



IFM-GEOMAR

**IFM-GEOMAR
Annual Report 2009
Appendices**

From the Seafloor to the Atmosphere

- Marine Sciences at IFM-GEOMAR Kiel -

IFM-GEOMAR Report 2009 - Appendices

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Cover: Autonomous Underwater Vehicle ABYSS (ABYSS Team, IFM-GEOMAR).
Table of Contents: RV METEOR under rough conditions (A. Körtzinger, (IFM-GEOMAR)).

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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.**

IFM-GEOMAR has identified four overarching research themes:

- Role of the Ocean in Climate Change
- Human Impact on Marine Ecosystems
- Living and Non-Living Marine Resources
- Plate Tectonic Processes and Geological Hazards.

The 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 2009, IFM-GEOMAR had about 753 employees, including 397 scientists and 368 service and technical staff (incl. student assistance). About 291 scientists and 180 service and technical staff were funded through research grants.

The Leibniz Institute of Marine Sciences is associated with the University of Kiel through a cooperation agreement 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 inter-disciplinary 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, Inter-ridge, 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 2008, DFG is funding SFB 754 on "Biogeochemistry Interactions in the Tropical Ocean". 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.

In 2006, IFM-GEOMAR together with six faculties of the University of Kiel, the Institute for the World Economics and the Muthesius School of Arts received funding in the order of 36 Mio. Euros for an Excellence Cluster "Future Ocean". Within IFM-GEOMAR four new junior research groups of the cluster were established that contribute substantially to a number of projects of the cluster.

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 (Wis-

senschaftsgemeinschaft Gottfried Wilhelm Leibniz (WGL)), the Konsortium Deutsche Meeresforschung (KDM), the European Marine Board of the European Science Foundation and the Partnership for Observation of the Global Oceans (POGO).

1.2 Organizational Structure (31.12.2009)

See also diagram on page 4

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. J.H. Behrmann (RD4)

Guests:

- Prof. Dr. M. Visbeck, Deputy Director & Chair Excellence Cluster "The Future Ocean"
- Prof. Dr. C. Devey, Deputy Director
- Prof. Dr. K. Hoernle, Chair SFB 574
- Prof. Dr. D. Wallace, Chair SFB 754
- Prof. Dr. M. Frank, Chair, Scientific Council
- Mrs. U. Frank-Scholz, Head of Administration
- Dr. N. Schmidt, Central Affairs
- Dr. A. Villwock, Public Relations

2. Board of Governors

- **Dr. Cornelia Andreßen, Secretary of State, Ministry for Science, Economy and Transportation of the State of Schleswig-Holstein, Kiel (Chair)**
- MinR. R. Ollig, Federal Ministry for Education and Research, Bonn
- Prof. Dr. G. Fouquet, President, Christian-Albrechts-University, Kiel
- Prof. Dr. L. Kipp, Dean of the Faculty for Mathematics and Natural Sciences, Christian-Albrechts-University, Kiel

- Prof. Dr. J. Marotzke, Chair, Scientific Advisory Board
- Prof. Dr. K. Lochte, Director, Alfred-Wegener-Institute for Polar and Marine Research, Bremerhaven
- Dr. P. Murmann, Zöllner Signal GmbH, Kiel

Guests with consulting status:

- Dr. I. Hennings, Representative of the Scientific Staff (staff council)
- Mrs. B. Domeyer, Representative of the Non-scientific Staff (staff council)
- Mrs. B. Schmidt, Representative for Equal Rights
- Dr. W.D. Glanz, Ministry for Trade, Commerce, and Transportation of the State of Schleswig-Holstein
- Mr. M. Wagner, Ministry for Trade, Commerce, and Transportation of the State of Schleswig-Holstein
- Mrs. K. Pieper, Ministry for Trade, Commerce, and Transportation of the State of Schleswig-Holstein
- Prof. Dr. P.M. Herzig, Director of IFM-GEOMAR
- Prof. Dr. M. Visbeck, Deputy Director of IFM-GEOMAR
- Prof. Dr. C. Devey, Deputy Director of IFM-GEOMAR
- Prof. Dr. M. Frank, Chair, Scientific Council

Other guests:

