: *EOS Trans. AGU*, **86** (52), Fall Meet. Suppl., abstract OS22A-01, AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Fekete, N., Grevemeyer, I., Reston, T., and Spiess, V.: Dewatering Through Mud Mounds on the Continental Fore-Arc of Costa Rica. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Flögel, S., and Hay, W.W.: Sedimentation and the Hydrological Cycle during times of Global Warmth. PAGES Second Open Science Meeting, Beijing, China, 10.08.-12.08.2005.

Flögel, S., Hay, W.W., Migdisov, A., Balukhovskiy, A.N., Wold, C.N., and Soeding, E.: Evaporites and the Salinity of the Ocean During the Phanerozoic: Implications for Climate, Ocean Circulation, and Life. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Frank, M., Porcelli, D., Andersson, P., Halliday, A.N., Kubik, P.W., Hattendorf, B., and Günther, D.: Tracing water masses and riverine inputs into the Arctic Ocean with dissolved ^{10}Be and ^9Be . General Assembly of the European Geosciences Union, Vienna, Austria, 29.04.2005.

Froese, R.: Ecosystem-based fisheries management. Worldfish Seminar Series, Los Baños, Laguna, Philippines, 15.12.2005.

Froese, R.: Unexpected Mega-Users of ICES Data. Second meeting of the ICES Study Group on Integrated Data Management, Lisbon, Portugal, 11.04.2005.

Funk, A., Brandt, P., Czeschel, L., and **Eden, C.:** Export of convective water in the boundary

current of the Labrador Sea. European Geosciences Union, General Assembly, Vienna, Austria, 27.04.2005.

Geldmacher, J., Hoernle, K., Gaertner, C., and Kluegel, A.: Age and origin of the Central American forearc basement – evidence for the extent of the Caribbean Large Igneous Province? ICDP-IODP Meeting, Potsdam, 14.03.-16.03.2005.

Grevemeyer, I., Flueh, E.R., Villinger, H., Dahm, T., **Scherwath, M.,** Heesemann, M., Hofmann, S.D., **Ranero, C.R.,** Rietbrock, A., Tilmann, F., and the TIPTAQ working group: Impact of the lateral variability of the incoming ocean plate in South Chile on the structure of the marine forearc and the generation of mega thrust earthquakes. Sonderkolloquium "Geotechnologien", Potsdam, 09.06.-10.06.2005.

Grevemeyer, I., Ranero, C.R., Sahling, H., Barckhausen, U., Hensen, C., **Wallmann, K., Weinrebe, W.,** Vannucchi, P., von Huene, R., and McIntosh, K.: The Relationship Between Fluids and Tectonics at the Middle America Convergent Margin. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Gurenko, A., Sobolev, A., **Hoernle, K.,** and **Schmincke, H.:** Recycled Component in the Canary Plume: Constraints From Olivine Phenocryst Composition and Radiogenic Isotopes in the Shield Stage Lavas From the Canary Islands, In: *Eos Trans. AGU*, **86** (52), Fall Meet. Suppl., Abstract V41C-1470, AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Gurenko, A.A., Sobolev, A.V., **Hoernle, K.,** and **Schmincke, H.-U.:** Recycled component in the Canary plume, Canary Islands, Spain, In: *Proceedings of the "Inclusions in Minerals and Processes in the Earth's Mantle" Conference*, Ringberg Castle, Tegernsee, 09.05.-13.05.2005, <http://www1.mpch-mainz.mpg.de/~geo/ringberg-workshop/Ringberg-abstracts.pdf>.

Gussone, N., **Böhm, F., Eisenhauer, A.,** Dietzel, M., Heuser, A., Teichert, B.M.A., Reitner, J., Wörheide, G., and **Dullo, W.-Chr.:** Calcium isotope fractionation in the calcium carbonate polymorphs calcite and aragonite. EGU General Assembly, Vienna, Austria, 26.04.2005.

Haase, K.M., and the **M64/1 Scientific Party:** Hydrothermal activity on the southern Mid-Atlantic Ridge: first results of the M64/1 cruise. DMG Tagung, Aachen, 18.09.-21.09.2005.

Haase, K.M., and the **M64/1 Scientific Party:** Hydrothermal venting and volcanism on the southern Mid-Atlantic Ridge. *EOS Trans. AGU*, **86** (52), Fall Meet. Suppl., abstract OS21C-05, AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Haase-Schramm, A., Böhm, F., Eisenhauer, A., Garbe-Schönberg, D., Reitner, J., and Wörheide, G.: Sr/Ca ratios in different sclerosponge species and their application as temperature proxy. GeoErlangen 2005, Erlangen, 29.09.2005.

Haslob, H., Tomkiewicz, J., and **Hinrichsen, H.-H.:** Spatial and temporal variability in Baltic sprat (*Sprattus sprattus balticus* S.) batch fecundity. ICES Annual Science Conference, Aberdeen, UK, 21.09.2005.

Hauschildt, H., Macke, A., and Schulz, J.: Remote Sensing of Water Vapour in All-Sky Situations. 2nd CM-SAF User- and Training Workshop, Nürnberg, 30.08.2005.

Hay, W.W., **Flögel, S.**, and DeConto, R.: Organic Carbon and red-bed deposition – alternations in the state of the ocean. General Assembly of the European Geosciences Union, Vienna, Austria, 29.04.2005.

Hennings, I.: Investigations of meso-scale dynamics associated with marine sand waves in the tidal channel of the Lister Tief in the German Bight of the North Sea by using TerraSAR-X data (MESODYNTSX). Second TerraSAR-X Science Team Meeting, Oberpfaffenhofen, 06.12.2005.

Hennings, I.: Radar imaging mechanism of marine sand waves at very low grazing angle illumination. EARSeL International 2nd Workshop Remote Sensing of the Coastal Zone, Porto, Portugal, 09.06.2005.

Hinrichsen, H.-H., and Baumann, H.: Combining otolith microstructure analysis and hydrodynamic modeling: an approach to link Baltic sprat larval and juvenile growth to variability of the physical environment. ICES Annual Science Conference, Aberdeen, UK, 22.09.2005.

Hinrichsen, H.-H., Neuenfeldt, S., **Lehmann, A.**, and Mills, C.: Geolocation and habitat selection of eastern Baltic cod obtained by using Data Storage Tags (DSTs), Baltic Sea Science Conference, Sopot, Poland, 21.06.2005.

Hinrichsen, H.-H., **Schmidt, J.O.**, Möllmann, C., **Voss, R.**, and **Lehmann, A.:** The influence of circulation patterns on the interaction between Baltic larval cod and zooplankton as their prey. Workshop on the Impact of Zooplankton on Cod Abundance and Production, Copenhagen, Denmark, 08.06.2005.

Hoernle, K., **Hauff, F.**, **Werner, R.**, and **Bogaard, P.**, Mortimer, N., and SO168-Scientific Party: Ursprung und Entwicklung des Hikurangi Ozeanplateaus (Neuseeland): Ein Fragment des größten bekannten vulkanischen Ereignisses auf der Erde? (SO168 ZEALANDIA), BMBF Statusseminar "Meeresforschung mit FS SONNE", Warnemünde, 09.03.-11.03.2005.

Hoffmann, L., **Peeken, I.**, Assmy, P., Veldhuis, M., and **Löchte, K.:** Response of pico-, nano-, and microphytoplankton during the Southern Ocean iron fertilisation experiment EIFEX. ASLO Summer Meeting, Santiago de Compostela, Spain, 19.06.-24.06.2005.

Hormann, V., and **Brandt, P.:** Seasonal cycle of the velocity field in the eastern equatorial Atlantic. Max-Planck-Institut für Meteorologie Seminar, Hamburg, 12.07.2005.

Hormann, V., and **Brandt, P.:** Seasonal cycle of the velocity field in the eastern equatorial Atlantic. Tropical Atlantic Ocean Dynamics Workshop, Venice, Italy, 17.10.2005.

Ihle, T., **Petersen, S.**, **Herzig, P.M.**, and Hannington, M.D.: Siting of gold and characteristics of gold-bearing massive sulfides from the interior of the felsic-hosted PACMANUS massive sulfide deposit, Eastern Manus basin (PNG). SGA Meeting, Beijing, China, 18.08.-21.08.2005.

Kanzow, T., Send, U., **Zenk, W.**, and Rhein, M.: Integrale Erfassung der meridionalen Umwälzzirkulation im Tropischen Nordatlantik. BMBF Sonne Statusseminar, Warnemünde, 10.03.2005.

Keenlyside, N.: Equatorial Atlantic interannual variability and its relation to ENSO. US CLIVAR meeting, Miami, Florida, USA, 31.01.-

02.02.2005.

Keenlyside, N.: Equatorial Atlantic interannual variability and its relation to ENSO. Universidad de Alcala, Spain, 04.07.- 08.07.2005.

Keenlyside, N.: On sub-ENSO variability. IAPSO Dynamic Planet 2005, Cairns, Australia, 22.08.-26.08.2005.

Kiiltomäki, A., Stipa, T., and **Lehmann, A.:** Spatial and temporal variability of temperature and salinity in the Baltic Sea. A comparison of observations and model data. Baltic Sea Science Conference, Sopot, Poland, 22.06.2005.

Klaucke, I., Sahling, H., Bohrmann, G., and **Weinrebe, W.:** The variability of fluid-escape features imaged with deep-towed sidescan sonar: morphologies, backscatter facies and controls. EGU General Assembly 2005, Vienna, Austria, 24.04.-29.04.2005.

Klaucke, I., Sahling, H., **Weinrebe, W.**, **Buerk, D.**, Lursmanashvili, N., and Blinova, V.: Fluid venting and slope erosion offshore Georgia, Eastern Black Sea. Workshop on Methane in the Black Sea, Sewastopol, Ukraine, 18.05.2005 - 20.05.2005.

Kopp H., **Flueh E.R.**, Rabbel, W., Wagner D., **Wittwer A.**, and the **Meramex Scientists:** Subduction zone processes in Central Java: Preliminary results of the MERAMEX amphibious project. Sonderkolloquium "Geotechnologien", Potsdam, 09.06.-10.06.2005.

Kossak, U.: Mussel shell growth and shell stability – importance of salinity. MiniMussel Symposium, Kerteminde, Denmark, 27.10.2005.

Kossak, U.: Simulating future salinity shifts: a multiple transplant experiment in the Baltic salinity gradient. EMBS, Vienna, Austria, 21.-25.08.2005.

Krabbenhoft, A., **Bialas, J.**, **Zillmer, M.**, **Flueh, E.R.**, **Petersen, J.**, **Thierer, P.**, and von Gronefeld, G.: Investigation of gas hydrates and free gas saturation with seismic methods. Sevastopol, Ukraine, 18.05.2005 - 20.05.2005.

Kraus, G.: Overview on RECONN time series analysis. Aquashift Fish Meeting, ZMAW, Hamburg, 19.12.2005.

Kube, N., **Bischoff, A.A.**, **Wecker, B.**, and **Waller, U.:** The feasibility of a Photobioreactor (Microalgae) for the removal of dissolved nutrients in a closed recirculating system. EAS Conference on Lessons from the Past to Optimise the Future, Trondheim, Norway, 06.08.2005.

Kuhn, T., **Bruegmann, G.**, **Petersen, S.**, and **Herzig, P.:** Os isotopic ratios and PGE geochemistry in hocks and sulfides from the ultramafic-hosted Logatchev hydrothermal field, 14°45'N MAR. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Kuhn, T., **Petersen, S.**, and **Herzig, P.:** Os isotopic ratios and PGE geochemistry in hocks and sulfides from the ultramafic-hosted Logatchev hydrothermal field, 14°45'N MAR. DMG Tagung, Aachen, 18.09.-21.09.2005.

Kuhn, T., **Petersen, S.**, **Lackschewitz, K.**, **Augustin, N.**, Franz, L., Bruegmann, G., and **Devey, C.W.:** Hydrothermal processes in the active Logatchev-1 hydrothermal field: new insights from mineralogy and geochemistry of massive sulfides and alteration products. Russian Ridge Workshop, St. Petersburg, Russia, 06.06.-07.06.2005.

- Lackschewitz, K.S., and Devey, C.W.:** Using authigenic clay mineralogy and geochemistry to assess physio-chemical conditions in hydrothermal systems. Russian Ridge Workshop, St. Petersburg, Russia, 06.06.-07.06.2005.
- Lackschewitz, K.S., Augustin, N., and shipboard scientific parties:** The ultramafic-hosted Logatchev hydrothermal field, 14°45'N on the MAR: New insights and results from cruises M60/3 and M64/2. Department of Earth Sciences, The Open University, Milton Keynes, UK, October 2005.
- Lackschewitz, K.S., Augustin, N., Devey, C.W., Eisenhauer, A., Garbe-Schönberg, D., and James, R.:** Hydrothermal alteration in the Logatchev hydrothermal field: Implications from secondary mineral assemblages and mineral chemistry. *EOS Trans. AGU*, **86** (52), Fall Meet. Suppl., abstract OS22A-02., AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.
- Latif, M.:** On Sub-ENSO variability. EGU Joint Assembly, Vienna, Austria, 28.04.2005.
- Latif, M.:** Ocean Circulations and Climate Dynamics. Symposium „The Future of Life and of our Civilization, Universität Frankfurt a.M., 03.05.2005.
- Lehmann, A., and Hinrichsen, H.-H.:** Upwelling in the Baltic Sea – A numerical model case study. Baltic Sea Science Conference, Sopot, Poland, 21.06.2005.
- Lembke-Jene, L., Tiedemann, R., Nürnberg, D., Kokfelt, U., Biebow, N., Röhl, U., Gorbarenko, S., and Dullo, W.-Chr.:** Millennial to Centennial scale climatic and oceanographic changes in the Okhotsk Sea during the past 15,000 years. General Assembly of the European Geosciences Union, Vienna, Austria, 29.04.2005.
- Lengfellner, K., Aberle-Malzahn, N., Sandow, M., Hansen, T., and Sommer, U.:** Plankton spring succession in response to warming winters. 2nd Aquashift-Workshop, Kiel, 28.09.2005.
- Lengfellner, K.:** AQUASHIFT mesocosm studies: first results and future perspectives. AQUASHIFT Copepod-Meeting, Kiel, 08.12.2005.
- Lengfellner, K.:** Impact of climatic warming on plankton spring succession. 2nd Aquashift-Workshop, Kiel, 29.09.2005.
- Lenz, M., Bers, V., and Wahl, M.:** Arbeiten der Forschungseinheit Benthosökologie am IFM-GEOMAR im Bereich der Marinen Bionik. Kick-off Meeting „Marine Bionik“: Wissenschaft trifft Wirtschaft, Hochschule Bremen, 04.02.2005.
- Linke, P., Wallmann, K., Suess, E., Hensen, C., and Rehder, G.:** In-situ benthic fluxes from an intermittently active mud volcano at the Costa Rica convergent margin, ASLO, Aquatic Sciences Meeting Salt Lake City, USA, 23.02.2005.
- Macke, A.:** Cloud Climatology from COADS and NCEP/NCAR reanalysis data. Cloud Climatology Assessment Workshop, University of Madison, Wisconsin, USA, 06.04.2005.
- Macke, A.:** Strahlungstransport in der bewölkten Atmosphäre. Phys. Kolloquium, Uni Kiel, 01.11.2005.
- Macke, A., Bedacht, E., and Gulev, S.:** Cloud Climatologies from COADS and NCEP/NCAR Reanalysis data. Madison, Wisconsin, USA, 06.04.2005.
- Macrander, A.:** Multi-Year Observations of the Denmark Strait Overflow - Dynamics, Forcing and Variability. Seminar at Meteorologiska Institutionen vid Stockholms Universitet (MISU), Stockholm, Sweden, 25.11.2005.
- Martin, T.:** Anomalies of Sea Ice Transports in the Arctic. International Symposium on Sea Ice, Dunedin, New Zealand, 05.12.-09.12.2005.
- Matthiessen, B., Hillebrand, H.:** The influence of local diversity and dispersal frequency on local productivity in an open marine system. Summer Meeting of the American Society of Limnology and Oceanography (ASLO), Santiago de Compostella, Spain, 22.06.2005.
- Meyer, S.:** Improved Retrieval of Ice Cloud Properties. CM-SAF Projekt-Treffen, de Bilt, The Netherlands, 09.09.2005.
- Mironov, N.L., and Portnyagin, M.V.:** Origin and evolution of the Klyuchevskoy volcano magmas: insight from melt inclusion study, In: *Proceedings of the "Inclusions in Minerals and Processes in the Earth's Mantle" Conference*, Ringberg Castle, Tegernsee, 09.05.-13.05.2005. <http://www1.mpch-mainz.mpg.de/~geo/ringberg-workshop/Ringberg-abstracts.pdf>.
- Moerz, T., Schramm, B., Hauff, F., Grevemeyer, I., Hoernle, K., Villinger, H., Brueckmann, W., and Garbe-Schönberg, D.:** A Window to the Seismogenic Zone – cold recycling of Oceanic Basement at the Mid American Forearc (ODP Leg 170 and 205), ICDP-IODP Meeting, Potsdam, 14.03.-16.03.2005.
- Monecke, T., Hannington, M.D., Petersen, S., Herzig, P.M., and Kleeberg, R.:** Low temperature hydrothermal alteration at Conical Seamount, Papua New Guinea. GAC-MAC-CSPG-CSSS Joint Meeting, Halifax, Nova Scotia, Canada, 15.05.-18.05.2005.
- Monecke, T., Petersen, S., Kleeberg, R., Hannington, M.D., and Herzig, P.M.:** Mineralogische Untersuchungen an den hydrothermal alterierten Nebengesteinen der flachmarinen Goldvererzung des Conical Seamount, Papua Neuguinea. BMBF Statusseminar, „Meeresforschung mit FS SONNE“, Warnemünde, 09.03.-11.03.2005.
- Noé, S., Titschack, J., Freiwald, A., and Dullo, W.-Chr.:** From sediment to rock: diagenetic processes of hardground formation in deep-water carbonate mounds of the NE Atlantic. Flügel-Colloquium 2005: Trends and Developments in Carbonate Sedimentology and Paleontology, Erlangen, 13.04.-15.04.2005.
- Noé, S.:** From sediment to rock: diagenetic processes of hardground formation in deep-water carbonate mounds of the NE Atlantic. EGU - 2nd General Assembly & Congress European Geosciences, Vienna, Austria, 24.04.-29.04.2005.
- Noé, S., and Dullo, W.-Chr.:** Growth mode, age and age validation of a fossil deep-water bamboo coral of Chatham Rise (New Zealand). GeoErlangen 2005: System Earth – Biosphere Coupling/Regional Geology of Central Europe, Erlangen, 24.09.-29.09.2005.
- Nürnberg, D.:** Taking the temperature of past ocean surfaces - Evidence from foraminiferal Mg/Ca. Geokolloquium, Institut für Geowissenschaften, CAU, Kiel, 12.12.2005.
- Numberger, L., Bröckel, K. von, Schönfeld, J., and Spindler, M.:** Observation of a spring bloom at Kiel Bight, depositional events and reaction of the benthic foraminiferal

community. The Micropalaeontological Society's Foraminifera and Nannofossil Groups Joint Spring Meeting 2005, National Oceanography Centre, Southampton, UK, 16.06.2005.