- Dr. J. Biel, Managing Director, IHK Kiel
- Mrs. U. Frank-Scholz, Head of Administration, IFM-GEOMAR
- Dr. N. Schmidt, Central Affairs, IFM-GEOMAR
- Mrs. I. Schultheiß, Legal Affairs
- Dr. A. Villwock, Public Relations, IFM-GEOMAR

3. Scientific Advisory Board

- **Prof. Dr. J. Marotzke, Max-Planck-Institute for Meteorology, Hamburg (Chair)**
- 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. E. Hill, National Oceanography Centre, Southampton, UK
- Prof. Dr. S. Humphris, Woods Hole Oceanographic Institution, USA
- Prof. Dr. Jack Middelburg, Utrecht University, Utrecht, The Netherlands
- Prof. Dr. Tim A. Minshull, National Oceanography Centre, Southampton, UK
- Prof. Dr. A.C. Mix, College of Oceanic & Atmospheric Sciences, Oregon State University, Corvallis, USA
- Prof. Dr. Jeanine Olsen, Universit t Groningen, Groningen, The Netherlands
- 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. D. Turner, Chalmers tekniska h gskola, G teborg, Sweden

4. Scientific Council

Members (Member / Deputy Member):
Prof. Dr. M. Frank (Chair) / Prof. Dr. M. Wahl (Deputy Chair).

a. Professors:

- M. Frank / W.-C. Dullo
- A. Macke / M. Latif
- M. Visbeck / P. Brandt
- C. B ning / R. Greatbatch
- A. Eisenhauer / K. Wallmann
- A. K rtzinger / D. Wallace
- U. Riebesell / N.N.
- A. Oschlies / D. Wallace
- J. Imhoff / T. Reusch
- M. Wahl / U. Sommer
- K. Hoernle / C. Devey
- J. Behrmann / C. Berndt

b. Assistant Professors and Scientists with "Habilitation":

- FB1 D. Dommengeset / K. Kr ger
- FB2 J. LaRoche / H. Bange
- FB3 F. Sommer / R. Hanel
- FB4 E. Fl h / A. Freundt

c. Scientific staff:

- FB1: T. Martin / J. Karstensen
- FB2: K. v. Br ckel / P. Linke
- FB3: U. Piatkowski / J. Schmidt
- FB4: P. van den Bogaard / W. Weinrebe



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

Board of Governors (Stiftungsrat)
Chair: Dr. Cordelia Andriessen
Ministry of Science, Economy, and
Transportation of the State of Schleswig-Holstein

Directorate
Prof. Dr. Peter M. Herzig (Director)
(Ext.: 2880)
Vice Directors:
Prof. Dr. Gail W. Devey (Ext.: 2257)
Prof. Dr. Martin Vaseck (Ext.: 4100)
+ Chairs of Research Divisions
Head of Administration: U. Frank-Schäfer (Ext.: 2500)

Scientific Advisory Board
Chair: Prof. Dr. Jørgen Mørchze

Directorate

- Central Affairs**
Dr. Nicole Schmidt (Ext.: 2803)
- Legal Affairs**
Ina Schultheiß (Ext.: 2866)
- Public Relations**
Dr. Andreas Villwock (Ext.: 2802)

Internal Scientific Council
Prof. Dr. Martin Frank (Ext.: 2218)

Ombudsperson
Prof. Dr. Wolf-Christian Düllo
(Ext.: 2215)

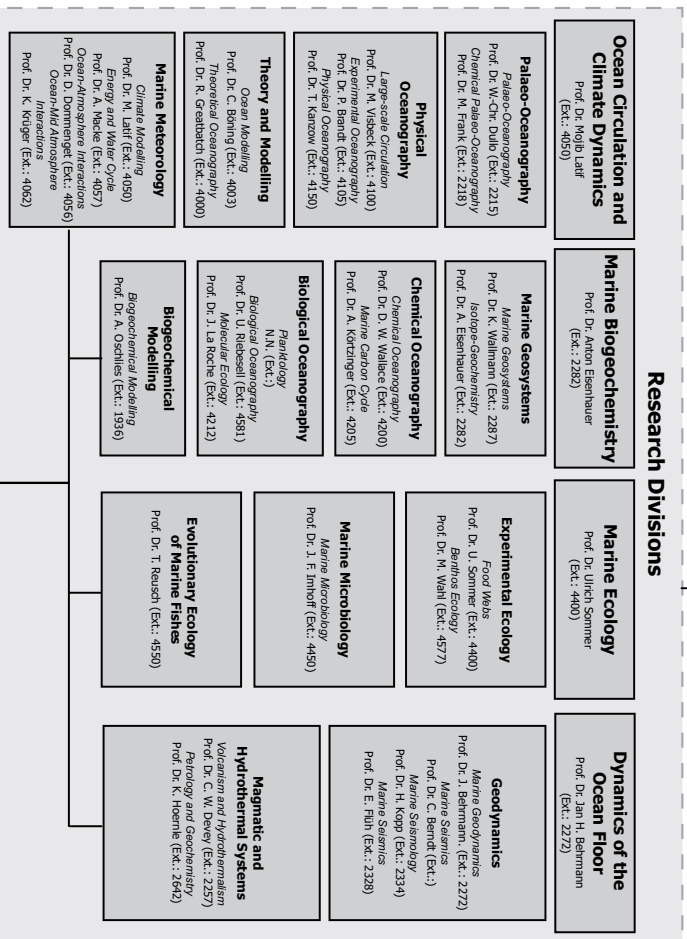
Staff Council
Peter Wehmann (Ext.: 2816)

Equal Rights Representative
Barbara Schmidt (Ext.: 1599)

Representative of Persons with Disabilities
Mario L. Müller (Ext.: 2289)

Safety Adviser
Dieter Schmitz (Ext.: 2750)

Data Protection Official
Gerhard Schwick (Ext.: 2526)



Central Facilities

- Administration**
Head
U. Frank-Schäfer (Ext.: 2500)
Controlling
G. Schwick (Ext.: 2526)
Finance
U. Frank-Schäfer (Ext.: 2500)
Personnel
J. Peters (Ext.: 2510)
Facility Management
J. Rahn (Ext.: 2528)
Purchase
H. Vogt (Ext.: 1522)
- Technical Services**
F. Hüb (Ext.: 2700)
- Aquarium & Seals Pool**
Prof. Dr. T. Reusch (Scientific Head)
(Tel.: 4650)
M. Gruber (Tech. Head) (Tel.: 1630)
- Library**
B. Schmidt (Ext.: 1599)
A. Finke (Ext.: 2505)
- Computing Centre**
Dr. A. Lehmann (Ext.: 1566)
Dr. W. Wenneke (Ext.: 2281)
- Research Vessels**
Dr. T. J. Müller (Ext.: 4161)
Dr. K. V. Bockel (Ext.: 4259)
- Technology & Logistics Centre**
Dr. O. Pfannkuche (Scientific Head)
(Tel.: 2113)
U. Lenz (Technical Head) (Ext.: 1800)
- Sample Repository**
Dr. O. Pfannkuche (Ext.: 2113)

Applied R & D Projects

- Energy- and CO₂-Sequestration Technologies**
Chair: Dr. Werner Budziam (Ext.: 2819)
Prof. Dr. Klaus Wallmann (Ext.: 2287)
- Centre for Marine Substances Research (KIMWZ)**
Chair: Prof. Dr. Johannes F. Imhoff (Ext.: 4150)
- Marine Aquaculture (Nemo)**
Chair: Dr. Carina Giesen-Bockelmann (Ext.: 4558)

Large-scale Research Projects

- Excellence Cluster "Future Ocean"**
Chair: Prof. Dr. Martin Vaseck (Ext.: 4100)
Group at IFM-GEOMAR:
Ocean Acidification
Prof. Dr. F. Wenzler (Ext.: 4274)
Sealifer Warming
Prof. Dr. T. Treude (Ext.: 2897)
Sealifer Resources
Prof. Dr. L. Ripke (2845)
Submarine Hazards at Continental Margins
Prof. Dr. S. Kasten-Gundogast (Ext.: 2841)
- Collaborative Research Centre SFB 574: Volatiles and Fluids in Subduction Zones**
Chair: Prof. Dr. Kai Hoernle (Ext.: 2642)
- Collaborative Research Centre SFB 754: Climate - Biogeochemical Interactions in Tropical Oceans**
Chair: Prof. Dr. Douglas Wallace (Ext.: 4200)