Peck, M.A., Herrmann, J.P., Baumann, H., Kürs, U., Temming, A., and **Clemmesen, C.**: Inter-relationships between rates of feeding and growth, RNA/DNA and otolith microstructure in post-larval Baltic sprat (*Sprattus sprattus* L.) as determined from laboratory experiments. American Fisheries Society, Larval Fish Conference, Barcelona, Spain, 13.07.2005.

Peeken, I., Hoffmann, L., Assmy, P., Bathmann, U., Cisewski, B., Leach, H., Lochte, K., Sachs, O., Sauter, E., and Strass, V.: Export of fresh algal material during the Southern Ocean iron fertilisation experiment, EIFEX. ASLO Summer Meeting, Santiago de Compostela, Spain, 19.06.-24.06.2005.

Peeken, I., Hoffmann, L., and Lochte, K.: The role of the chlorophyll maximum for phytoplankton production in the tropical Atlantic. ASLO Summer Meeting, Santiago de Compostela, Spain, 19.06.-24.06.2005.

Peeken, I., Hoffmann, L., Lochte, K.: Pigment based highlights from the Southern Ocean iron fertilization experiment EIFEX. EIFEX workshop, AWI-Bremerhaven, 27.04.-30.04.2005.

Peeken, I.: Introduction of pre-OOMPH preparation and relevant previous own work. OOMPH Kick-Off Meeting, Montabaur Castle, 05.09.-07.09.2005.

Pepin, P., and **Hinrichsen, H.-H.**: An overview of the state of knowledge of the transport of cod eggs and larvae. ICES Annual Science Conference, Aberdeen, UK, 23.09.2005.

Petereit, C., Kraus G., and Clemmesen, C.: Resolving trophodynamic consequences of climate change - match - mismatch between secondary and tertiary production in the Baltic Sea. Aquashift Workshop, Kiel, 29.09.2005.

Petereit, C.: Overview on RECONN temperature gradient experiment. Aquashift Fish Meeting, ZMAW, Hamburg, 19.12.2005.

Petereit, C.: Parameterizing individual-based models of early life stages of sprat (*Sprattus sprattus*). Aquashift Modelling Workshop, Hamburg, 21.02.2005.

Petersen, J., Papenberg, C., and Klaeschen, D.: Seismic quantification of marine gas hydrates at northern Hydrate Ridge - final results of the HYDGAS Projekt. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Petersen, S., Herzig, P.M., Gabriel, A., and Hannington, M.D.: Geochemical mapping of a large sulfide chimney from the felsic-hosted PACMANUS hydrothermal field, Papua New Guinea: Implications for trace element precipitation. DMG Tagung, Aachen, 18.09.-21.09.2005.

Petersen, S., Kuhn, T., Herzig, P.M., and Hannington, M.D.: Factors controlling Au and Cu enrichments at the submarine ultramafic-hosted Logatchev hydrothermal field, 14°45'N on the MAR. DMG Tagung, Aachen, 18.09.-21.09.2005.

Petersen, S., Kuhn, T., Herzig, P.M., and Hannington, M.D.: Factors controlling precious and base-metal enrichments at the ultramafic-hosted Logatchev hydrothermal field, 14°45'N on the MAR: new insights from cruise M60/3. SGA Meeting, Beijing, China, 18.08.-21.08.2005.

Petersen, S., Kuhn, T., Scholten, J., Hannington, M.D., and Herzig, P.M.: Hydrothermale Prozesse und magmatische Einträge im PACMANUS Hydrothermalfeld, östliches Manus Becken (PNG). BMBF Statusseminar, „Meeresforschung mit Forschungsschiff SONNE“, Warnemünde, 09.03.-11.03.2005.

Petersen, S.: Seafloor hydrothermal systems – understanding „Inner Space“. German-American Frontiers of Sciences (GAFOS) Meeting of the Alexander-von-Humboldt Foundation and the US National Academy of Science, Irvine, California, USA, 02.06.-05.06.2005.

Pfeiffer, M., Timm, O., and Dullo, W.-Chr.: Non-stationary relationship between rainfall and ENSO in the tropical Indian Ocean: a result of the recent sea surface temperature rise? EGU - 2nd General Assembly & Congress European Geosciences, Vienna, Austria, 24.04.-29.04.2005.

Pfeiffer, M., Timm, O., and Dullo, W.-Chr.: Tropical Indian Ocean Temperatures from Sr/Ca Ratios of Modern *Porites* Corals – Assessing the Impact of 20th Century Warming on Tropical Rainfall. AGU fall meeting, San Francisco, USA, 05.12.-09.12.2005.

Pfeiffer, M., Zinke, J., Timm, O., and Dullo, W.-Chr.: Stability of the ENSO teleconnection in the Indian Ocean: evidence from corals. GeoErlangen 2005: System Earth – Biosphere Coupling/Regional Geology of Central Europe, Erlangen, 24.09.-29.09.2005.

Portnyagin, M., and Hoernle, K.: Re-equilibration of melt inclusions in spinel. Workshop "Inclusions in minerals and processes in the Earth's mantle". In: Proceedings of the "Inclusions in Minerals and Processes in the Earth's Mantle" Conference, Ringberg Castle, Tegernsee, 09.05.-13.05.2005. <http://www1.mpch-mainz.mpg.de/~geo/ringberg-workshop/Ringberg-abstracts.pdf>, talk.

Portnyagin, M., Hoernle, K., Hauff, F.: Instantaneous melts from garnet peridotite preserved in melt inclusions from crust contaminated rocks in Kamchatka. In: Proceedings of the "Inclusions in Minerals and Processes in the Earth's Mantle" Conference, Ringberg Castle, Tegernsee, 09.05.-13.05.2005. <http://www1.mpch-mainz.mpg.de/~geo/ringberg-workshop/Ringberg-abstracts.pdf>.

Rabe, B., and Schott, F.: Variability of the shallow Tropical Atlantic during 1992-2002 in the ECCO assimilation fields. Tropical Atlantic Ocean Dynamics Workshop, Venice, Italy, 18.10.2005.

Ranero, C.R., Grevemeyer, I., Weinrebe, W., von Huene, R., Barckhausen, U., Vannucchi, P., and Sahling, H.: Fluid flow control on tectonic erosion at convergent margins. EGU General Assembly 2005, Vienna, Austria, 24.04.-29.04.2005.

Ranero, C.R., Villasenor, A., Phipps Morgan, J., and Weinrebe, W.: Relationship between bend-faulting at trenches and intermediate-depth seismicity. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Ranero, C.R., Villasenor, A., Phipps Morgan, J., Grevemeyer, I., and Weinrebe, W.: Relationship between oceanic plate hydration at trenches and intra-slab seismicity beneath arcs. EGU General Assembly 2005, Vienna, Austria, 24.04.-29.04.2005.

Rekant, P., Gusev, E., Schwenk, T., **Kassens, H.**,

- Spieß, V., Cherkashov, G., Krinitsky, P., and the TRANSDRIFT X Team: Seismic facies as a key to insight into the distribution and characteristics of the offshore permafrost (new data from the Laptev Sea). 2nd European Conference on Permafrost EUCOP 2005, Potsdam, 12.06.-16.06.2005.
- Reitz, A.**, and de Lange, G.J.: Sr-rich Aragonite in eastern Mediterranean Sapropel S1 Sediments. EGU General Assembly, Vienna, Austria, 24.04.-29.04.2005.
- Reston, T.**, and **Ranero, C.R.**: Detachment faulting at slow-spreading centres. EGU General Assembly 2005, Vienna, Austria, 24.04.-29.04.2005.
- Reston, T.**: Volatiles and Fluids in Subduction Zones: Climate Feedback and Trigger Mechanisms for Natural Disasters. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.
- Riebesell, U.**, **Peeken, I.**, and **Zöllner, E.**: Introduction to facilities in Kiel for the planned Kiel intensive (Work Package 1 -laboratory experiments/sea trials). OOMPH Kick-Off Meeting, Montabaur Castle, 05.09-07.09.2005.
- Riebesell, U.**: 1st CarboOcean mesocosm experiment: Preliminary results. CarboOcean 1st annual meeting, Amsterdam, 22.11.-24.11.2005.
- Riebesell, U.**: A1 – CO₂-induced ocean acidification. A2 – Ocean warming: Effects on biota and gas hydrates. Exzellenz Cluster Vernetzungsworkshop, Tannenfelde, 05.08-06.08.2005.
- Riebesell, U.**: The ocean in the anthropocene. WGL Evaluation of IFM-GEOMAR, Kiel, 15.09.-16.09.2005.
- Rohlf, N.**: Results of the herring larvae surveys in 2004. Annual Meeting of the ICES Herring Assessment Working Group, ICES headquarters, Copenhagen, Denmark, 09.03.2005.
- Rüggeberg, A.**, **Dullo, W.-Chr.**, **Eisenhauer, A.**, **Fietzke, J.**, **Freiwald, A.**, **Schöne, B.R.**, and **Andersen, N.**: Isotope Screening on *Lophelia pertusa* (L.) – Reconstruction of Temperature vs. Growth Rate. 3rd International Symposium on Deep-Sea Corals, Miami, USA, 28.11.-02.12.2005.
- Sadofsky, S.J.**, **Hoernle, K.**, **Duggen, S.**, and **Bebout, G.E.**: Nitrogen Isotope Geochemistry of Volcanic Rocks from Central America: Implications for Subduction-zone N Cycling. In: Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract V53F-02, AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.
- Schaber, M.**, **Stepputtis, D.**, **Hinrichsen, H.-H.**, **Kraus, G.**, and **Andersen, K.H.**: Distribution of adult cod (*Gadus morhua* L.) in the Central Baltic Sea in relation to hydrographic conditions based on hydro-acoustic single-fish detection. ICES Annual Science Conference, Aberdeen, UK, 23.09.2005.
- Schafstall, J.**: Diapycnal mixing processes in the Mauritanian upwelling region. Warnemünde Turbulence Days, IOW, Warnemünde, 28.09.2005.
- Schewski, M.**: Spatial inhomogeneities in relation to diffraction limited spectral unimormity of the IR sounder Point Spread Function: Status quo of study RfQ 04/826. Project-Treffen für Studie RfQ 04/826, EUMETSAT Headquarters, Darmstadt, 16.02.2005.
- Schewski, M.**: Spatial inhomogeneities in relation to diffraction limited spectral unimormity of the IR sounder Spread Function: RfQ 04/826. Final Meeting of study RfQ 04/826, EUMETSAT Headquarters, Darmstadt, 17.06.2005.
- Schmale, O.**, **Greiner, J.**, and **Rehder, G.**: Methane emission from high-intensity marine gas seeps into the atmosphere, case study from the Black Sea. EGU General Assembly, Vienna, Austria, 24.04.2005.
- Schnabel, M.**, **Flueh, E.R.**, **Klaeschen, D.**, and **Zillmer, M.**: AVA Analysis Reveals in Situ Sediment Diagenesis at the Costa-Rican Décollement. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.
- Schnabel, M.**, **Flueh, E.R.**, **Klaeschen, D.**, and **Zillmer, M.**: Evidence for varying pore pressure at the decollement offshore Costa Rica. EGU General Assembly 2005, Vienna, Austria, 24.04.-29.04.2005. poster.
- Schönfeld, J.**, **Dullo, W.-Chr.**, **Linke, P.**, **Pfannkuche, O.**, and **Rüggeberg, A.**: Benthic foraminifera from Deep-Water Coral Mounds in the Porcupine Seabight, NE Atlantic. The Micropalaeontological Society's Foraminifera and Nannofossil Groups Joint Spring Meeting 2005, National Oceanography Centre, Southampton, UK, 16.06.2005.
- Schönfeld, J.**, **Dullo, W.-Chr.**, **Linke, P.**, **Pfannkuche, O.**, and **Rüggeberg, A.**: Benthic foraminifera from Deep-Water Coral Mounds in the Porcupine Seabight, NE Atlantic. GeoErlangen 2005, System Earth – Biosphere Coupling Regional Geology of Central Europe, Friedrich-Alexander Universität Erlangen-Nürnberg, 29.09.2005.
- Schönfeld, J.**, **Nürnberg, D.**, **Regenberg, M.**, **Steph, S.**, **Dullo, W.-Chr.**, **Rühlemann, C.**, **Wefer, G.**: Variabilität der karibischen Oberflächenwasser-Salinitäten im Zuge rascher Klimawechsel während der letzten 30.000 Jahre – Ergebnisse SONNE Expedition SOI 164 (RASTA, GOLDFLOS). Statusseminar 2005 Meeresforschung mit FS SONNE, Warnemünde, 09.03.-11.03.2005.
- Schott, F.**: Tropical Atlantic circulation variability: Observations vs HYCOM. RSMAS Oceanography Seminar, Miami, USA, 23.03.2005.
- Schott, F.**: Indian Ocean circulation variability and its climate relevance. IOGOOS Symposium, Kuta, Indonesia, 11.08.2005.
- Schott, F.**: Variability of the shallow meridional overturning circulation of the tropical - subtropical ocean: Observations and models. Texas A&M University, College Station, USA, 19.09.2005.
- Schott, F.**, and **Giese, B.**: The shallow meridional overturning circulation of the tropical - subtropical Atlantic in SODA-POP 1.4.2. Tropical Atlantic Ocean Dynamics Workshop, Venice, Italy, 17.10.2005.
- Siedler, G.**: Is there something like a mean current in the open ocean? SANCOR Seminar, University of Cape Town, South Africa, 26.09.2005.
- Siedler, G.**: Connecting observations and model results: a case study from the West Pacific. SANCOR Seminar, University of Cape Town, South Africa, 24.10.2005.
- Siedler, G.**, and **Müller, T.J.**: Decadal changes in the North Atlantic subtropical gyre from 1980 to 2000. European Geosciences Union, General Assembly, Vienna, Austria, 25.04.2005.

Sommer, S., Pfannkuche, O., Linke, P., Luff, R., Drews, M., Greinert, J., Heesch, K., Gubsch, S.: The efficiency of the benthic filter - Biological control of the emission of dissolved methane from sediments hosting shallow gas hydrates. Statusseminar 2005 Meeresforschung mit FS Sonne, Warnemünde, 09.03.-11.03.2005.

Sommer, S., Pfannkuche, O., Linke, P., Luff, R., Greinert, J., Drews, M., and Gubsch, S.: The efficiency of the benthic filter - Biological control of the emission of dissolved methane from sediments hosting shallow gas hydrates. ASLO 2005 Aquatic Sciences Meeting 20.02.-25.02.2005, Salt Lake City, USA

Sommer, S., Pfannkuche, O., Linke, P., Luff, R., Greinert, J., Drews, M., and Heesch, K.: The efficiency of the benthic filter - Biological control of the emission of dissolved methane from sediments hosting shallow gas hydrates. EGU General Assembly, Vienna, Austria, 24.04.-29.04.2005.

Sommer, U.: Overview over the Kiel mesocosm experiments. 2nd Aquashift-Workshop, Kiel, 28.09.2005.

Sommer, U.: The importance of the trophic level of marine copepods for trophic cascades and nutrient cycles. 40th European Marine Biology Symposium, Vienna, Austria, 25.08.2005.

Sommer, U.: The trophic level of copepods and its impact on top-down effects and biogeochemical cycles. EGU-conference, Vienna, Austria, 26.04.2005.

Spielhagen, R.F.: Past climate variability. 1st IPY-CARE Symposium, Alfred Wegener-Institute for Polar and Marine Research, Bremerhaven, 12.10.-14.10.2005.

Spielhagen, R.F.: Late Quaternary interactions of Eurasian Arctic and global climates and forcings. 2nd Alfred-Wegener-Symposium, Alfred Wegener-Institute for Polar and Marine Research, Bremerhaven, 31.10.-02.11.2005.

Stramma, L.: Ozeanzirkulation und Variabilität im westlichen tropischen Atlantik - Ergebnisse der SONNE - Reise SO 170". BMBF Sonne Statusseminar, Warnemünde, 10.03.2005.

Stramma, L.: Water masses and currents in the upper tropical northeast Atlantic. Tropical Atlantic Ocean Dynamics Workshop, Venice, Italy, 17.10.2005.

Testor, P., and Send, U.: WP5: Group discussion. MFSTEP 2nd annual meeting, Bologna, Italy, 08.02.2005.

Testor, P., Send, U., Zappala, G., Petit de la Villeon, L., Terre, T., Jones, C., and Casas, B.: WP5: MEDGLIDERS. MFSTEP 2nd annual meeting, Bologna, Italy, 08.02.2005.

Testor, P.: New capabilities offered by gliders. MERSEA annual meeting, Toulouse, France, 29.03.2005.

Thorwart, M., Alvarado, G., **Arroyo, I.,** Dinc-Akdogan, N., Dzierma, A., **Flueh, E.R.,** Goltz, C., **Gossler, J.,** Mora, M., and Rabbel, W.: Talamanca Transect and Tremor Array: Ongoing Seismological Investigations in Costa Rica. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Tiedemann, R., **Lembke-Jene, L.,** Kozdon, R., **Nürnberg, D.,** Kokfelt, U., Biebow, N., Röhl, U., **Dullo, W.-Chr.:** Millennial- to Centennial-Scale Climatic and Oceanographic Changes in the Okhotsk Sea During the Pst 15,000 Years.