Statistics:
December 2009

Appendices

2. Human Resources

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 31.12.2009] -			
	Total number <small>2), 3)</small>	Number financed by	
		institutional resources ²⁾	third-party resources ²⁾
Total (incl. student assistants)	568.6	240.4	328.2
1. Academic and higher management staff	215.9	95.8	120.1
- W2 .. W3, C3 .. C4, SDV	22.0	22.0	0.0
- W1, C1 .. C2	4.0	4.0	0.0
- I / A16 / E15Ü	1.0	1.0	0.0
- Ia / A15 / E15	7.5	5.0	2.5
- Ib / A14 / E14	46.0	34.5	11.5
- IIa / III ⁴⁾ / A13 / E13..E13Ü	135.4	29.3	106.1
2. Doctoral candidates	78.8	1.0	77.8
3. Other staff	183.7	131.4	52.3
- IV..III/A10..A12/E10..E12	36.6	26.8	9.8
- V / A8 .. A9 / E8 .. E9	82.3	57.6	24.7
- VI / A7 / E7	3.0	3.0	0.0
- VIII..VII / A5..A6 / E5..E6	44.3	27.5	16.8
- Wage brackets, other staff	10.5	9.5	1.0
- Trainees	7.0	7.0	0.0
4. Student assistance	90.2	12.2	78.1

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 4.2

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 31.12.2009] -

Employment positions	Total	Academic and higher management staff ¹	Doctoral candidates²	Other staff, trainees	Student assistance
Entire establishment	568.6	215.9	78.8	183.7	90.2
Research Division 1	121.3	59.0	19.0	22.7	20.5
Research Division 2	139.1	55.0	28.8	27.3	28.0
Research Division 3	86.7	34.1	18.0	22.5	12.0
Research Division 4	72.5	34.7	11.0	11.8	15.0
Interdisciplinary Project Groups	0.5	0,0	0.5	0,0	0,0
Energy Projects & Director	59.7	25.8	1.5	24.4	8.0
Central Facilities (without administration)	53.1	7.3	0,0	39.1	6.7
Administration	35.8	0,0	0,0	35.8	0,0

¹) Employment positions acc. to BAT IIa / TVL13 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 as of [reporting date 31.12.2009]

	Total number	Financed by third-party resources		Temporary contracts		Women		Women with temporary contracts	
		Number	% ¹⁾	Number	% ¹⁾	Number	% ¹⁾	Number	% ^{1),2)}
Total	753	471	63 %	574	73,0%	359	48,0%	282	75,2%
1. Academic and higher management staff	239	137	57 %	163	68,0%	84	35,0%	76	89,0%
- W2 .. W3, C3 .. C4, SDV	22	0	0,0%	1	5,0%	0	0,0%	0	0,0%
- W1, C1 .. C2	4	0	0,0%	4	100,0%	2	50,0%	2	100,0%
- I / A16 / E15Ü	1	0	0,0%	0	0,0%	0	0,0%	0	0,0%
- Ia / A15 / E15	8	2	25,0%	1	13,0%	2	25,0%	0	0,0%
- Ib / A14 / E14	47	9	19,0%	11	23,0%	6	13,0%	1	16,7%
- IIa / III / A13 / E13 .. E13Ü	157	126	80,0%	146	93,0%	74	47,0%	73	98,4%
2. Doctoral candidates	158	154	99,0%	156	100,0%	78	50,0%	78	100,0%
3. Other staff	210	56	27,0%	80	38,0%	112	53,0%	43	38,2%
- IV..III / A10..A12 / E10..E12	37	10	27,0%	12	32,0%	6	14,0%	2	50,0%
- V / A8 .. A9 / E8 .. E9	99	27	27,0%	30	30,0%	67	68,0%	21	31,2%
- VI / A7 / E7	3	0	0,0%	0	0,0%	0	0,0%	0	0,0%
- VIII .. VII / A5 .. A6 / E5 .. E6	51	18	35,0%	25	49,0%	32	63,0%	15	41,9%
- Wage groups, other staff	13	1	8,0%	6	46,0%	5	38,0%	2	57,1%
- Trainees	7	0	0,0%	7	100,0%	3	43,0%	3	100,0%
4. Student Assistants	148	124	84,0%	148	100,0%	85	57,0%	85	100,0%

¹⁾ Correct to one decimal place only

²⁾ Women with temporary contracts / number of women

Table 2.4

Academic and higher management staff, age structure (in persons)

	Total		< 30		30 -39		40 -49		50 -59		> 59	
	Total	Women	Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
Entire establishment	239	84	30	12	86	42	74	23	44	7	5	0
Research Division 1	66	19	9	5	23	7	20	4	14	3	0	0
Research Division 2	63	24	9	4	22	11	21	7	9	2	2	0
Research Division 3	39	21	3	1	15	12	10	6	10	2	1	0
Research Division 4	37	8	4	0	12	7	13	1	7	0	1	0
Interdisciplinary Project Groups	0	0	0	0	0	0	0	0	0	0	0	0
Energy Projects & Director	28	11	4	2	14	5	8	4	2	0	0	0
Central Facilities (without Admin.)	6	1	1	0	0	0	2	1	2	0	1	0
Administration	0	0	0	0	0	0	0	0	0	0	0	0

3. Budgets & Projects

3.1 Budget Tables

Table 3.1: Revenues and expenditures (in € 1,000)					
	2009	2008	2007	2006	2005
Revenues					
Total	59,306.7	57,289.8	49,610.2	46,874.0	44,585.3
1. Institutional support *	32,654.5	28,527.9	28,198.6	30,746.0	28,078.7
- German "Länder"	16,920.3	15,138.0	15,632.4	14,731.8	14,217.7
- Federal Government	15,734.2	12,849.9	12,566.2	12,314.2	11,868.0
- Other institutional support	0.0	540.0	0.0	3,700.0	1,993.0
<i>Proportion of institutional support in overall financial resources (in %)</i>	<i>55.1%</i>	<i>49.8%</i>	<i>56.8%</i>	<i>65.6%</i>	<i>63.0%</i>
2. Third-party resources	26,652.2	28,761.9	21,411.6	16,128.0	16,506.6
2.1 Research support	19,034.5	17,410.0	16,821.7	13,824.0	14,549.1
- DFG (German Research Foundation)	7,098.7	4,712.5	6,409.0	2,952.0	2,367.2
- DFG-SFB 574 and 754	3,785.2	2,948.9	1,439.0	3,244.5	2,615.8
- Federal Government	6,380.8	5,877.8	5,539.4	4,599.5	5,228.3
- German "Länder"	311.3	418.5	1,499.1	1,307.3	840.6
- EU project funding	1,362.4	3,266.4	1,692.8	1,620.5	3,397.0
- Foundations. other research support	96.1	185.9	242.4	100.2	100.2
- Joint projects with the University of Kiel	0.0	0.0	0.0	0.0	0.0
2.2 Services, contracts, licences, publications	5,721.8	9,441.6	3,098.0	1,098.4	844.2
- Contracts from private enterprises or public authorities. cooperation with industry	5,719.9	9,440.3	3,098.0	1,098.4	844.2
- Patent exploitation. licences	0.0	0.0	0.0	0.0	0.0
- Publications	0.0	0.0	0.0	0.0	0.0
- Other services	1.9	1.3	0.0	0.0	0.0

*) 2009 incl. Konjunkturprogramm
continued on next page.

Table 3.1: Revenues and expenditures (continued)

(in € 1,000)

	2009	2008	2007	2006	2005
2.3 Other third-party resources	1,895.9	1,910.3	1,491.9	1,205.6	1,113.3
- Aquarium	147.7	126.1	90.0	71.7	70.4
- Charter for submersibles	0.0	0.0	47.8	44.1	48.7
- Misc, income (interest. etc.)	30.8	71.8	0.7	1.1	0.3
- Rentals	0.0	0.0	1,350.5	1,036.1	991.0
- Charter for research vessels	1,714.8	1,691.0	0.0	51.4	0.0
- Charter for submersibles	0.0	0.0	0.0	0.0	0.0
- Sale of vehicles	2.6	0.0	0.0	0.0	2.9
- Other sales	0.0	21.4	2.9	1.2	0.0
<i>Proportion of third-party funding in overall financial resources (in %)</i>	<i>44.9%</i>	<i>50.2%</i>	<i>43.2%</i>	<i>34.4%</i>	<i>37.0%</i>
3. Withdrawal from reserves and the like	0.0	0.0	0.0	0.0	0.0
Expenditures	59,114.6	52,739.7	48,096.8	45,148.2	41,173.0
4.1 Personnel	27,663.2	23,201.3	19,903.1	18,291.7	17,715.6
4.2 Materials, supplies, equipment	23,413.5	20,875.4	18,062.9	16,321.3	17,151.1
4.3 Investments (not incl. building investments)	5,302.1	6,522.0	7,757.3	6,322.7	3,315.0
4.4 Building investments	2,027.9	1,210.9	934.5	968.0	375.5
4.5 Special Positions (where applicable)	707.9	930.1	0.0	0.0	0.0
4.6 Allocations to reserves and the like	0.0	0.0	0.0	0.0	0.0
4.7 DFG-SFB 574 and 754	0.0	0.0	1,439.0	3,244.5	2,615.8
4.8 Joint Projects with the University of Kiel	0.0	0.0	0.0	0.0	0.0
4.9 For information only: DFG charges	632.3	611.5	600.8	588.2	565.9