2nd Internat. Alfred Wegener Symposium, Bremerhaven, 30.10.-02.11.2005.

Tilman, F.J., **Grevemeyer, I., Gossler, J., Scherwath, M., Flueh, E.R.,** Hofmann, S., and Dahm, T.: Repeating Earthquakes in the Outer Rise Offshore Southern Chile. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Troll, V.R., Holohan, E.P., Walter, T.R., **Muenn, S.,** and Belousov, A.: The problem of caldera ellipticity, In: *EGU Geophysical Research Abstracts*, **7**, Abstract 04308, EGU General Assembly 2005, Vienna, Austria, 24.04.-29.04.2005.

Wagner, T., **Floegel, S.,** Hofmann, P., and Sinninghe Damsté, J.S.: Mid-Cretaceous Climate and Anoxia in the Ocean-Dynamics and Effects of Land-Ocean Interaction During Periods of Extreme Warmth. Earth System Processes 2, Calgary, Canada, 27.06.-30.06.2005.

Walter, S., Bange, H., and **Peeken, I.:** Does iron fertilisation increase the green house gas N₂O? Results from the EIFEX iron fertilisation experiment. EIFEX workshop, AWI, Bremerhaven, 27.04.-30.04.2005.

Wecker B., Bischoff, A.A., and **Kube N.:** MARE - Marine Artificial Recirculating Ecosystem, Stabsstelle Zukunft Meer, Kiel, 01.04.2005.

Wegner, C.: Seasonal variations in shelf dynamics on the Laptev Sea shelf - evidence from one-year records. Workshop on the Ice-Sea-Sediment System in the Laptev Sea, Bremerhaven, 14.12.2005.

Weinrebe, W., and **Ranero, C.R.:** Bathymetrie des zentralen chilenischen Kontinentalrandes - Zusammenstellung der Ergebnisse von SO-101-SO-181. Statusseminar „Meeresforschung mit FS SONNE“, Warnemünde, 09.03.-11.03.2005.

Weinrebe, W., Ranero, C.R., Grevemeyer, I., Phipps-Morgan, J., Vannucchi, P., von Huene, R., and Wagner: Tektonik und Morphologie des Mittelamerikanischen Kontinentalrandes vor Guatemala und El Salvador - erste Ergebnisse der Fahrt SO-173/2. Statusseminar „Meeresforschung mit FS SONNE“, Warnemünde, 09.03.-11.03.2005.

Weinrebe, W., Ranero, C.R., Grevemeyer, I., von Huene, R., and Vannucchi, P.: Indications of Fluid Venting along the Middle American Subduction Zone of Guatemala. AGU Fall Meeting, San Francisco, USA, 05.12.-09.12.2005.

Weinrebe, W.: Multibeam Mapping of Submarine Slope Failures. Thai-German Seminar on „Cooperative Research and Capacity Building: Ocean Geosciences, Marine Ecology and Natural Hazard Management“, Phuket, Thailand, 29.03.-31.03.2005.

Wittig, N., Duggen, S., Baker, J.A., Kluegel, A., **Hoernle, K.:** HIMU lithospheric mantle beneath Northwest Africa, In: *Geochimica et Cosmochimica Acta*, **69** (10), Supplement 1, A288, Goldschmidt Conference, Moscow, Idaho, USA, 21.05.-25.05.2005.

Zenk, W., Siedler, G., Ishida, A., Holfort, J., Kashino, Y., Kuroda, Y., Miyama, T., and **Müller, T.J.:** Ausbreitungspfade von Arktischem Zwischenwasser im Westen des Äquatorialen Pazifischen Ozeans. BMBF Sonne Statusseminar, Warnemünde, 10.03.2005.

Zöllner, E., Hoppe, H.-G., Sommer, U., and Jürgens, K.: Zooplankton-mediated trophic cascades affect microbial food web structure

and bacterial diversity. ASLO Summer Meeting in Santiago de Compostela, Spain, 19.06.-24.06.2005.

Zumholz, K., Hansteen, T.H., Piatkowski, U., and Croot, P.L.: Temperature and salinity effects on the trace element incorporation into statoliths of cuttlefish (*Sepia officinalis*). ASLO Annual Summer Meeting, Santiago de Compostela, Spain, 23.06.2005.

6.3 Public Lectures

Adelung, D.: Robben in der Nordsee. Deutsches Meeresmuseum, Stralsund, 01.12.2005.

Bumke, K.: Wissenschaftliche Arbeiten im Forschungsbereich 1. Besuch der Akademie für Umwelt und Natur des Landes S.-H. im IFM-GEOMAR, Kiel, 17.02.2005.

Bumke, K.: Klima in der Krise. Welche Rolle spielt der Mensch? Vortragsreihe „Zwischen den Fischen“ im Rahmen der Kieler Woche. IFM-GEOMAR, Kiel, 20.06.2005.

Bumke, K.: Klimawandel und seine Auswirkungen. Veranstaltung des Nautischen Vereins Brunsbüttel e.V., Brunsbüttel, 17.10.2005.

Bumke, K.: Klimawandel: Ozeanzirkulation und Klimadynamik. Seminar über flieger- und tauchärztliche Aspekte sowie psychologisches Auswahlverfahren und Betreuung von Polizeibeamtinnen und -beamten der Polizeiführungsakademie, Kiel, 19.10.2005.

Bumke, K.: Beeinflusst der Mensch das Klima? Besuch des Gymnasiums Elmschenhagen am IFM-GEOMAR, Kiel, 08.11.2005.

Bumke, K.: Messung des Niederschlags über Land und See. Besuch des Gymnasiums Sylt. IFM-GEOMAR, Kiel, 10.11.2005.

Bumke, K.: Wissenschaftliche Arbeiten im Forschungsbereich 1. Besuch der Akademie für Umwelt und Natur des Landes S.-H. im IFM-GEOMAR, Kiel, 17.02.2005.

Dengler, M.: Wirbel in der Tiefsee. Fernseh-Interview Hessischer Rundfunk (HR3 ALLE WETTER!), Live im Studio, Frankfurt, 18.05.2005.

Devey, C.W.: Wie der Erdkern Mikroben ernährt. „Night of the Profs“, Universität Kiel, 19.11.2005.

Dullo, W.-Chr.: Korallen im Zeugenstand: Wie änderte sich das Klima? Abendvortrag, Bibliotheksausschuss der DFG, Centro Italo-Tedesco Villa Vigoni, Loven di Menaggio (Como), Italy, 12.10.2005.

Ehlers, A., and Langhanki, N.: Der unsichtbare Unterschied – genetische Diversität in Seegraswiesen. Kieler Woche – Aquariumsvorträge, Kiel, 21.06.2005.

Grevemeyer, I.: Erdbeben in Subduktionszonen – Steuerungsmechanismen und Gefahrenpotential. Geowissenschaftliches Kolloquium, Christian-Albrechts-Universität, Kiel, **Date??**, 2005.

Imhoff, J.F.: Leben unter Extrembedingungen. Schleswig-Holsteinische Universitätsgesellschaft Kiel. Neustadt, OH-Klinikum, 01.11.2005.

Imhoff, J.F.: Neue Medikamente aus dem Meer. Schleswig-Holsteinische Universitätsgesellschaft Kiel. Hanerau-Hademarschen, 10.05.2005.

Klaucke, I.: Das Echolot - Die Tiefe hören, Jahresversammlung der Seglergemeinschaft „Wappen von Bremen“ Bremen, 05.11.2005.

Körtzinger, A.: Der Ozean im Zeitalter des globalen Klimawandels, oder: CO₂ wohin, woher; welche Rolle spielt das Meer? Aquariumsvorträge zur Kieler Woche, 24.06.2005.

Kraus, G.: Fisch und Fischerei in der Barentssee. „Die Zeit“-Reisen, Kirkeness, Norway, 06.03.2005.

Kuhn, T.: Freiburger Tiefsee-Expeditionen in

den Atlantik in 2004 – Anlass und Ergebnisse. Öffentlicher Vortrag auf Einladung durch die Naturwissenschaftliche Gesellschaft e.V., Dresden, 17.11.2005.

Latif, M.: Klimawandel – globale Herausforderung des Naturschutzes. NABU-Bezirksverband Donau-Bodensee, Radolfzell, 08.01.2005.

Latif, M.: Verändert der Mensch das Klima? Schleswig-Holsteinische Universitätsgesellschaft, Elmshorn, 18.01.2005.

Latif, M.: Aktueller Stand der Klimaforschung. Verleihung des Umweltpreises an Frau R. Verheyen, Universität Hamburg, 21.01.2005.

Latif, M.: Aktueller Stand der Klimaforschung. Deutsche Bahn AG - Bahn-Umwelt-Zentrum Berlin, Klimaschutzveranstaltung, 25.01.2005.

Latif, M.: Der globale Klimawandel und seine Auswirkungen. Abwasser-Zweckverband Pinneberg, Pinneberg, 28.01.2005.

Latif, M.: Ozonloch und Treibhauseffekt – Verändert der Mensch das Weltklima? ATLAS-Zentraleinkauf, Jahrestreffen, Bad Kissingen. 29.01.2005.

Latif, M.: Ozonloch und Treibhauseffekt – Verändert der Mensch das Klima? Universität Heidelberg, 13.02.2005.

Latif, M.: Thema: Klimawandel. Öffentliche Veranstaltungsreihe „Rotes-Sofa-Gespräch“, Literaturhaus Stuttgart, 22.02.2005.

Latif, M.: El Niño. Scientific Hearing on the "Impact of Climate Change", European Commission, Brüssel, Belgien, 24.02.2005.

Latif, M.: Der globale Klimawandel und seine Folgen. Forum Umwelt der Kreisverwaltung Mainz-Bingen, 04.03.2005.

Latif, M.: Warnsignal Klima – wird Wasser knapper? Fachtagung Akademie für Natur- u. Umweltschutz, Umweltministerium Baden-Württemberg, Karlsruhe, 08.03.2005.

Latif, M.: Klimaveränderung. Europ. Akademie Otzenhausen, Otzenhausen, 12.03.2005.

Latif, M.: Verändert der Mensch das Klima? Festvortrag anlässlich 96. Bundeskongress MNU (Mathematik- und naturwissenschaftl. Unterricht), Kiel, 17.03.2005.

Latif, M.: Ozonloch – Treibhauseffekt – Verändert der Mensch das Klima? Heimatgemeinschaft Eckernförde e.V., Eckernförde, 22.03.2005.

Latif, M.: Der globale Klimawandel – Was wir jetzt tun müssen. SPD Hamburg, 31.03.2005.

Latif, M.: Verändert der Mensch das Klima? Schleswig-Holsteinische Universitätsgesellschaft, Vortrag in St. Peter-Ording, 05.04.2005.

Latif, M.: Verändert der Mensch das Klima? Schleswig-Holsteinische Universitätsgesellschaft, Vortrag in Kiel-Kronshagen, 14.04.2005.

Latif, M.: Der globale Klimawandel: Was wir jetzt tun müssen. Verein der Motorjournalisten VDM - Kongress, Aachen, 29.04.2005.

Latif, M.: Verändert der Mensch das Klima? Austrian Carbon Management ACM – Klimaschutztag in Wien, 12.05.2005.

Latif, M.: Verändert der Mensch das Klima? Hermann-Ehlers-Akademie, Kiel, 17.05.2005.

Latif, M.: Verändert der Mensch das Klima? Eröffnungsvortrag, Energieforum Pinneberg, Pinneberg, 19.05.2005.

Latif, M.: Globale Klimaveränderungen: Stand

der Technik. Deutsche Richterakademie, Trier, 24.05.2005.

Latif, M.: Verändert der Mensch das Klima? Ev.-Luth. Kirchenkreis Melle, 10.06.2005.

Latif, M.: Ozonloch und Treibhauseffekt – Verändert der Mensch das Klima? Johannisloge, Eutin, 16.06.2005.

Latif, M.: Verändert der Mensch das Klima? Versicherungskontor Martens & Prahl, Geschäftsführertreffen, Lübeck, 16.06.2005.

Latif, M.: Die Welt im Treibhaus. Ev. Studentengemeinde Saarland, Uni Saarbrücken, 28.06.2005.

Latif, M.: Der globale Klimawandel und seine Auswirkungen. Forum für Verantwortung, Stiftung für nachberufliche Bildung, Frankfurt, 30.06.2005.

Latif, M.: Klimaschutz und Solarenergie. Magistrat der Stadt Frankfurt, Umweltamt, 07.07.2005.

Latif, M.: Verändert der Mensch das Klima? Bundesverband Solarindustrie e.V., Berlin, Vortrag in Emmendingen, 12.07.2005.

Latif, M.: Verändert der Mensch das Klima? Lions Club, Kiel, 27.09.2005.

Latif, M.: Verändert der Mensch das Klima? Gesamtschule Walddörfer, Hamburg, 28.09.2005.

Latif, M.: Klimawandel. British Embassy Berlin, Science and Innovation Section, 05.10.2005.

Latif, M.: Hitzerekorde und Jahrhundertflut. VHS Reutlingen, 11.10.2005.

Latif, M.: Der globale Klimawandel und seine Auswirkungen. AG „Buchlese“, Neuwied, 13.10.2005.

Latif, M.: Podiumsdiskussion der Süddeutschen Zeitung, München, 26.10.2005.

Latif, M.: Verändert der Mensch das Klima? Lise-Meitner-Schule, Stühr b. Bremen, 03.11.2005.

Latif, M.: The Challenge of Long-term Climate Change. „Commodities Investing Forum“, Annual Academy & Finance Events New York and Geneva, Genf, Schweiz, 16.11.2005.

Latif, M.: Verändert der Mensch das Klima? Schleswig-Holsteinische Universitätsgesellschaft, Bordesholm, 17.11.2005.

Latif, M.: Aufgaben und Pflichten von Experten. Umweltkolloquium, Forschungszentrum Jülich, 22.11.2005.

Latif, M.: Verändert der Mensch das Klima? Lions-Club Kiel, 24.11.2005.

Latif, M.: PHOENIX Wissenschaftsforum Petersberg zum Thema „Brennpunkt Erde – Klimaschutz und Klimawandel“, Königswinter, 30.11.2005.

Latif, M.: Verändert der Mensch das Klima? Borgdorf/Seedorf, 13.12.2005.

Latif, M.: Verändert der Mensch das Klima? Rendsburg, 15.12.2005.

Lenz, M.: Weltweit durchgeführte Experimente: Eine neue Forschungsmethode in der Meeresökologie. 8. Maasholmer Meereskundliche Vorträge, Naturerlebniszentrum Maasholm, 31.05.2005.

Linke, P.: Autonome Landersysteme zur Erforschung der Gashydrate. 2. Internationales Medienfestival für die Geowissenschaften (GeOmovie), Göttingen, 04.05.2005.

Linke, P.: Gashydrate – Energiequelle der

Zukunft? Naturforschende Gesellschaft, Basel, Schweiz, 06.07.2005.

Linke, P.: Autonome Landersysteme zur Erforschung der Gashydrate. Kolloquium „Ausgewählte Kapitel der Meerestechnik“, Rostock, 08.12.2005.

Macke, A.: Eis, Wasser, Dampf: was ist das? Vortrag aus der Reihe „Pfiff“ auf der Phänomenta, Flensburg, 03.07.2005.

Petersen, S.: Einzigartige Ökosysteme und potenzielle Rohstofflieferanten am Meeresgrund. Aquariumsvortrag, Kiel, 23.06.2005

Petersen, S.: Heiße Quellen in der Tiefsee. Geologische Gesellschaft Essen, 11.10.2005

Riebesell, U.: Ozean der Zukunft: Wohin geht die Reise? NaT Working Symposium, Kiel, 21.10.2005.

Schaber, M.: Bestandssituation der fischereilich wichtigen Arten. Vorstellung der Ergebnisse des BfN-F&E-Vorhabens „Wege zu einer natur- und ökosystemverträglichen Fischerei am Beispiel ausgewählter Gebiete der Ostsee“. Deutsches Meeresmuseum, Stralsund, 12.10.2005.

Schnack, D.: Ist die Ostsee leer gefischt? Wer ist schuld? Leibniz-Institut für Meereswissenschaften, Kiel, 28.06.2005.

Schönfeld, J.: Die Karibik und ihre Bedeutung für unsere Lebensverhältnisse in Mitteleuropa. Vortragsreihe der Freunde Der Geologie München e.V., Bayerisches Geologisches Landesamt, München, 15.02.2005.

Steinhoff, T.: CO₂ wohin, woher – welche Rolle spielt das Meer? NaT Working Symposium, Kiel, 21.10.2005.

Stramma, L.: Physikalische Ozeanographie. Studien-Informations-Tage, Universität Kiel, 30.03.2005.

Weinberger, F.: Einfluss von Meeresalgen auf Biofouling? - NatWorking-Vortragsveranstaltung „Meeresforschung am IFM-GEOMAR“, Leibniz-Institut für Meereswissenschaften, Kiel, 21.10.2005.

7. Scientific Exchange & Cooperation

7.1 Visitors at IFM-GEOMAR

- Abramova, E.:** Lena Delta Nature Reserve, Tiksi, Sakha Republic, Russia, 07.11.-16.12.2005.
- Agbayani, E.:** WorldFish Center, Außenstelle Los Baños, Philippines, 17.10.-04.11.2005.
- Agurto, C.:** Universidad de Concepción, Chile, DAAD Doktorandenstipendium, April 2003 - September 2006.
- Alvarez, F.:** Universidad de Alcalá, Alcalá de Henares, Spain, 01.08.2005-03.02.2006.
- Are, F.E.:** Petersburg State University of Means of Communications, St. Petersburg, Russia, 11.07.-10.08.2005.
- Arora, K.:** National Geophysical Research Institute, Hyderabad, India 01.08.-30.09.2005.
- Biswas, H.:** University of Calcutta, Department of Marine Science, West Bengal, India, 01.10.2004-30.09.2005
- Canning Clode, J.:** Madeira Univ., PhD since November 2005.
- Coelho, T.:** Faculty of Marine Sciences and Environment, University of the Algarve, Faro, Portugal, October 2005 - February 2006.
- Dorador, C.:** Universidad de Chile, Chile, DAAD PhD, 01.04.2004-01.04.2007.
- Eero, M.:** University of Southern Denmark, Odense, October 2005 - February 2006.
- Emery, W.J.:** University of Colorado, Boulder, USA, 10.09.2005-28.02.2006.
- Fratantoni, D.:** WHOI, Woods Hole, MA, USA, 11.04.-23.04.2005.
- Gamfeldt, L.:** Tjärnö Marine Biological Laboratory, Göteborg University & Stockholm University, Strömstad, Sweden. Program for Joined German-Swedish Research Collaboration (DAAD). September 2004, Dezember 2005-
- Gorodinskiy, A.:** St. Petersburg State University, St. Petersburg, Russia, 31.08.-20.09.2005.
- Gulev, S.K.:** P.P. Shirshov Institute for Oceanology, Moscow, Russia, 02.04.-07.04.2005 and 20.11.-25.11.2005.
- Gusev, E.:** All-Russian Research Institute for Geology and Mineral Resources of the World Ocean, St. Petersburg, Russia, 06.03.-02.04.2005.
- Isla, A.:** Universidad de Oviedo, Spain. Postdoctoral fellowship Fundación Ramón Areces. November 2005 - November 2006.
- Javid, J.:** Gorgan University, Iran. PhD grant of the Ministry of Science Research and Technology, Iran. October 2004 - September 2008.
- Jiang, Y.:** Yunnan University, China, 01.07.2004-30.06.2005.
- Kahle, R.:** Bullard Laboratories, Univ Cambridge, UK. 01.10.-30.11.2005.
- Kim, O.K.:** Kangwon National University, Chunchon, Korea, DAAD PhD grant, April 2004 - April 2007.
- Knudsen, M.:** Department of Earth Sciences, University of Oxford, UK, 18.09.-02.10.2005.
- Koldunov, N.:** State Research Center - Arctic and Antarctic Research Institute, St. Petersburg, Russia, 30.11.-25.12.2005.
- Kostygov, S.:** St. Petersburg State University, St. Petersburg, Russia, 31.08.-20.09.2005.
- Kumar, P.A.:** DAAD Exchange Program. Fawaharlal Nehru Technological University, Kukatpally, Hyderabad, Indien, 16.07.-11.10.2005.
- Kumar, P.A.:** DAAD Exchange Program. Fawaharlal Nehru Technological University, Kukatpally, Hyderabad, Indien, 15.11.2004-15.02.2005.
- Lutjeharms, J.R.E.:** University of Cape Town, South Africa, 15.04.-30.04.2005.
- McKinnon, D.:** Senior Scientist, Australian Institute of Marine Science, Townsville, Australia, 05.09.-23.09.2005.
- Nishimura, Y.:** Institute of Seismology and Volcanology, Hokkaido University, Sapporo, Japan, 01.08.2005-04.08.2005.
- Novikhin, A.:** State Research Center - Arctic and Antarctic Research Institute, St. Petersburg, Russia, 04.12.-21.12.2005.
- Ollitrault, M.:** IFREMER, Brest, France, 15.04.-21.04.2005 & 24.09.-30.9.2005.
- Olson, D.:** RSMAS, Miami, FL, USA, 16.10.2004-11.02.2005.
- Prast, M.:** Universität Salzburg, FB Organismische Biologie, 17.11.-23.11.2005.
- Radjasa, O.K.:** Foster-Stipendium, Humboldt. Department of Marine Science, Diponegoro University, Tembalang, Central Java, Indonesien, 12.07.2004-12.06.2005.
- Rekant, P.:** All-Russian Research Institute for Geology and Mineral Resources of the World Ocean, St. Petersburg, Russia, 06.03.-16.04.2005.
- Rius, S.:** WorldFish Center, Außenstelle Los Baños, Philippines, 17.10.-04.11.2005.
- Sasikala, Ch.:** DAAD Exchange Program. Fawaharlal Nehru Technological University, Kukatpally, Hyderabad, Indien, 01.05.-31.05.2005.
- Scheirer, R.:** SMHI, Norrsköpping, Sweden, 14.11.-18.11.2005.
- Send, U.:** Scripps Institution of Oceanography, San Diego, CA, USA, 15.08.-22.08.2005.
- Silber, Y.:** Institut für Ostseeforschung, Warnemünde, 21.11.-09.12.2005.
- Singh, B.:** National Geophysical Research

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Institute, Hyderabad, India, 03.08.-21.08.2005.

Srinivas, T.N.R.: DAAD Exchange Program. Fawaharlal Nehru Technological University, Kukatpally, Hyderabad, Indien, 15.11.2004-15.02.2005 & 14.12.2005-14.03.2006.

Stepanova, A.: Paleontological Institute of the Russian Academy of Sciences, Moscow, Russia, 11.12.2005-10.01.2006.

Taldenkova, E.: Moscow State University, Moscow, Russia, 07.11.-16.12.2005.

Timokhov, L.: State Research Center – Arctic and Antarctic Research Institute, St. Petersburg, Russia, 27.04.-21.05.2005.

Tiwari, V.M.: National Geophysical Research Institute, Hyderabad, India, 01.08.-30.09.2005.

7.2 Visits by IFM-GEOMAR staff

Aberle-Malzahn, N., and Hansen, T.: Research visit on behalf of GIF (German Israel Foundation), The Interuniversity Institute for Marine Sciences in Eilat, Israel, Prof. Dr. Anton Post, 19.09.-14.10.2005.

Bange, H.: Ocean Research Group, University Newcastle upon Tyne, Department of Marine Science and Coastal Management, Newcastle, UK, 22.05.-03.07.2005.

Begler, C.: Scripps Institution of Oceanography, San Diego, CA, USA, 06.10.-18.11.2005.

Clemmesen, C.: Forschungsaufenthalt im Rahmen eines DFG Forschungsstipendiums, University of Rhode Island, Graduate School of Oceanography, USA, Prof. Dr. Larry Buckley, 01.09.2005-31.08.2006.

Froese, R.: WorldFish Center, Außenstelle Los Baños, Philippines, 03.02.-25.02.2005.

Froese, R.: WorldFish Center, Außenstelle Los Baños, Philippines, 01.12.-23.12.2005.

Gocke, K.: Departamento de Microbiología, Universidad de Concepción, Chile, 14.11.-02.12.2005

Gocke, K.: Departamento de Microbiología, Universidad de Concepción, Chile, 10.01.-28.01.2005

Hoppe, H.-G.: Departamento de Biologia, Universidade de Aveiro, Portugal, 13.06.-19.06.2005.

Hoppe, H.-G.: Sino-German Summer School, China Ocean University, Qingdao, China 19.09.-01.10.05.

Imhoff, J.F., and Süling, J.: DAAD Exchange Program. Fawaharlal Nehru Technological University, Kukatpally, Hyderabad, Indien, 15.11.-30.11.2005.

Imhoff, J.F., and Wiese, J.: The Key Laboratory for Microbial Resources, Ministry of Education, Yunnan Institute of Microbiology, Yunnan University, Kunming, China, 28.02.-04.03.2005.

Keenlyside, N.: Universidad de Alcala de Henares, Spain, 04.07.-8.07.2005.

Lankhorst, M.: Summer School on Lagrangian Oceanography. Graduate School of Oceanography / Univ. of Rhode Island, USA, 25.07.-05.08.2005.

Löptien, U.: Shirshov Institute for Oceanology, Moscow, Russia, 18.05.-19.06.2005.

Macke, A.: EUMETSAT, Darmstadt, 07.03.-11.03.2005.

Matthiessen, B.: Marine Biological Laboratory, Göteborg University & Stockholm University, Strömstad, Sweden. Program for Joined German-Swedish Research Collaboration (DAAD). May – July 2004, May – August 2005.

Neumann, U.: Scripps Institute of Oceanography, San Diego, CA, USA, 21.02.-30.03.2005.

Saage, A.: Marie-Curie-Grant, Norwegian University of Science and Technology, Trondheim, Norway, 17.05.2005-22.06.2005; 01.12.-08.12.2005.

Scharffenberg, M.: Scripps Institution of Oceanography, San Diego, CA, USA, 21.02.-27.03.2005.

Schmidt, S.: Scripps Institution of Oceanography, San Diego, CA, USA, 27.11.2004-28.02.2005.

Testor, P.: Scripps Institution of Oceanography, San Diego, CA, USA, 06.06.-15.07.2005.

Wecker, B.: Marine Science Station, University of Jordan, Aqaba, Jordanien, 02.08.-12.08.2005.

Willebrand, J.: CSIRO Marine Research Institute, Hobart, Tasmania, 01.11.-31.12.2005.

7.3 Conferences & Meetings (organized by IFM-GEOMAR staff)

Bange, H.W.: Poseidon 320/1 - Air-sea interaction off Mauritania, Workshop, Kiel, 28.09.2005.

Devey, C.W.: Tectonic and Oceanic Processes along the Indian Ocean Ridge System, Goa, India, 19.01.-21.01.2005.

Devey, C.W.: International MOMAR implementation workshop, Lisbon, Portugal, 07.04.-09.04.2005.

Devey, C.W.: InterRidge Steering Committee Meeting, Kiel, Germany, 11.04.-12.04.2005.

Dullo, W.-Chr.: Convener and Chair person of session: Climate of the last millenium: reconstructions, analyses and explanation of regional and seasonal changes. EGU - 2nd General Assembly & Congress European Geosciences, Vienna, Austria, 24.04.-29.04.2005.

Freitag, K.: Ridge 2000 and InterRidge Field School and Field Trip, Troodos Ophilete, Cyprus, 12.05.-18.05.2005.

Freitag, K.: 3rd International Symposium on Seep and Hydrothermal Vent Biology, California, USA, 12.09.-16.09.2005.

Froese, R., and Kaschner, K.: Maps for All Marine Species. 2nd Programmers' workshop, Kiel, 02.12.-03.12.2005.

Froese, R., Opitz, S., and Binohlan, C.: INCOFISH Start-up Workshop, Kiel, 04.10.-07.10.2005.

Hanel, R.: Chair, Mariculture-Session, InWaterTech, Kiel, 02.09.2005.

Lackschewitz, K.: 2.Kolloquium des Schwerpunktprogramms (SPP 1144) "Vom Mantel zum Ozean: Energie-, Stoff- und Lebenszyklen", Etelsen bei Bremen, 28.06.-30.06.2005.

Lenz, M.: International Workshop on Biostatistics. Kiel, 25.05.-27.05.2005.

Lenz, M.: International Workshop on Biostatistics. Kiel, 29.11.-03.12.2005.

Linke, P.: Kick-off-Meeting, Methane in the Geo-/Biosystem, IFM-GEOMAR, Kiel, 10.02.2005

Lochte, K.: AGU Conference, Chair of special session "Analysing the Links between Present Oceanic Processes and Paleo-Records. Ocean Sciences" San Francisco, USA, 04.12.-09.12.2005.

Macke, A., and Nevoigt, F.: "3rd I3RC Workshop", IFM-GEOMAR & Color Fantasy, 11.10.-14.10.2005.

Macke, A., and Lohmann, U.: Session "Clouds, Aerosol and Radiation", EGU 2005, Vienna, Austria, 25.04.-29.04.2005.

Rumohr, H.: Meeting ICES Benthos Ecology Working Group, Copenhagen, Denmark, 18.04.-22.04.2005.

Rumohr, H.: Meeting ICES Marine Habitat Committee, Aberdeen, UK, 20.09.-

Conferences & Meetings

24.09.2005.

Schönfeld, J.: The Micropalaeontological Society's Foraminifera and Nannofossil Groups Joint Spring Meeting 2005, National Oceanography Centre, Southampton, UK, 16.06.-17.06.2005.

Send, U., **Karstensen, J.**, and Pouliquen, S.: MERSEA Workpackage 3 Meeting #3, Météo-France Conference Centre, Toulouse, France, 28.03.-29.03.2005.

Send, U., **Karstensen, J.**, and Pouliquen, S.: MERSEA Workpackage 3 Meeting #4, Paris, IFREMER Headquarters, Issy, France, 26.10.-27.10.2005.

Sommer, U.: 2nd Aquashift-Workshop, Kiel, 28.09.-30.09.2005.

Wahl, M.: Chemically Mediated Interaction Webs in Aquatic System. Wilhelmshaven, 26.09.-27.09.2005.

Wallace, D.W.R.: Co-Convenor of Special Session "Biogeochemistry of the Tropical Atlantic Ocean", ASLO Summer Meeting, Santiago de Compostela, Spain, 23.06.2005.

Zöllner, E.: Kick-off meeting EU-Project "OOMPH", Montabaur, 05.09.-07.09.2005.

7.4 Colloquia and Seminars at IFM-GEOMAR

Meereswissenschaftliches Kolloquium

14.01.2005

Dr. Donald B. Olson, University of Miami, Florida, USA: "Connectivity in the Greater Caribbean".

14.01.2005

Dr. Henning Bauch, Paläo-Ozeanographie, IFM-GEOMAR, Kiel: "Paläoklimarekonstruktion und Vorhersagbarkeit - eine tückenhafte Verknüpfung?".

21.01.2005

Dr. Jeremy Thomason, University of Newcastle, Newcastle, UK: "What can we learn from studies of the behaviour of marine animals?".

28.01.2005

Prof. Dr. Chris German, Hydrothermal Processes Group, Southampton Oceanography Centre, Southampton, UK: "Hydrothermal Activity at Slow and Ultra-Slow Ridges: what Ridge 2000 is missing = a job for InterRidge!".

04.02.2005

Dr. Herwig Stibor, Department Biologie II, Universität München: "Tropische Kaskaden im marinen Pelagial".

11.02.2005

Dr. Richard Warwick, Plymouth Marine Laboratory, Plymouth, UK: "Measuring Marine Biodiversity".

21.02.2005

Dr. Uwe Scholz, GTZ - Deutsche Gesellschaft für Technische Zusammenarbeit, and **Richter, Dr. Claudio**, ZMT - Zentrum für Marine Tropenökologie, Bremen: "Hätten intakte Riffe Menschenleben retten können? Bericht von einer Mission zu Untersuchungen zum Zustand von Küstenbiotopen in Thailand".

21.03.2005

Christina Augustin, Alfred Wegener Institut für Polar- und Meeresforschung, Aussenstelle List/Sylt: "Einfluss von Nährstofflimitation auf die Reproduktion von *Acartia sp.* (Copepoda)".

22.03.2005

Prof. Dr. Peter Halbach, Freie Universität Berlin, Fachrichtung Geochemie, Hydrogeologie, Mineralogie; "Geochemische Spurensignale - das Gedächtnis der Massivsulfide".

11.04.2005 & 12.04.2005

Sonderkolloquium Nachfolge Prof. Erwin Suess

PD Dr. Klaus Wallmann, IFM-GEOMAR, Kiel: "Element Cycling in the Ocean: The Role of Sediments".

Prof. Dr. Kay-Christian Emeis, Institut für Ostseeforschung, Warnemünde: "Globaler Wandel und Biogeochemische Zyklen".

Prof. Dr. Hans-Jürgen Brumsack, Institut für Chemie und Biologie des Meeres, Universität Oldenburg, Oldenburg:

"Wenn dem Ozean die Luft ausgeht: Spurenmetalle als Proxies Corg-reicher Sedimentation".

Prof. Dr. Ulrich Wortmann, Department of Geology, University of Toronto, Toronto, Canada: "Reflux brines in carbonate ramp settings: An example from the South Australian continental shelf".

Prof. Dr. Andreas Mackensen, xxx: "Umweltsignale aus stabilen C-Isotopen von der Grenzfläche zwischen Wasser und Sediment".

15.04.2005

Dr. David Fratantoni, Physical Oceanography Department, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, U.S.A., "Tropical Rings - A summary of recent North Brazil Current and Somali Current ring observations".

Sonderkolloquium zum 65. Geburtstag von Dr. Walter Zenk

22.04.2005

Prof. Dr. Gerold Siedler, IFM-GEOMAR: "Walter Zenk, the ocean observer".

22.04.2005

Prof. Dr. Thomas Rossby, University of Rhode Island, Narragansett, USA: "Letting the ocean express itself - through floats".

Prof. Dr. Johann R.E. Lutjeharms, University of Cape Town, South Africa: "The South-West Indian Ocean; an important frontier in oceanographic understanding".

Prof. Dr. Laurence Armi, Scripps Institution of Oceanography, University of California at San Diego, USA: "Two decades of meddies".

Dr. Olaf Boebel, Alfred-Wegener Institut für Polar- und Meeresforschung, Bremerhaven: "Direct observations of oceanic flow".

06.05.2005

Dr. Heike Lüger, Ocean Chemistry Division, NOAA Atlantic Oceanographic and Meteorological Laboratory, Miami, Florida, U.S.A.: "Volunteer Observing Ships and CO₂ fluxes in the North Atlantic".

13.05.2005

Dr. Peter Linke, IFM-GEOMAR, Kiel: "LOTUS: Langzeit-Observatorium zur Untersuchung der Steuermechanismen bei der Bildung und Destabilisierung von Gashydraten - Resümee und Ausblick".

20.05.2005

Dr. Walter Salzburger, Lehrstuhl Evolutionsbiologie & Nachwuchsgruppe "Evolutionary Genomics", Universität Konstanz: "The enigma of the explosive evolution of cichlid fishes in the lakes in the East African Rift Valley".

03.06.2005

Dr. Kristin Kaschner, Sea Around Us Project & Forschungs- und Technologiezentrum Westküste, Bülsum: "Competition between marine mammals and fisheries on a global scale: food for thought".

17.06.2005

PD Dr. Karen Wiltshire, Biologische Anstalt Helgoland, Helgoland: "40 Jahre

Helgoland Reede-Langzeitdatenserie: neue ökologische Erkenntnisse".

24.06.2005

Prof. Dr. Martin Claussen, Potsdam-Institut für Klimafolgenforschung, Potsdam: "The past is the key to the future - eine Kritik geologischer Paläoanaloge".

01.07.2005

Dr. Jörg Schulz, Deutscher Wetterdienst, Offenbach: "Operational Climate Monitoring from Space: The Satellite Application Facility on Climate Monitoring (CM-SAF)".

08.07.2005

Prof. Dr. Stefan Rahmstorf, Potsdam-Institut für Klimafolgenforschung, Potsdam: "Ocean Circulation and Abrupt Climate Change: Understanding Dansgaard-Oeschger Events".