Table 3.2: Project Funding					
(Revenues in € 1,000)					
	2009	2008	2007	2006	2005
Total	26,652.2	28,761.9	21,411.6	16,128.0	16,506.6
- DFG (German Research Foundation)	7,098.7	4,712.5	6,409.0	2,952.0	2,367.2
- DFG-SFB 574 and 754	3,785.2	2,948.9	1,439.0	3,244.5	2,615.8
- Federal Government	6,380.8	5,877.8	5,539.4	4,599.5	5,228.3
- German "Länder"	311.3	418.5	1,499.1	1,307.3	840.6
- EU project funding	1,362.4	3,266.4	1,692.8	1,620.5	3,397.0
- Foundations, other research support	96.1	185.9	242.4	100.2	100.2
- Joint projects with the University of Kiel	0.0	0.0	0.0	0.0	0.0
- Services, contracts, licences, publications	5,721.8	9,441.6	3,098.0	1,098.4	844.2
- Other third-party resources	1,895.9	1,910.3	1,491.9	1,205.6	1,113.3
RD 1: Ocean Circulation and Climate Dynamics	6,392.1	3,855.3	3,769.9	2,937.7	3,948.9
- DFG (German Research Foundation)	2,282.0	992.5	1,687.9	621.3	749.1
- DFG-SFB 574 and 754	1,351.8	85.9	71.5	1,702.6	968.3
- Federal Government	2,140.0	1,883.0	1715.9	353.2	995.2
- German "Länder"	0.0	0.0	0.0	0.0	0.0
- EU project funding	486.2	726.7	202.1	72.3	1,062.0
- Foundations, other research support	0.0	26.5	7.4	0.0	0.0
- Joint projects with the University of Kiel	0.0	0.0	0.0	0.0	0.0
- Services, contracts, licences, publications	132.1	140.7	85.1	188.3	174.3
- Other third-party resources	0.0	0.0	0.0	0.0	0.0

continued on next page.

Table 3.2: Project Funding (continued)

- classified by organisational unit -

(Revenues in € 1,000)

	2009	2008	2007	2006	2005
RD 2: Marine Biogeochemistry	6,261.3	6,897.5	4,027.3	3,270.0	3,337.7
- DFG (German Research Foundation)	1,628.8	1,570.5	1,648.1	529.7	610.3
- DFG-SFB 574 and 754	869.4	2,164.7	276.9	380.2	422.1
- Federal Government	2,808.8	1,938.0	1,756.1	1,127.9	1,039.4
- German "Länder"	-3.4	96.7	0.0	29.8	0.0
- EU project funding	940.0	1,025.7	244.0	1,038.6	1,162.4
- Foundations, other research support	2.4	0.0	0.0	0.6	0.6
- Joint projects with the University of Kiel	0.0	0.0	0.0	0.0	0.0
- Services, contracts, licences, publications	15.3	101.9	102.2	163.2	102.9
- Other third-party resources	0.0	0.0	0.0	0.0	0.0
RD 3: Marine Ecology	2,885.9	4,140.2	3,754.7	2,628.5	3,121.1
- DFG (German Research Foundation)	479.0	512.2	555.6	217.0	359.1
- DFG-SFB 574 and 754	60.5	2.5	0.0	0.0	0.0
- Federal Government	124.3	127.9	403.1	773.1	596.0
- German "Länder"	296.5	288.5	1,479.0	1,204.0	834.7
- EU project funding	-154.8	1,188.1	836.3	99.5	931.0
- Foundations, other research support	51.7	153.1	236.6	99.6	99.6
- Joint projects with the University of Kiel	0.0	0.0	0.0	0.0	0.0
- Services, contracts, licences, publications	2,028.7	1,867.9	244.1	235.3	300.7
- Other third-party resources	0.0	0.0	0.0	0.0	0.0