15.07.2005

Prof. Dr. Stephan Borrmann, Abteilung Wolkenphysik und -chemie, Max-Planck-Institut für Chemie & Johannes Gutenberg Universität Mainz: "Aerosole und Wolken in der tropischen Tropopausenregion: Eine Perspektive von in-situ Messungen".

08.09.2005

Sonderkolloquium

Prof. Dr. Johannes F. Imhoff, Marine Mikrobiologie, IFM-GEOMAR, Kiel: "Marine Wirkstoffforschung am IFM-GEOMAR - Vorstellung eines neuen Projektes".

12.09.2005

Sonderkolloquium

Dr. David McKinnon, The Australian Institute of Marine Science, Townsville, Australia: "The Biological Oceanography of Australia's North West Cape".

28.10.2005

Dr. Masaki Miya, Department of Zoology, Natural Museum & Institute, Chiba, Japan: "Phylogeny and Evolution of the Ray-Finned Fishes: A New Perspective Based on >750 Whole Mitochondrial Genome Sequences".

04.11.2005

Prof. Dr. Timothy Reston, RD4 - Dynamics of the Ocean Floor, IFM-GEOMAR, Kiel: "The formation of non-volcanic rifted margins and the initiation of seafloor spreading".

18.11.2005

Dr. Andrew Allen, Princeton University, USA / Ecole Normale Supérieure, Paris, France: "Molecular and Genomic Approaches to Nitrogen Metabolism in Aquatic Microbes".

25.11.2005

Prof. Dr. Craig Smith, Biological Oceanography, Department of Oceanography, University of Hawaii at Manoa, Honolulu, USA: "Whale falls, chemosynthetic communities and species extinctions at the deep-sea floor".

02.12.2005

PD Dr. Thorsten Reusch, Max-Planck-Institut für Limnologie, Plön: "Marine

Colloquia & Seminars

Ökologie in Zeiten der Genomforschung".

09.12.2005

Prof. Dr. Jon Whitman, Department of Ecology and Evolutionary Biology, Brown University, Providence, Rhode Island, U.S.A.: Global patterns of marine diversity: influence of productivity and the regional species pool".

Seminar

Sonderforschungsbereich 460

10.01.2005

Prof. Dr. J. Toole, Woods Hole Oceanographic Institution, Woods Hole, MA, U.S.A.: "Station W: Observing the Deep Western Boundary Current south of Woods Hole".

17.01.2005

Prof. Dr. F. Schott, IFM-GEOMAR, Kiel: "Die flache Meridionalzirkulation des tropisch-subtropischen Ozeans".

24.01.2005

Prof. Dr. A. Körtzinger, Dipl.-Geol. J. Schimansky, IFM-GEOMAR, Kiel: "Sauerstoff als Prozessindikator - ein alter Parameter in neuem Licht".

31.01.2005

Dipl.-Geol. M. Zuvela, Institut für Geowissenschaften an der Universität Kiel, Kiel: "Impact of glacial sea-level changes on the Indonesian Throughflow".

08.02.2005

Prof. Dr. J. Toole, Woods Hole Oceanographic Institution, Woods Hole, MA, USA: "Vertical mixing in a thermohaline staircase".

11.04.2005

Dr. D. Kieke, Institut für Umweltphysik an der Universität Bremen, Bremen: "Bildung und Export von Labradorseewasser".

18.04.2005

Dr. D.M. Fratantoni, Woods Hole Oceanographic Institution, Woods Hole, MA, USA: "Autonomy in physical oceanography: On the growing role of autonomous platforms and vehicles in oceanographic research".

21.04.2005

Prof. Dr. T. Rossby, University of Rhode Island, RI, USA: "Interannual variations in upper ocean transport by the Gulf Stream and adjacent waters between New Jersey and Bermuda".

25.04.2005

Dr. M. Schmidt, Institut für Ostseeforschung Warnemünde, Warnemünde: "Ein regionales Modell des südlichen Atlantiks".

09.05.2005

Dr. N. Keenlyside, IFM-GEOMAR, Kiel: "Equatorial Atlantic variability and its interaction with ENSO".

13.06.2005

Prof. Dr. D. Dommenges, IFM-GEOMAR, Kiel: "Changes in the Atmospheric Circulation due to Extra-Tropical Air-Sea interaction".

20.06.2005

Dr. M. Pfeiffer, IFM-GEOMAR, Kiel: "Korallen als Klimaarchive: 1. Temperatur- und Salzgehaltsänderungen in der Karibik. 2. Die ENSO-Telekonnektion im tropischen Indischen Ozean".

27.06.2005

Prof. Dr. M. Allen, University of Oxford, Oxford, UK: "Dealing with model error in the attribution and prediction of climate change".

04.07.2005

Prof. Dr. R.H. Käse, Institut für Meereskunde an der Universität Hamburg, Hamburg: "Das Framstrassen - Paradoxon".

11.07.2005

Dr. S. Godfrey, CSIRO Commonwealth Scientific and Industrial Research Organisation, Hobart, Australia: "Mixing and the surface heat budget in the tropical Indian Ocean".

31.10.2005

Prof. Dr. W. Emery, Colorado Center for Astrodynamical Research, University of Boulder, CO, USA: "Near-realtime Surface Current Mapping with Radiometry and Altimetry".

07.11.2005

Dr. G.H. Burgers, Royal Netherlands Meteorological Inst. KNMI, De Bilt, The Netherlands: "The very simplest picture of El Niño".

14.11.2005

Dipl.-Oz. U. Krebs, National Oceanography Centre, Southampton, UK: "Glaziale Heinrich Ereignisse im gekoppelten Modell: Die Bedeutung atmosphärischer feedbacks für die Stabilität der thermohalinen Zirkulation".

21.11.2005

Dipl.-Oz. M. Bersch, Institut für Meereskunde an der Universität Hamburg, Hamburg: "Beobachtungen zur Veränderung der thermohalinen Zirkulation im Nordatlantik in den letzten 15 Jahren".

05.12.2005

Prof. Dr. K. Krüger, IFM-GEOMAR, Kiel: "Die mittlere Atmosphäre im Klimawandel".

12.12.2005

Dr. J. Nauw-van der Vegt, Institute for Marine and Atmospheric research Utrecht (IMAU) Utrecht University, Utrecht, The Netherlands: "Observations of the southern East Madagascar Current and Undercurrent".

19.12.2005

Prof. Dr. M. Latif, IFM-GEOMAR, Kiel: "Verändert sich der Golfstrom?".

Seminar Sonderforschungsbereich 574

07.01.2005

Sonderveranstaltung: Evaluierung der Kandidaten für die Einrichtung einer Nachwuchsgruppe am SFB 574.

Dr. S. Carn: Global volcanic sulfur dioxide emissions in space and time

Dr. Svend Duggen: The nutrient mobilisation potential of subduction zones and its impact on the marine primary productivity and the global climate.

Dr. Matthias Haeckel: Gas and fluid transport in fore arc sediments: fracture mechanics and geochemical budgets

Dr. Marion Jegen-Kulcsar: Imaging the fluid distribution in the Central American subduction system using combined marine electromagnetic methods and joint inversion

Dr. Michael Riedel: Long-time monitoring and repeated geophysical imaging of cold vents associated with gas hydrates

Dr. Georg Zellmer: Volcanic hazard assessment through constraints on the rates and chronologies of subvolcanic processes, including magma ascent, storage, and evolution at subduction zones.

13.01.2005

Dr. M. Apel, TU Freiberg: „3D-Modellierung mit GOCAD auf der Basis von geophysikalischen Daten: theoretische Grundlagen und Anwendungsbeispiele“.

20.01.2005

Dr. I. Klaucke, IFM-GEOMAR, Kiel: "Waiting for DTS-1 sidescan sonar: was it worth it?".

24.02.2005

N. Fekete, SFB 574, Kiel: "Active Seismics Above The Hongo Mounds".

03.03.2005

U. Schacht, SFB 574, Kiel: "Tephra alteration in marine sediments - insights into alteration pathways and dissolution kinetics".

07.04.2005

M. Schnabel, SFB 574, Kiel: "Evidence for varying pore pressure below the decollement".

14.04.2005

Dr. R. Weiss, Universität Münster: "Towards understanding tsunami waves: theory, numerics, statistics and detection".

14.04.2005

Prof. T. Reston, IFM-GEOMAR/SFB 574, Kiel: "Work contents of the SFB 574 (Talk for the LAK in Potsdam)".

28.04.2005

K. Garofalo, SFB 574, Kiel: "The 'collapsing volcano' Mombacho (Nicaragua): 'Is it experiencing a renewed phase of volcanic activity?'".

05.05.2005

O. Bartsdorff, SFB 574, Kiel: "Box model

calculation of secular atmospheric CH₄ trend over Phanerozoic time".

11.05.2005

Prof. J. Stix, McGill University, Montreal, Canada: "New directions in caldera research".

12.05.2005

Prof. J. Stix, McGill University, Montreal, Canada: "Models of degassing at Masaya volcano, Nicaragua".

19.05.2005

H. Wehrmann, SFB 574, Kiel: "What the Fontana eruption emitted into the stratosphere, and why it was able to do that".

02.06.2005

Dr. C. Hensen, SFB 574, Kiel: "Fluid flow related to mud volcanism; case studies from Costa Rica and the Gulf of Cadiz".

08.06.2005

N. Dinc-Akdogan, TU Istanbul, Istanbul, Turkey: "Determination of 3-D P-wave velocity structure beneath Sultandag region by local earthquake tomography".

30.06.2005

M. Frische, SFB 574, Kiel: „Halogenierte Spurenstoffe in Fumarolengas still entgasender nicaraguanischer Vulkane“.

07.07.2005

Dr. J. White, Otago University, Dunedin, New Zealand: "Massive phreatomagmatic eruptions associated with flood basalts in Antarctica?".

07.07.2005

Prof. E. Hornibrook, Bristol Biogeochemistry Research Centre, Bristol, Grossbritannien: Anomalous ¹³C-depletion in marine pore water CH₄".

20.07.2005

Dr. J. Seeberg-Elverfeldt, AWI, Bremerhaven: "Rhizon sampling of pore waters near the sediment/water interface of aquatic systems".

28.07.2005

Dr. M. Thorwart, SFB 574, Kiel, "Wavefield methods to analyse passive OBS data".

02.08.2005

Dr. Y. Nishimura, Hokkaido University, Sapporo, Japan: "The 26 December off-Sumatra tsunami: evidence of run-up and sedimentation along the west coast of northernmost Sumatra, Indonesia, and the east coast of Sri Lanka".

17.08.2005

Dr. C. Pullinger, SNET, El Salvador, "Monitoring and geohazards in El Salvador".

26.08.2005

Prof. I. Leifer, UCSB, Santa Barbara, USA: "The Significance of Catastrophic (Blow-out) Seepage".

29.08.2005

Prof. G. Abers, Boston University, Boston, USA: "TUCAN: Imaging the Central America Subduction Factory".

Colloquia & Seminars

30.08.2005

Prof. G. Abers, Boston University, Boston, USA: "Subduction of very thick crust beneath Alaska: images, dehydration and geodynamics".

14.09.2005

Prof T. Plank, Boston University, Boston, USA: "Volatiles in Central American magmas".

22.09.2005

Prof. C. Shaw, Dept. of Geology, University of New Brunswick, Fredericton, Canada: „Magma - mantle interactions in the Eifel volcanic field".

24.11.2005

Dr. M. Meschede, Institut für Geographie und Geologie, Univ. Greifswald: „Late Cretaceous and Paleogene Geodynamics of Cuba and the North-Western Caribbean Region".

09.12.2005

U. Schacht, SFB 574, Kiel: „Alteration of volcanic glasses in marine sediments: alteration mechanisms and dissolution kinetics".

Mehrtägige Kolloquien:

Retreat des SFB 574, Akademie Sankelmark, 16.-18.08.2005

7.5 Expert Activities

Bauch, H.A.:

- Member, Working group „Arctic Shelf Seas" of ICARP II (International Conference on Arctic Research Planning)

Böning, C.:

- Chair, SFB 460 "Dynamik thermohaliner Zirkulationsschwankungen", CAU Kiel
- Co-Chair, CLIVAR Working Group on Ocean Model Development
- Member, WCRP Working Group on Coupled Modelling
- Member, Science Advisory Board of the German Climate Computer Centre (DKRZ)
- Member, Science Steering Committee of the High-Performance Computing Centre (HLRN)
- Member, Scientific Advisory Group, Community Earth System Models (COSMOS) initiative
- Reviewer for DFG, NSF, UK-NERC

Brandt, P.:

- Co-chair, AMMA International, Task team 6: Oceanic campaigns

Bumke, K.:

- Member BALTEX Working Group on Energy and Water Cycles

Clemmesen, C.:

- Member, Deutsche Wissenschaftliche Kommission für Meeresforschung (DWK).
- Member, ICES Working Group on Recruitment Processes.

Devey, C.:

- Chair, Interridge
- Chair, SPP1144 "From Mantle to the Ocean"

Dullo, W.-Chr.:

- Member, Senate Commission, German Research Council (DFG) for Oceanography
- German representative, CIESM (Commission internationale pour l'exploration scientifique de la mer Méditerranée)
- Member, Award Committee for Humboldt- and Wilhelm Bessel Research Awards (Alexander von Humboldt Foundation)
- Member, Committee for Scientific Libraries and Information Systems, German Research Council (DFG)
- Member, Steering Committee, IRCCM
- Member, Scientific Advisory Board, "Forschungsdialog: System Erde", IPN Kiel
- Member, Executive Committee, Geologische Vereinigung
 - Chair, Scientific Advisory Board, Deutsches Meeresmuseum Stralsund
 - Chair, Verein zur Förderung der Alfred-Wegener-Stiftung e.V.

Fischer, J.:

- Member, ARGO Steering Team

Frank, M.:

- Member, SCOR Working Group for the

planning of the international GEOTRACES program

Froese, R.:

- Member, Species 2000 (Management Team).
- Member, International Committee Ocean Biogeographic Information System (OBIS).

Hanel, R.:

- German representative, ICES Mariculture Committee.
- Member, ICES Working Group on Application of Genetics in Fisheries and Mariculture.
- Member, ICES/EIFAC Working Group on Eels.
- Member, ICES Working Group on Marine Fish Welfare.
- Member, Deutsche Wissenschaftliche Kommission für Meeresforschung (DWK).

Herzig, P.M.:

- Maritime Coordinator of the State of Schleswig-Holstein
- Chair, German Marine Research Consortium
- Member, "Senat und Hauptausschuss", Deutsche Forschungsgemeinschaft
- Member, Senate Commission on Geosciences, Deutsche Forschungsgemeinschaft
- President, International Marine Minerals Society, USA
- Elected Reviewer, Deutsche Forschungsgemeinschaft
- Advisor, United Nations International Seabed Authority
- Member, Curatorium, Bundesanstalt für Geowissenschaften und Rohstoffe (BGR), Hannover
- Chair, Review Board, R/V METEOR cruises & projects, Deutsche Forschungsgemeinschaft

Hinrichsen, H.-H.:

- Member, ICES Working Group on Modeling of Physical/Biological Interactions.

Hoernle, K.:

- Member, InterRidge Work Group "Ridge-Hotspot Interaction"

Imhoff, J.F.:

- Chairman, ICBS Subcommittee on the Taxonomy of Phototrophic Bacteria.
- Member, Scientific steering committee of the International Symposium of Phototrophic Bacteria.

Kassens, H.:

- Head, Otto Schmidt Laboratory for Polar and Marine Research
- Chair, Working group „Arctic Shelf Seas“ of ICARP II (International Conference on Arctic Research Planning)
- Member, Nansen Arctic Drilling Program (NAD)
- Member, Arctic Climate System Study (ACSYS)
- Member, International Ocean Drilling Program (IODP) Detailed Planning Groups for Arctic Drilling
- Member, International Arctic Polynya

Programme (AOSB; IAPP)

- Member, Shelf-Basin Exchange Initiative (AOSB; SBE)
- Member, German Committee of the „International Arctic Science Committee“ and the „Science Committee on Antarctic Research“

Körtzinger, A.:

- Member, Scientific Steering Committee, IMBER (Integrated Marine Biogeochemistry & Ecosystem Research)
- Co-Chair, Joint SOLAS/IMBER Carbon Implementation Group
- Member, Scientific Steering Group, IOCCP (International Ocean Carbon Coordination Project)
- Member, CLIVAR (Climate Variability & Predictability) Atlantic Panel

Kraus, G.:

- Member, ICES Planning Group on Cod and Plaice Egg Surveys in the North Sea.
- Member, ICES Study Group on Baltic Fish and Fisheries Issues in Support of the Baltic Sea Regional Project.
- Member, ICES Working Group on Baltic Fisheries Assessment Working Group.
- TOR Co-leader, Northwest Atlantic Fisheries Organization (NAFO): Scientific Council Working Group on Reproductive Potential.

Kubetzki, U.:

- Member, ICES Working Group on Seabird Ecology.
- Board Member, German Council for Bird Preservation.
- Member, Study Group on Multispecies Assessments in the North Sea. ICES SGMSNS.

Kuhn, T.:

- Society of Economic Geologists (SEG); Society for Geology Applied to Mineral Deposits (SGA); American Geophysical Union.

Latif, M.:

- Member of the JSC/CLIVAR WGCM (Working Group on Global Coupled Modelling)

Lehmann, A.:

- Member, BALTEX Scientific Steering Group
- Member, BALTEX Working Group on Energy and Water Cycles
- Chair, BALTEX Phase II Implementation Plan Writing Team
- Member, DFN-(Deutsches Forschungsnetz) Verein

Lochte, K.:

- Member, Wissenschaftsrat
- Chair, Scientific Advisory Board, Institut der Chemie und Biologie des Meeres (ICBM), Oldenburg
- Member, Scientific Advisory Board, Potsdam Institut für Klimafolgenforschung (PIK), Potsdam
- Member, Scientific Advisory Board, Max-Planck-Institut für Marine Mikrobiologie (MPI) Bremen
- Vice-chair, National Committee for Global

Expert Activities

- Change Research (NKGCF)
- Chair, Senate Commission of the German Research Council (DFG) for Oceanography
- Member, Fachkollegium for "Atmosphere and Marine Sciences" of the German Research Council (DFG)
- Vice-Chair, International Geosphere Biosphere Programme (IGBP)
- Founding member, Academy of Sciences, Hamburg
- Chair, Scientific Advisory Board, Annette-Barthelt Foundation
- Selection Committee for WGL Research Awards

Macke, A.:

- Member, WCRP GEWEX Radiation Panel (GRP)
- Member, METEOSAT Third Generation MTG User Mission Team
- Convener, EGU sessions (multiple)

Müller, T.J.:

- Member, 'Ocean Fleet Working Group' (OFWG) of the Marine Board of the European Science Foundation (ESF)
- Member, 'Ocean Fleet Exchange Group' (OFE) within the multilateral agreement on exchange of ship time and large equipment (BMBF, IFREMER, NERC, NIOZ)

Piatkowski, U.:

- German representative, ICES Living Resources Committee.
- Member, ICES Working Group on Cephalopod Life Cycles and Fisheries.
- Member, Deutsche Wissenschaftliche Kommission für Meeresforschung (DWK).
- Member, Scientific Steering Committee, Census of Marine Life (CoML) pilot project: Patterns and processes of the ecosystems of the northern mid-Atlantic (MAR-ECO).
- Member, Scientific Advisory Board of the Annette-Barthelt-Foundation.

Reston, T.:

- Chair SFB574: Volatiles and Fluids in Subduction Zones

Riebesell, U.:

- Member of Royal Society working group on CO₂-related ocean acidification
- Chair of task group for SCOR/IOC Symposium on "The Ocean in a High CO₂ World" (<http://ioc.unesco.org/iocweb/co2panel/HighOceanCO2.htm>)
- Contributing author of Millennium Ecosystem Assessment (<http://www.millenniumassessment.org/en/index.aspx>)
- Member of SOLAS implementation group Focus 3
- Member of SOLAS/IMBER Joint Carbon Implementation group
- Member of SOLAS national steering group
- Member of Faculty of 1000, section 'Global Change Ecology'

Rohlf, N.:

- Member, ICES Planning Group for Herring Surveys in the North Sea.

- Member, ICES Herring Assessment Working Group.
- Member, ICES Planning Group on Cod and Plaice Egg Surveys in the North Sea.

Rumohr, H.:

- Member, DWK (Deutsche wiss. Kommission für Meeresforschung).
- Chairman, ICES Benthos Ecology Working Group.
- Chairman, ICES Marine Habitat Committee.
- Member, ICES ACME (Advisory Committee for the Environment).
- Member, ICES Consultative Council.
- Erasmus Beauftragter, IFM-GEOMAR für Aberdeen, Tromsø und Barcelona.
- IFM-GEOMAR Beauftragter, Feldstationen in Maasholm (zusammen mit G. Hoffmann-Wiek und Arbeit im NEZ Förderverein).
- MARBEF Projekt Datenarchäologie und Datenbanking, Bilddatensicherung.

Schmidt, J.O.:

- Member, ICES Working Group on Zooplankton Ecology.

Schnack, D.:

- Chair, "Deutsche Wissenschaftliche Kommission für Meeresforschung" (DWK).
- Member, ICES, Council of national delegates.
- Member, ICES Planning Group for Herring Surveys in the North Sea.
- Member, Scientific Advisory Board, "Deutscher Fischereiverband".
- Member, International Advisory Board of POLMARF of the Sea Fisheries Institute MIR, Gdynia, Poland.

Schönfeld, J.:

- Member, Subkommission für Kreide-Stratigraphie
- Chair, Foraminifera Group, The Micropalaeontological Society

Schott, F.:

- Member, GCOS-GOOS-WCRP Ocean Observations Panel for Climate (OOPC)
- Member, International CLIVAR Indian Ocean Implementation Panel

Sommer, U.:

- Chair, Board of Trustees of the Max-Planck-Institute for Limnology, Plön.

Spielhagen, R.F.:

- Member, Steering Committee, CARE (Climate of the Arctic and its Role for Europe)
- Member, Steering Committee, APEX (Arctic Paleoclimate and its EXTremes)

Thetmeyer, H.:

- Member, ICES Working Group on Environmental Interactions of Aquaculture (WGEIM)

Visbeck, M.:

- Chair, International CLIVAR Atlantic Sector Implementation Panel
- Member, NOAA-OAR/OGP Climate observing system council
- Member, COPES Task Force WCRP

- Steuergruppe BMBF Verbundprojekt "ATLANTISCHER OZEAN"
- Member, Steuergruppe "Mittelgroße Forschungsschiffe" der Bund-Länder-Arbeitsgruppe "Deutsche Forschungsflotte"
- Member, RAPID Steering Committee
- Member, Steering Committee, Netzwerk "Ozean der Zukunft", CAU, Kiel,
- Member, GEO (Group on Earth Observations) Science and Technology Panel

Voss, R.:

- Member, GLOBEC SPACC/IOC Study Group on Regional Scale Ecology of Small Pelagic Fish.
- Member, ICES Study Group on Baltic Fish and Fisheries Issues in Support of the Baltic Sea Regional Project.
- Member, ICES Study Group on Multispecies Assessments in the Baltic.
- Member, ICES Study Group on Multispecies Model Implementation in the Baltic.

Waller, U.:

- Member, Deutsche Wissenschaftliche Kommission für Meeresforschung (DWK).

Wallace, D.W.R.:

- Member, SOLAS International Steering Committee
- Member Advisory Board, Inst. Baltic Sea Research, Warnemünde
- Member, UK SOLAS Thematic Program Steering Committee
- Theme Leader and Steering Committee Member, CarboOcean EU Integrated Project
- Member Advisory Board, Hanse Wissenschaftskolleg, Delmenhorst

Wegner, C.:

- Member, Working group "Arctic Shelf Seas" of ICARP II (International Conference on Arctic Research Planning)

Weinrebe, W.:

- Member, Beirat der Deutschen Hydrographischen Gesellschaft

Willebrand, J.:

- Intergovernmental Panel on Climate Change (Convening Lead Author)

Zumholz, K.:

- Member, ICES Working Group on Cephalopod Life Cycles and Fisheries.

7.6 Editorial Boards

Böning, C.:

- Ocean Modelling (Editorial Board)

Devey, C.:

- Journal of Petrology (Editorial Board)

Dullo, W.-Chr.:

- International Journal of Earth Sciences – Geologische Rundschau (Chief Editor)
- Facies (Associate Editor)
- Marine Ecology (Associate Editor)

Froese, R.:

- Acta Ichthyologica et Piscatoria (Editorial Board).
- Journal of Applied Ichthyology (Editorial Board).

Gocke, K.:

- Anales del Instituto de Investigaciones Marinas de Punta de Betin, Columbia (Editorial Advisor).
- Anales del Instituto de Ciencias del Mar y Limnologia, Mexiko, (Editorial Advisor).
- Revista de Biologica Tropical, Costa Rica, (Editorial Advisor).

Hoernle, K.:

- International Journal of Earth Science (Editorial Board)

Hoppe, H.-G.:

- Aquatic Microbial Ecology, Germany, (Review Editor).
- Marine Ecology Progress Series, (Review Editor).
- The Journal of Microbiology, Korea, (Advisory Board).

Imhoff, J.F.:

- International Microbiology, (Editorial Board).

Kubetzki, U.:

- Journal of German Bird Conservation Reports (Editor).

Macke, A.:

- Meteorologische Zeitschrift, Advisory Board

Riebesell, U.:

- Biogeosciences (Co-Editor, Editorial Board)

Schnack, D.:

- Archive of Fishery and Marine Research (Editorial Board).
- Journal of Applied Ichthyology (Editor).

Schott, F.:

- DSR I and DSR II (Associate Editor)

Sommer, S.:

- Marine Ecology (Editorial Board)

Sommer, U.:

- Protist (Associate Editor).
- Oecologia (Handling Editor).
- International Review of Hydrobiology (Editorial Board).
- Ecology Letters (1997-2004) (Editorial Board).
- Basic and Applied Ecology (Editorial Board).

Editorial Boards

- Aquatic Sciences (Editorial Board).
- Ecological Studies (Springer) (Series Editor).

Wahl, M.:

- Marine Ecology Progress Series (Editorial Board).

7.7 Prizes and Awards

Dengg, J.:

- 1. NaT-Working Preis, NaT-Working "Meeresforschung", Robert Bosch Stiftung.

Form, A.:

- Förderpreis für Nachwuchswissenschaftler des ZTS (Zentrum für Maritime Technologie und Seefischmarkt GmbH), 2005.

Herzig, P.:

- Hawley Medal of the Mineralogical Association of Canada for the best publication in Canadian Minerals (see publications).

Kassens, H.:

- Medal for Merits, St. Petersburg State University.
- Preis für Maritime Technologie, K.E.R.N.-Region.

Lube, G.:

- David Crighton Research Fellowship, University of Cambridge, 2005. (*awarded to young scholars in the field of fluid mechanics*)
- Young Scientist's Travel Award for the Poster: **Lube, G.**, Huppert, H.E., Platz, T., Sparks, R.S.J., Freundt, A., Cronin, J.S. and Procter, J.: Transport and sedimentation processes of small-volume pyroclastic flows. EGU, Vienna, Austria, 24.04.-29.04.2005, Vienna.

Schott, F.:

- Starr Lecturer, Massachusetts Institute of Technology (MIT).
- Prince Albert I Medal, Internat. Association for the Physical Sciences of the Ocean (IAPSO).

Spindler, G.:

- Förderpreis für Nachwuchswissenschaftler des ZTS (Zentrum für Maritime Technologie und Seefischmarkt GmbH), 2005.

Willebrand, J.:

- "AGU Fellow", American Geophysical Union (AGU).

Zenk, W.:

- Deep-Sea Research-Special Edition "Direct observations of oceanic flow – A tribute to Walter Zenk". Eds.: Boebel, O., Siedler, G., Lutjeharms, J.R.E., *Deep-Sea Research II*, **52** (3-4).

7.8 Patents

Petrick, G.:

- Verfahren zum Austreiben von Gasen und leichtflüchtigen Substanzen aus Wasser mittels Hochfrequenz, Deutsches Patent- und Markenamt, Germany, DE000010164434A1, erteilt.

8. Teaching Courses 2005

8.1 External teaching courses

Dommenget, D.: The Physics of Global Warming. Sino-German Summer School on Marine Sciences, Ocean University of China, Qingdao, China, 19.09.-30.09.2005.

Dullo, W.-Chr.: Living and Non Living Resources: Oil and Gas Exploration, St Petersburg, Ruassia, 11.05.-16.05.2005.

Dullo, W.-Chr.: Organic rich sediments. Source rock potential for hydrocarbon exploration. Sino-German Summer School on Marine Sciences, Ocean University of China, Qingdao, China, 19.09.-30.09.2005.

Hanel, R.: Meeresbiologischer Kurs, Leopold-Franzens-Universität Innsbruck, Rovinj, Kroatien, 16.07.-30.07.2005.

Hanel, R.: The effects of climate change on fish populations. Sino-German Summer School on Marine Sciences, Ocean University of China, Qingdao, China, 19.09.-30.09.2005.

Hoppe H.-G.: Microbiological processes in anoxic marine environments - Warming of the Oceans, Sino-German Summer School on Marine Sciences, Ocean University of China, Qingdao, China, 19.09.-30.09.2005.

Lochte, K.: Basic Biological Processes in the Global Carbon Cycle & Specific Aspects of Global Change in the Pelagic System. Sino-German Summer School on Marine Sciences, Ocean University of China, Qingdao, China, 19.09.-30.09.2005.

Sommer, S.: Warming of the Oceans - Effects on Seabed Methane Emission and Benthic Carbon Turnover. Sino-German Summer School on Marine Sciences, Ocean University of China, Qingdao, China, 19.09.-30.09.2005.

Visbeck, M.: Physics of the Environment, WE-Heraeus Summerschool, Bad Honnef, 28.08.-03.09.2005.

8.2 Teaching at Christian-Albrechts-Universität zu Kiel

Please note: This is an extract of the official course listing of the Christian-Albrechts-Universität zu Kiel. IFM-GEOMAR staff in bold.

W I N T E R - S E M E S T E R 2004/2005

Physikalische Ozeanographie

Introduction to Physical Oceanography I (2)	<i>N.N.</i>
Übungen zur Physikalischen Ozeanographie I (2)	<i>N.N.</i>
Introduction to Physical Oceanography II (2)	<i>N.N.</i>
Physikalische Ozeanographie III: Globale Schichtung und thermohaline Zirkulation (2)	M. Visbeck
Übungen zur Vorlesung: Physikalische Ozeanographie III: Globale Schichtung und thermohaline Zirkulation (2)	P. Brandt
Praktikum der Physikalischen Ozeanographie (für Nebenfächler)	J. Karstensen
Proseminar zum Praktikum der Physikalischen Ozeanographie (für Nebenfächler) (1)	J. Karstensen
Angewandte Programmierübungen UNIX/Fortran/Matlab (für Nebenfächler) (2)	J. Karstensen, P. Brandt
Einführung in die Theoretische Ozeanographie und Meteorologie I: Hydrodynamik (2)	J. Willebrand
Übungen zur Vorlesung: Einführung in die Theoretische Ozeanographie und Meteorologie I: Hydrodynamik (2)	<i>N.N.</i>
Einführung in die Theoretische Ozeanographie und Meteorologie III: Numerische Methoden in Zirkulationsmodellen (2)	C. Böning
Übungen zur Vorlesung: Einführung in die Theoretische Ozeanographie und Meteorologie III: Numerische Methoden in Zirkulationsmodellen (2)	<i>N.N.</i>
Arbeitsgemeinschaft Klimadynamik	M. Latif, J. Willebrand
Seminar für Diplomanden der Physikalischen Ozeanographie (2)	C. Böning, M. Visbeck, J. Willebrand
Seminar für Doktoranden der Physikalischen Ozeanographie (2)	C. Böning, M. Visbeck, J. Willebrand
Ozeanographisch-Meteorologisches Seminar (2)	C. Böning, M. Latif, A. Macke, D. Dommenget

Ozeanographisches Seminar für Fortgeschrittene (SFB 460) (2)

**C. Böning,
A. Körtzinger, M. Latif,
A. Macke,
D. Dommengeset,
A. Macke, D. Wallace,
J. Willebrand**

Meteorologie

Einführung in die Meteorologie I (2)

A. Macke

Übungen zur Einführung in die Meteorologie I (2)

H. Mehrstens

Einführung in die Theoretische Ozeanographie und Meteorologie I:
Hydrodynamik (2)

J. Willebrand

Übungen zur Vorlesung: Einführung in die Theoretische
Ozeanographie und Meteorologie I: Hydrodynamik (2)

N.N.

Einführung in die Theoretische Ozeanographie und Meteorologie III:
Numerische Methoden in Zirkulationsmodellen (2)

C. Böning

Übungen zur Vorlesung: Einführung in die Theoretische
Ozeanographie und Meteorologie III: Numerische Methoden in
Zirkulationsmodellen (2)

N.N.

Fernerkundung (2)

A. Macke

Physikalische Klimatologie (2)

M. Latif

Übungen zur Vorlesung: Physikalische Klimatologie (2)

D. Dommengeset

Meteorologisches Fortgeschrittenenpraktikum (10)

K. Bumke, K. Uhlig

Arbeitsgemeinschaft Klimadynamik (2)

M. Latif, J. Willebrand

Seminar Wetteranalyse und -prognose ("Wetterbesprechung") (1)

K. Bumke, T. Martin

Übung zur Wetteranalyse und -prognose (3)

K. Bumke, T. Martin

Seminar für Diplomanden und Doktoranden der Meteorologie (2)

**M. Latif, A. Macke,
D. Dommengeset**

Anleitung zum wissensch. Arbeiten: Strahlungstransport &
Fernerkundung (2)

A. Macke

SFB 460 Seminar

**C. Böning,
A. Körtzinger, M. Latif,
A. Macke,
D. Dommengeset,
A. Macke, D. Wallace,
J. Willebrand**

Ozeanographisch-Meteorologisches Seminar (2)

**C. Böning, M. Latif,
A. Macke,
D. Dommengeset**

Meereschemie

Allgemeine Meereschemie I (2)

A. Körtzinger

Übungen zur Vorlesung: Allgemeine Meereschemie I (1)

H. Bange

Klimarelevante Spurengase im Ozean (1)

H. Bange

Phytoplankton: from genome to ecology (2)

J. LaRoche, P. Croot

Marine Photochemistry (1)

P. Croot

Meereschemisches Praktikum I mit Seminar (4)

**A. Körtzinger, H. Bange,
P. Croot**

Meereschemisches Praktikum II mit Seminar (4)

**A. Körtzinger, H. Bange,
P. Croot, A. Eisenhauer,
G. Rehder**

Seminar des Forschungsbereichs Marine Biogeochemie (2)

U. Riebesell, A. Körtzinger

Anleitung zum selbständigen wissenschaftlichen Arbeiten

A. Körtzinger

Biologische Meereskunde und Fischereibiologie¹

Teaching Courses

Chemical Oceanography (BIOOCEAN) (2)	A. Körtzinger
Exercises in Chemical Oceanography (BIOOCEAN) (2)	P. Croot
Grundlagen der Ökologie für Meereskundler (2)	U. Sommer
Seminar des Forschungsbereichs Marine Ökologie (2)	U. Sommer, M. Wahl
Seminar des Forschungsbereichs Marine Biogeochemie (2)	A. Körtzinger, U. Riebesell
Introduction to Biological Oceanography and Fishery Biology I (3)	H.G. Hoppe, J.F. Imhoff, K. Lochte, D. Schnack, U. Sommer, M. Wahl
Übungen zur Vorlesung: Introduction to Biological Oceanography and Fishery Biology I (3)	H.G. Hoppe, J.F. Imhoff, K. Lochte, D. Schnack, U. Sommer, M. Wahl
Arbeitsgruppenseminar Experimentelle Ökologie (2)	U. Sommer
Seminar zur Benthosökologie (Limnologie und Meeresbiologie) (2)	M. Wahl, M. Zimmer
Biologie fischereilich genutzter Organismen (1)	R. Hanel, U. Piatkowski
Einführung in die biologische Statistik (3)	D. Schnack
Biologische Grundlagen der modernen Aquakultur (2)	R. Hanel
Anleitung zu selbständigen wissenschaftlichen Arbeiten	G. Hubold, D. Schnack, R. Hanel
Seminar zur Biologischen Meereskunde und Fischereibiologie (2)	D. Schnack, U. Sommer, R. Hanel, U. Riebesell, A. Antia
Experimentelle Ökologie A: Vom Modell zum Versuch (15)	M. Wahl, A. Antia, N.N.
Funktionsmorphologie und Ökologie mariner Wirbelloser (1)	M. Wahl
Experimentelle Ökologie B: Vom Versuch zur Präsentation (4)	M. Wahl
Einführung in die Marine Mikrobiologie (1)	J.F. Imhoff
Seminar der Marinen Mikrobiologie (2)	J.F. Imhoff, H.-G. Hoppe
Seminar Molekulare Mikrogenökologie (1)	J.F. Imhoff, J. Sülting
Seminar für Diplomanden und Doktoranden (2)	J.F. Imhoff
Gewässermikrobiologische Methoden mit Anwendungsbeispielen aus der marinen und limnischen Forschung (1)	H.-G. Hoppe
Einführung in die Datenverarbeitung und Statistik für Diplom- und Examenkandidaten (1)	S. Garthe, H. Hötter
Kolloquium für Diplomanden und Doktoranden der Ornithologie (2)	S. Garthe, H. Hötter
Anleitung zu selbständigen wissenschaftlichen Arbeiten	G. Hubold, D. Schnack, R. Hanel
Basisveranstaltung für Hauptfächler: Biologisch-Meereskundliches Großpraktikum (16)	R. Hanel, H.-G. Hoppe, J.F. Imhoff, K. Lochte, D. Piepenburg, U. Riebesell, S. Schiel, D. Schnack, U. Sommer, M. Spindler, M. Wahl, K. Gocke, G. Kraus, I. Peecken, U. Piatkowski, H. Rumohr, J. Sülting, R. Voss,
Basisveranstaltung für Nebenfächler: Biologisch-Meereskundliches Großpraktikum (16) (mit Seminar), NF	R. Hanel, H.-G. Hoppe, J.F. Imhoff, K. Lochte, D. Piepenburg, S. Schiel, D. Schnack, U. Sommer, M. Wahl, K. v. Bröckel, K. Gocke, G. Kraus, U. Piatkowski, H. Rumohr, J. Sülting, R. Voss,

Ergänzungsveranstaltung für Nebenfächler
Biologisch Meereskundliches Großpraktikum
(mit Seminar), NF Teil 2.1 und 2.2 (8)

**R. Hanel, H.-G. Hoppe,
J.F. Imhoff, K. Lochte,
D. Piepenburg, S. Schiel,
D. Schnack, U. Sommer,
M. Wahl, K. v. Bröckel,
K. Gocke, G. Kraus, U.
Piatkowski, H. Rumohr,
J. Süling, R. Voss**

Fächerübergreifend

Meereskundliches Kolloquium (2)

**Dozenten der
Meereskunde**

¹⁾ Please note that only courses with contributions by IFM-GEOMAR staff are listed.

Geowissenschaften: Geologie, Geophysik, Mineralogie¹

Forschergruppen Kolloquium "Ocean Gateways" (1)

*J.M. Sarnthein-Lotichius,
und wiss. Mitarbeiter*

Geowissenschaftliches Kolloquium (2)

Dozenten und Assistenten

Allgemeine Geowissenschaften

Geologische Übungen II (Kartenkunde I) (2)

D. Nürnberg

Geologische Übungen II (Blockkurs) 14-tägiger Blockkurs, ganztägig

D. Nürnberg, B. Bock,

Geologie Hauptstudium

Allgemeine und Historische Geologie

Meeresgeologie: Einführung in die Paläozooanologie (2)

D. Nürnberg, N.N.

Praktikum: Introduction to Marine geology (3)

**A. Eisenhauer,
E. Suess, K. Wallmann,
P. Linke, D. Nürnberg, O.
Pfannkuche,
G. Rehder, T.J. Reston**

Geophys. Seminar II: Die Entwicklung der Plattentektonik (3)

T.J. Reston

SFB 574 Seminar

Dozenten des SFB 574

Paläontologie

Blockkurs: Foraminiferen im schleswig-holsteinischen Wattenmeer (2)

J. Schönfeld, W. Kuhnt

Einführung in die Paläobotanik: Makro- und Mikroflora (2)

W. Brenner

Petrologie-Geochemie

Einführung in die Geochemie der Gesteine (2)

K. Hoernle

Geochemie magmatischer Systeme Seminar (3)

K. Hoernle

Fluid- und Schmelzeinschlüsse in magmatischen Mineralien

Th. Hansteen

Magmatismus der Erde mit mikroskopischen Übungen (3)

Th. Hansteen

Sr-Nd Isotopenanalytik (4)

F. Hauff, K. Hoernle

Vulkanismus (2)

A. Freundt

Sedimentologie und Paläozooanographie

Aktuelle Methoden zur Paläoklimaforschung: Vom Sedimentkern zum Klimaverständnis

**D. Nürnberg,
R. Tiedemann,
J. Schönfeld**

Foraminiferen-Geochemie: Anwendungen für Paläoumwelt-Rekonstruktionen (1)

D. Nürnberg

Seminar: Fortschritte der Karbonatsedimentologie für Doktoranden (2)

J. Reijmer, W.-Ch. Dullo

Marine Umweltgeologie

Einführung in die marine Geochemie I (2)

Marine Isotopensysteme

Geologie und Geochemie der Gashydrate (1)

Der marine Methankreislauf und sein Einfluss auf C- und H-Isotopen (II) (2)

Grundlagen der Isotopenanalyse und Anwendungen in der Geologie (Blockkurs 2-wöchig)

Literatur-Seminar: Marine Umweltgeologie (2)

K. Wallmann, E. Suess

A. Eisenhauer

G. Rehder

G. Rehder

**A. Eisenhauer, B. Bock,
G. Rehder**

**A. Eisenhauer, B. Bock,
K. Wallmann, G. Rehder,
E. Suess**

Exkursionen

Petrologische Geländeübung Gran Canaria

H.-U. Schmicke

Geophysik Hauptstudium

Allgemeine Geophysik

Magnetfeld der Erde (2)

I. Grevemeyer

Praktika, Seminare und Exkursionen

Geophysikalisches Seminar II: Die Entwicklung von Plattentektonik (2)

T.J. Reston

Seminar: Aktuelle Forschungsthemen in der marinen Geodynamik (2)

T.J. Reston, H. Kopp

Mineralogie Hauptstudium

Einführung in die Geochemie der Gesteine (2)

K. Hoernle

Magmatismus der Erde mit mikroskopischen Übungen (3)

Th. Hansteen

Petrologie-Geochemie

Fluid- und Schmelzeinschlüsse in magmatischen Mineralien

Th. Hansteen

Geochemie magmatischer Systeme Seminar (3)

K. Hoernle

Pb Isotopenanalytik (1)

K. Hoernle, F. Hauff

Vulkanologie (2)

A. Freundt

¹⁾ Please note that only courses with contributions by IFM-GEOMAR staff are listed.

Physikalische Ozeanographie

Meßmethoden in der Physikalischen Ozeanographie (2)	M. Visbeck, P. Brandt, J. Fischer, T.J. Müller, L. Stramma
Praktikum der Physikalischen Ozeanographie (für Hauptfächler) (2)	J. Karstensen
Proseminar zum Praktikum der Physikalischen Ozeanographie (für Hauptfächler) (1)	J. Karstensen
Angewandte Programmierübungen UNIX/Fortran/Matlab (2) (für Hauptfächler)	P. Brand, D. Dommenges
Praktikum der Physikalischen Ozeanographie (für Nebenfächler) (2)	M. Visbeck
Proseminar zum Praktikum der Physikalischen Ozeanographie (für Nebenfächler) (1)	J. Karstensen
Angewandte Programmierübungen UNIX/Fortran/Matlab (1) (für Nebenfächler)	P. Brandt
Physikalische Ozeanographie IV: Lange Wellen und ozeanische Klimaschwankungen (2) (für Hauptfächler)	M. Visbeck
Übungen zur Vorlesung: Physikalische Ozeanographie IV Lange Wellen und ozeanische Klimaschwankungen (für Hauptfächler) (2)	P. Brandt
Vorlesung Physikalische Ozeanographie Ozeanische Wassermassen und Klimaschwankungen (für Nebenfächler) (1)	J. Karstensen
Übungen zur Vorlesung Physikalische Ozeanographie Ozeanische Wassermassen und Klimaschwankungen (für Nebenfächler) (1)	P. Brandt
Inverse Modellierung und Datenassimilation (2)	J. Willebrand
Statistische Analysen in der Klimaforschung (2)	D. Dommenges
Übungen zu Statistische Analysen in der Klimaforschung (2)	D. Dommenges
Einführung in die Theoretische Ozeanographie IV: Dynamik großräumiger Bewegungen (2)	C. Böning
Arbeitsgemeinschaft Klimadynamik (2)	M. Latif, J. Willebrand, M. Visbeck
Übungen zur Einführung in die Theoretischen Ozeanographie II: Dynamik großräumiger Bewegungen (2)	A. Biastoch
Seminar für Diplomanden der Physikalischen Ozeanographie (2)	C. Böning, M. Visbeck, J. Willebrand
Seminar für Doktoranden der Physikalischen Ozeanographie (2)	C. Böning, M. Visbeck, J. Willebrand
Ozeanographisch-Meteorologisches Seminar (2)	C. Böning, M. Latif, M. Visbeck, A. Macke, D. Dommenges
Ozeanographisches Seminar für Fortgeschrittene (SFB 460) (2)	C. Böning, A. Körtzinger, M. Latif, A. Macke, A. Oschlies, M. Visbeck, D.W.R. Wallace, J. Willebrand
Interdisziplinäres Seminar: Modern and Past Biogeochemical Cycles	D.W.R. Wallace, R. Schneider, D. Nürnberg, M. Weinelt, H. Kinkel

Meteorologie

Einführung in die Meteorologie II (2)
 Übungen zur Einführung in die Meteorologie II (2)
 Proseminar zum Instrumentenpraktikum (1)
 Meteorologisches Instrumentenpraktikum (5)
 Angewandte Programmierübungen UNIX/Fortran/Matlab
 (für Hauptfächler) (2)
 Einführung in die Theoretische Meteorologie IV:
 Allgemeine Zirkulation und Energetik (2)
 Übungen zur Einführung in die Theoretischen Meteorologie IV -
 Allgemeine Zirkulation und Energetik (2)
 Statistische Analysen in der Klimaforschung (2)
 Übungen zur Vorlesung Statistische Analysen in der Klimaforschung
 (2)
 Arbeitsgemeinschaft Klimadynamik (2)

 Seminar Wetteranalyse und –prognose ("Wetterbesprechung") (1)
 Übung zur Wetteranalyse und –prognose (3)
 Seminar für Diplomanden der Meteorologie (2)

 Ozeanographisch-Meteorologisches Seminar (2)

 Ozeanographisches Seminar für Fortgeschrittene (SFB 460) (2)

 Anleitung zu selbständigen wissenschaftlichen Arbeiten:
 Strahlungstransport und Fernerkundung

A. Macke
A. Macke
K. Bumke
K. Bumke
P. Brandt,
D. Dommenges
M. Latif

H. Mehrkens

D. Dommenges
D. Dommenges

M. Latif, J. Willebrand,
M. Visbeck

K. Bumke, T. Martin
K. Bumke, T. Martin

M. Latif, A. Macke,
D. Dommenges

C. Böning, M. Latif,
M. Visbeck, A. Macke,
D. Dommenges,
P. Brandt

C. Böning,
A. Körtzinger, M. Latif,
A. Macke, M. Visbeck,
D.W.R. Wallace,
J. Willebrand

A. Macke

Meereschemie

Allgemeine Meereschemie II (2)
 Übungen zur Vorlesung Allgemeine Meereschemie II (1)

 Der marine Kohlenstoffkreislauf (2)

 Aktuelle Themen der Meereschemie (1)

 Interdisziplinäres Seminar: Modern and Past Biogeochemical Cycles

 Trace Metal Speciation and Bioavailability in the Marine Environment
 (Marine Trace Metals) (2)
 Marine Photochemistry (2)
 Meereschemisches Praktikum I mit Seminar (4)
 Meereschemisches Praktikum II und Seminar (4)
 Seminar des Forschungsbereichs Marine Biogeochemie (2)

 Stoffkreisläufe im Meer (2)
 Anleitung zu selbständigen wissenschaftlichen Arbeiten

D.W.R. Wallace
D.W.R. Wallace,
P. Croot

U. Riebesell,
A. Körtzinger

D.W.R. Wallace,
A. Körtzinger

D.W.R. Wallace,
R. Schneider,
D. Nürnberg,
M. Weinelt, H. Kinkel

P. Croot

P. Croot

A. Körtzinger
A. Körtzinger

U. Riebesell,
A. Körtzinger

H. Bange, K. Lochte

A. Körtzinger,
D.W.R. Wallace

Teaching Courses

Biologisch-Meereskundliche Fächer¹

Einführung in die Biologische Meereskunde II (3)	H.-G. Hoppe, J.F. Imhoff, U. Sommer, K. Lochte, M. Spindler, M. Wahl
Ergänzungsveranstaltung für Hauptfächler: Biologische Meereskunde (10)	H.-G. Hoppe, J.F. Imhoff, J. LaRoche, K. Lochte, D. Piepenburg, U. Riebesell, U. Sommer, M. Wahl, K. Gocke, H. Rumohr, S. Schiel, J. Süling
Forschungsveranstaltung für Hauptfächler: Biologische Meereskunde (6)	H.-G. Hoppe, J.F. Imhoff, J. LaRoche, K. Lochte, D. Piepenburg, U. Riebesell, U. Sommer, M. Wahl, H. Rumohr, S. Schiel, J. Süling, J. LaRoche
Planktologisch-Meereskundliches Praktikum auf See (2-wöchig)	K. Lochte
Seminar des Forschungsbereichs Marine Biogeochemie (2)	U. Riebesell, A. Körtzinger
Übungen zur Biologischen Meereskunde (2)	K. Lochte, U. Riebesell
Arbeitsgruppenseminar Experimentelle Ökologie (2)	U. Sommer
Aktuelle Themen aus der Forschung der aquatischen Mikrobiologie (1)	H.-G. Hoppe
Ergänzungskurs Molekulare Mikrogenökologie	J.F. Imhoff, J. Süling
Experimentelle Ökologie A: Vom Modell zum Versuch (3)	M. Wahl, M. Lenz
Experimentelle Ökologie B: Vom Versuch zur Präsentation (4)	M. Wahl, M. Lenz
Bestimmungsübungen an Meerestieren mit Exkursionen (Ergänzungsveranstaltung) (4)	H. Gonschior, H. Rumohr, M. Wahl
Ökologie der Hardbodengemeinschaft Helgoland (6)	K. Bischof, M. Wahl, M. Zimmer
Seminar zur Benthosökologie (Limnologie und Meeresbiologie)	M. Wahl, M. Zimmer
Seminar des Forschungsbereichs Marine Biogeochemie (2)	U. Riebesell, A. Körtzinger
Seminar der Marinen Mikrobiologie (2)	H.-G. Hoppe, J.F. Imhoff
Seminar Molekulare Mikrogenökologie (2)	J.F. Imhoff

¹⁾ Please note that only courses with contributions by IFM-GEOMAR staff are listed.

Fischereibiologie¹

- Biologie und Nutzung mariner Fischbestände (2)
Aktuelle Themen aus Fischereibiologie und Aquakultur (1)

Aktuelle Themen zur Fischerei und Aquakultur Norwegens (1)
Spezialkurs Aquakultur (2)
Ergänzungsveranstaltung für Hauptfächler: Fischereibiologie (10)

Forschungsveranstaltung für Hauptfächler: Fischereibiologie (6)

Große Fischereibiologische Exkursion (3)
Seminar für Diplomanden und Doktoranden der Fischereibiologie (2)
Anleitung zu selbständigen wissenschaftlichen Arbeiten

D. Schnack
**D. Schnack, R. Hanel,
G. Kraus, C. Clemmesen,
R. Froese, U. Piatkowski**
R. Hanel
R. Hanel, H. Thetmeyer
**D. Schnack, R. Hanel,
G. Kraus, C. Clemmesen,
R. Froese, U.
Piatkowski, U. Waller**
**D. Schnack, R. Hanel,
G. Kraus, C. Clemmesen,
R. Froese, U. Piatkowski**
D. Schnack, R. Hanel
D. Schnack, R. Hanel
**G. Hubold, D. Schnack,
R. Hanel**

Fächerübergreifend

- Meereskundliches Kolloquium (2) *Professoren und Dozenten des IFM-GEOMAR*

Geowissenschaften: Geologie, Geophysik, Mineralogie¹

- Geowissenschaftliches Kolloquium (2) *Dozenten und Assistenten*

Allgemeine Geowissenschaften

- Erdgeschichte: Allgemeine Stratigraphie (2) **W.-Ch. Dullo,
D. Nürnberg**
Seminar Geowissenschaften für Anfänger *R. Schneider,
D. Nürnberg, H. Kinkel,
M. Weinelt*
Global Change - von Wissenschaft zu Politik (1) **G. Rehder**

Angewandte Geowissenschaften

- Geophysikalische Feldmessungen für Anfänger, Kurs IV (4) **H. Kopp, R. Hackney**
Geophysikalische Feldmessungen für Anfänger, Kurs V (4) **T.J. Reston, N.N.**

Geologie Hauptstudium

Allgemeine und Historische Geologie

- Karbonatsedimentologie (2) *H. Kinkel, J. Reijmer,
O. Weidlich*
Tektonik und Klima (1) **D. Nürnberg**
Einführung in die Paläoozeanographie (2) **R. Schneider,
D. Nürnberg**
Fonaminiferen-Geochemie: Anwendungen für Paläoumwelt-
Rekonstruktionen (1) **D. Nürnberg**
Anleitung zu selbständigen Arbeiten *Alle Dozenten*
Die Kreide Mitteleuropas (2) *J. Schönfeld*

Sedimentologie und Paläoozeanographie

- Forschergruppenseminar: Impact of Ocean Gateways on Ocean
Circulation, Climate, and Evolution (2) *J.M. Sarnthein-Lotichius,
W. Kuhnt, P. Schäfer,
J. Süling, D. Nürnberg*
Fonaminiferen-Geochemie: Anwendungen für Paläoumwelt-
Rekonstruktionen (1) **D. Nürnberg**

Teaching Courses

Seminar III a: Karbonatsedimentologie für Diplomanden und Doktoranden (2) **J. Reijmer, W.-Ch. Dullo**

Inerdisziplinäres Seminar: Modern and Past Global Biogeochemical Cycles

D.W.R. Wallace,
R. Schneider, **D. Nürnberg,**
M. Weinelt, H. Kinkel

Marine Umweltgeologie

Der marine Methankreislauf und sein Einfluss auf C- und H-Isotopien (2)

G. Rehder

Marine-Isotopen Systeme (3)

A. Eisenhauer

Radioaktive Ungleichgewichtsmethoden (2)

A. Eisenhauer

Einführung in die marine Geochemie II (2)

K. Wallmann

Literaturseminar: Marine Umweltgeologie (2)

A. Eisenhauer,
K. Wallmann, G. Rehder

Exkursionen

Geländepetrologische Übungen Ozeaninseln (Kanarische Inseln), 2-wöchig

H.-U. Schmincke

Geologie der Albula Querzone: Stratigraphie und Tektonik zwischen Unter- und Oberostalpin (2-wöchig)

W.-Ch. Dullo

Geophysik Hauptstudium

Allgemeine Geophysik

Continental Margins (3)

T.J. Reston, H. Kopp

Angewandte Geophysik

Projektübung Seismische Tomographie - Feldmessungen und Auswertungspraxis

I. Grevemeyer, H. Kopp

Seismic Stratigraphy and Interpretation (3)

T.J. Reston

Praktika, Seminare und Exkursionen

Geophysikalisches Praktikum für Fortgeschrittene (4)

Dozenten der Geophysik

Seminar: Aktuelle Forschungsthemen in der marinen Geodynamik (2)

T.J. Reston, H. Kopp

Mineralogie Hauptstudium

Petrologie - Geochemie

Magmatische Prozesse und Plattentektonik (2)

K. Hoernle

Isotopengeochemie und Altersbestimmung (2)

K. Hoernle, V. Schenk,
P. van den Bogaard

Physikalische Prozesse in der Vulkanologie (4)

A. Freundt

9. Acronyms

Acronyms

AABW	Antarctic Bottom Water
AAIW	Antarctic Intermediate Water
ACCE	Atlantic Climate Change Experiment
ACME	Advisory Committee for the Environment
ACSYS	Arctic Climate System Study
ADCP	Acoustic Doppler Current Profiler
AGU	American Geophysical Union
AMAM	Automated nutrient analysis
AMS	American Meteorological Society
AMSU	Advanced Microwave Sounding Unit
ANIMATE	Atlantic Network of Interdisciplinary Moorings and Timeseries for Europe
APEX	Autonomous Profiling Explorers
APG	Autonom Profilierenden Geräteträger - Tiefendriftern
APOLAS	Accurate areal Precipitation measurements Over LAnd and Sea
AQUAWEB	DFG Project (Comparison of marine and limnetic food webs)
ASFA	Aquatic Sciences and Fisheries Abstracts
ASLO	American Society of Limnology and Oceanography
AtlantNIRO	Atlantic Scientific Research Institute of Marine Fisheries and Oceanography, Russia, Kaliningrad, Russia
ATSAF	Arbeitsgruppe für tropische und subtropische Agrarforschung
AUV	Autonomous Underwater Vehicle
AVHRR	Advanced Very High Resolution Radiometer
AWI	Alfred Wegener Institut für Polar- und Meeresforschung, Bremerhaven
BAHC	Biospheric Aspects of the Hydrological Cycle (IGBP)
BALTEX	Baltic Sea Experiment
BASECOEX	Capelin and herring in the Barents Sea - coexistence or exclusion (Norway)
BASEWECS	BALTic SEa Water and Energy Cycle Study
BASIC	Baltic Sea cyanobacteria
BASYS	Baltic Sea System Study
BATS	Bermuda Atlantic Time series Study
BECAUSE	Critical Interactions BEtween Species and their Implications for a PreCAUTIONary FiSheries Management in a variable Environment
BEQUALM	Biological effects quality assurance in monitoring programmes
BfA	Bundesforschungsanstalt für Fischerei
BfN	Bundesamt für Naturschutz
BGR	Bundesanstalt für Geowissenschaften und Rohstoffe
BIO	Bedford Institute for Oceanography
BioCoMBE	The Impact of Biodiversity Changes in Coastal Marine Benthic Ecosystems
BMBF	Bundesministerium für Bildung und Forschung
BMVEL	Bundesministerium für Verbraucherschutz, Ernährung und Landwirtschaft
BSH	Bundesanstalt für Seeschifffahrt und Hydrographie
BSIOM	Baltic Sea Ice Ocean Model
BSR	Bottom-Simulating-Reflector
CACGP	Commission for Atmospheric Chemistry and Global Pollution
CANIGO	CANary Islands Azores Gibraltar Observations
CARINA	Carbon dioxide in the Atlantic Ocean
CAS	Commission on Atmospheric Sciences (WMO)
CAU	Christian-Albrechts-Universität zu Kiel
CAVA	Central American Volcanic Arc
CAVASSOO	Carbon variability studies by ships of opportunity
CCC	Cod and Climate Change
CCCC	Climate Change and Carrying Capacity
CDIAC	Carbon Dioxide Information Analysis Center, Oak Ridge, USA
CFCAS	Canadian Foundation for Climate and Atmospheric Sciences (CDN)
CEFAS	Centre for Environment, Fisheries and Aquaculture Science, Lowestoft, UK
CIESM	Commission internationale pour l'exploration scientifique de la mer Méditerranée, France
CIMAS	Cooperative Institute for Marine and Atmospheric Studies, Miami, USA
CIRAMOSA	Compilation of regional cirrus macro- and microphysical properties
CLiC	Climate and Cryosphere (WCRP)
CLIVAR	Climate Variability and Predictability Programme (WCRP)
CLIWA-Net	Cloud Liquid Water Network (BALTEX)
CMS	Commission on Moving Species
COADS	Comprehensive Ocean-Atmosphere Data Set
CoML	Census of Marine Life
COMWEB	Comparative analysis on coastal planktonic food webs
CORE	Cod recruitment in the Baltic (EU project)
CRIMP	Center of Research on Marine Introduced Pests (Australia)
CSIRO	Commonwealth Scientific & Industrial Research Organisation (Australia)
CTD	Conductivity-Temperature-Depth
DCESS	Danish Centre for Earth System Science

Acronyms

DEKLIM	BMBF Climate Research Programme
DFG	Deutsche Forschungsgemeinschaft
DGHM	Deutsche Gesellschaft für Hygiene und Mikrobiologie
DGL	Deutsche Gesellschaft für Limnologie
DGM	Deutsche Gesellschaft für Meeresforschung
DGP	Deutsche Gesellschaft für Protozoologie
DIFRES	Danish Institute for Fisheries Research, Lyngby, Denmark
DIGENIT	Diversität nitratreduzierender Bakterien (BMBF Project)
DLR	Deutsche Gesellschaft für Luft- und Raumfahrt
DMG	Deutsche Meteorologische Gesellschaft
DMS	Dimethyl sulphide
DMSP	dimethyl sulfonium propionate
DOMINOE	Dissolved organic matter as a component of ocean ecosystem and carbon cycle
DON	Dissolved organic nitrogen
DPG	Differential Pressure Gauge
DSOW	Denmark Strait Overflow Water
DWBC	Deep Western Boundary Current
DWD	Deutscher Wetterdienst
DWK	Deutsche Wissenschaftliche Kommission für Meeresforschung
DYNAMO	Dynamics of North Atlantic Models
EASIZ	Ecology of the Antarctic Sea Ice Zone
EAS	European Aquaculture Society
ECMWF	European Centre for Medium Range Weather Forecasts
ECOSIM	Ecosystem Simulation
EEA	European Elasmobranch Association
EGU	European Geosciences Union
EIFAC	European Inland Fisheries Advisory Commission
EISENEX	The second iron enrichment experiment
ELOISE	European Land Ocean Interaction Analysis
EMBS	European Marine Biology Symposium
ENBI	European Network of Biodiversity Information
ESONET	European Sea Floor Observatory Network
ESTOC	European Station for Time-Series in the Ocean Canary Islands
EU	European Union
EUAC	European Union of Aquarium Curators
EUC	Equatorial Undercurrent
EULIT	Effects of eutrophicated seawater on rocky shore ecosystems studied in large littoral mesocosms
EURASLIC	European Association of Aquatic Libraries and Information Centres
FB	Forschungsbereich
FLAME	Family of Linked Atlantic Model Experiments
FTZ	Forschungs- und Technologiezentrum der CAU, Büsum
GAME	Global Approach by Modular Experiments
GBB	Great Bahama Bank
GBIF	Global Biodiversity Information Facility
GCOS	Global Climate Observing System
GeoB	Institut für Geowissenschaften, Univ. Bremen
GEWEX	Global Energy and Water Cycle Experiment
GfÖ	Gesellschaft für Ökologie
GFZ	Geoforschungszentrum Potsdam
GHSZ	Gas Hydrate Stability Zone
GIF	German Israel Foundation
GITEWS	German-Indonesian Tsunami Early Warning System
GKSS	Gesellschaft für Kernenergieverwertung in Schiffbau und Schifffahrt (Forschungszentrum Geesthacht)
GLOBEC	Global Ocean Ecosystems Dynamics
GODAE	Global Ocean Data Assimilation Experiment
GOOS	Global Ocean Observing System
GPI	Geologisch-Paläontologisches Institut
GSF	Forschungszentrum für Umwelt und Gesundheit (BMBF Projektträger)
HELCOM	Helsinki Commission (Baltic Marine Environment Protection Commission)
HERSUR	Herring Survey Programme (EU)
HMW	high molecular weight
HYDROARC	Hydrothermale Prozesse an flach-marinen Vulkanen der Bransfield Strasse
HYFIFLUX	Hydrothermal fluid development, material balancing and special biological activity in the North Fiji Basin
IBM	Individual-based models
IABO	International Association for Biological Oceanography
IAMAP	International Association of Meteorology and Atmospheric Physics
IAPSO	International Association for the Physical Science of the Oceans
ICARP II	International Conference on Arctic Research Planning
ICBM	Institut für Chemie und Biologie des Meeres, Universität Oldenburg
ICBS	International Committee on Systematic Bacteriology
ICCM	Instituto Canario de Ciencias Marinas, Las Palmas, Spain

ICES	International Council for the Exploration of the Seas
ICHCA	International Cargo Handling Co-ordination Association
IEO	Instituto Español de Oceanografía
IfM	Institut für Meereskunde
IFREMER	Institut Français de Recherche pour l'Exploitation de la Mer, Brest, France
IGBP	International Geosphere-Biosphere Programme
IGOOS	IOC-WMO-UNEP Committee for GOOS
IHF	Institut für Hydrobiologie und Fischereiwissenschaft, Hamburg
IHLS	International Herring Larvae Survey (ICES)
IMO	International Maritime Organization
INTAS	International Association (of EU)
IOC	Intergovernmental Oceanographic Commission
IODP	Integrated Ocean Drilling Program
IOW	Institut für Ostseeforschung, Warnemünde
IPCC	Intergovernmental Panel on Climate Change
IPIMAR	Instituto de Investigação das Pescas e do Mar, Lisboa
IPRC	International Pacific Research Institute, Honolulu, USA
IRCCM	International Research Consortium for Continental Margins
IRONAGES	Iron Resources and Oceanic Nutrients- Advancement of Global Environment Simulations
ISCCP	International Satellite Cloud Climatology Project
IUB	International University Bremen
IUGG	International Union of Geodesy and Geophysics
JGOFS	Joint Global Ocean Flux Study
KAPEX	Cape of Good Hope Experiments
K.E.R.N.	Technologie Region: Kiel-Eckernförde-Rendsburg-Neumünster e.V.
KNMI	Koninklijk Nederlands Meteorologisch Instituut, de Bilt, The Netherlands
LATFRI	Latvian Fisheries Research Institute
LIFECO	Impact of frontal activities on fish recruitment in the North Sea (EU) project)
LIP	Large Igneous Provinces
LOICZ	Land Ocean Interactions in the Coastal Zone (IGBP component)
LSW	Labrador Sea Water
MACOM	Maternal effects on Atlantic cod recruitment and implications for management strategies (EU Project)
MAR	Mid Atlantic Ridge
MARBEF	Marine Biodiversity and Ecosystem Functioning EU Network of Excellence
MARE	Marine Artificial Recirculated Ecosystem
MAR-ECO	Project Patterns and Processes of the Ecosystem of the Northern Mid-Atlantic
MAST	Marine Science and Technology Programme (EU)
MATER	Mediterranean Targeted Project-Mass Transfer and Ecosystem Response
MOC	Meridional Overturning Circulation
MODIS	
MOVE	Meridional Overturning Variability Experiment
MPI	Max-Planck Institut für Meteorologie
MRI	Marine Research Institute, Reykjavik, Iceland
MUNF	Ministerium für Umwelt, Natur und Forsten
NAC	North Atlantic Current
NADW	North Atlantic Deep Water
NAFO	Northwest Atlantic Fisheries Organization
NAO	North Atlantic Oscillation
NATO	North Atlantic Treaty Organization
NBUC	North Brazil Undercurrent
NCAR	National Center for Atmospheric Research, Boulder, USA
NCEP	National Center for Environmental Prediction (NOAA)
NERC	National Environmental Research Council
NIOZ	Royal Netherlands Institute for Sea Research, The Netherlands
NOAA	National Ocean Atmosphere Administration
NOC	National Oceanography Centre, Southampton, UK
NOCES	Northern Ocean-Atmosphere Carbon Exchange Study
NOPEX	Northern Hemisphere Climate-Processes Land-Surface Experiment (BAHC comp.)
NSERC	National Science and Engineering Research Council (CDN)
NSF	National Science Foundation (US)
OBH	Ocean Bottom Hydrophones
OBIS	Ocean Biogeographic Information System
OBS	Ocean-Bottom-Seismometers
OBU	Ocean-Bottom-Unit
OCTOPUS	Ocean Tomography Operational Package and Utilization Support
ODP	Ocean Drilling Program
OMEX	Ocean Margin Exchange
OPAC	Online Public Access Catalogue
ORNL	Oak Ridge National Laboratory, Oak Ridge, USA
OPRAN	Surface Ocean Processes in the Anthropocene
OSPAR	Convention for the Protection of the Marine Environment of the North-East Atlantic (Oslo-Paris)

Acronyms

QUEEN	Quaternary Environment of the Eurasian North, PAGES component
PAH	Polycyclic Aromatic Hydrocarbons
PARS	Precision and accuracy of tools in recruitment studies (Eu-Project)
PDF	Probability Density Function
PEP	Pilot Study of Evaporation and Precipitation (BALTEX)
PESCA	Fisheries Programme (EU)
PCB	Polychlorinated biphenyl
PCR	Polymerasekettenreaktion
PIK	Potsdam Institute für Klimafolgenforschung, Potsdam
PJTT	Paleo-JGOFS Task Team
POC	Particulate Organic Carbon
POGO	Partnership for Observations of the Global Oceans
POLMARF	Polish Marine Fishery Science Center
PON	Particulate Organic Nitrogen
PR	Public Relations
PTJ	Projekträger Jülich (BMBF)
RAFOS	Profiling Float
RD	Research Division
RECONN	Resolving Trophodynamic Consequences of Climate Change
RIVO	Nederlands Instituut voor Visserijonderzoek, IJmuiden, The Netherlands
ROV	Remotely Operated Vehicle
RSMAS	Rosenstiel School of Marine and Atmospheric Sciences, Miami, USA
RSP	Red Sea Programme
SAB	Scientific Advisory Board
SAP	Sustainable Fisheries: Assessment and Prediction (EU project)
SCAR	Scientific Committee on Antarctic Research
SCOR	Scientific Committee on Oceanic Research
SDN	Schutzgemeinschaft Deutsche Nordseeküste
SETAC	Society of Environmental Toxicology and Chemistry
SFB	Sonderforschungsbereich
SIL	Societas Internationalis Limnologiae
SimCoast	Interdisciplinary methodologies for the sustainable use and management coastal resource systems: EU and ASEAN Coastal transect applications (EU Project)
SIO	Scripps Institution of Oceanography, La Jolla, USA
SMHI	Swedish Meteorological and Hydrological Institute
SOC	Southampton Oceanography Centre, UK
SOIREE	Southern Ocean Iron RElease Experiment
SOLAS	Surface Ocean Lower Atmosphere Study
SOMARE	Sampling, Observations & Modelling of Atlantic Regional Ecosystems
SPACC	Small Pelagic Fishes and Climate Changes
SGMSNS	Study Group on Multispecies Assessments in the North Sea
SPP	Special Priority Program (DFG)
SSB	spawning stock biomass
STC	Shallow Subtropical Cell
STORE	Fish stock recruitment in the Baltic (EU project)
SV	Sverdrup ($10^6 \text{ km}^3/\text{s}$)
TAR	Third Assessment Report (IPCC)
TAV	Tropical Atlantic Variability
TEWS	Tsunamis Early Warning System
TLC / TLZ	Technology and Logistic Center (Technik- und Logistik Zentrum)
TOPP	Tagging of Pacific Pelagics
TTO	Transient Tracers in the Ocean
UBA	Umweltbundesamt
VAAM	Vereinigung für Allgemeine und Angewandte Mikrobiologie e.V.
VOS	Voluntary Observing Ships
VW	Volkswagen
WCRP	World Climate Research Programme
WDC-MARE	World Data Center for Marine Environmental Data
WGL	Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz
WGEIM	Working Group on Environmental Interactions of Aquaculture
WGNE	Working Group on Numerical Experimentation
WGOMD	Working Group on Ocean Modelling Development
WHOI	Woods Hole Oceanographic Institution, Woods Hole, USA
WMO	World Meteorological Organization
WOCE	World Ocean Circulation Experiment
WTZ	Wissenschaftl.-Technische Zusammenarbeit (BMBF)
ZMK	Zentrum für Meeres- und Klimaforschung der Universität Hamburg
XBT	Expendable Bathythermograph