Table 3.2: Project Funding (continued)

- classified by organisational unit -

(Revenues in € 1,000)

	2009	2008	2007	2006	2005
RD 4: Dynamics of the Ocean Floor	4,511.9	4,288.1	5,501.0	5,570.3	4,776.7
- DFG (German Research Foundation)	1,884.9	1,373.0	2,306.4	1,385.4	541.2
- DFG-SFB 574 and 754	965.6	593.1	1,090.6	1,161.7	1,225.4
- Federal Government	1,288.4	1,691.7	1,362.8	2,218.6	2,549.7
- German "Länder"	-1.8	33.3	20.1	73.5	0.0
- EU project funding	91.0	211.4	410.4	410.1	241.6
- Foundations, other research support	7.3	0.0	-1.6	0.0	0.0
- Joint projects with the University of Kiel	0.0	0.0	0.0	0.0	0.0
- Services, contracts, licences, publications	276.5	385.6	312.3	321.0	218.8
- Other third-party resources	0.0	0.0	0.0	0.0	0.0
Central Facilities	6,601.0	9,580.8	4,358.7	1,721.5	1,322.2
- DFG (German Research Foundation)	824.0	264.3	211.0	198.6	107.5
- DFG-SFB 574 and 754	537.9	102.7	0.0	0.0	0.0
- Federal Government	19.3	237.2	301.5	126.7	48.0
- German "Länder"	20.0	0.0	0.0	0.0	5.9
- EU project funding	0.0	114.5	0.0	0.0	0.0
- Foundations, other research support	34.7	6.3	0.0	0.0	0.0
- Joint projects with the University of Kiel	0.0	0.0	0.0	0.0	0.0
- Services, contracts, licences, publications	3,269.2	6,945.5	2,354.3	190.6	47.5
- Other third-party resources	1,895.9	1,910.3	1,491.9	1,205.6	1,113.3

Appendices

3.2 Projects

Projects - Research Division 1: Ocean Circulation and Climate Dynamics

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
1	BO 907/2-2, Agulhas-system 2	Numerische Ozeanmodellierung zur Untersuchung der Rolle des Agulhasystems für die Dynamik niederfrequenter Schwankungen der großräumigen Strömungen im Atlantik	DFG	Prof. Böning	01.07.2008 - 30.06.2009	60.350,00
2	CLUSTER-2007/2CP07A47 / Glider Swarm /30	CLUSTER - Glider Swarm Pilot Project	DFG	Dr. Karstensen	01.02.2008 - 31.03.2010	33.550,00
3	CLUSTER- 2008/1 CP0801 Baltic Sea/66	Foraminiferal shell loss in the Flensburg Fjord (SW Baltic Sea). Living benthic communities under the risk due to acidification	DFG	Dr. Schönfeld	01.01.2009 - 31.12.2010	50.000,00
4	CLUSTER -Datenmanagerin Pina Springer /61	Einstellung Datenmanagerin: Pina Springer	DFG	Prof. Visbeck	15.10.2008 - 30.10.2011	178.850,00
5	CLUSTER -Greenhouse World/17 0725CP	Changing habitats of calcareous plankton in the Greenhouse World - Clusterproposal 2007/1	DFG	Dr. Schönfeld	01.09.2007 - 31.08.2009	92.300,00
6	CLUSTER Overhead-Sprecher	Cluster Overhead Sprecher	DFG	Prof. Visbeck	01.01.2007 - 31.10.2011	906.750,00
7	CLUSTER-2008/1 CP08189 Baltic Sea Area 1970-2008	Detailed assessment of climate variability of Baltic Sea area for the period 1970-2008	DFG	Dr. Lehmann	01.01.2009 - 31.12.2010	50.000,00
8	CLUSTER-2009/1 CP0938 Glider fleet /79	Glider fleet to observe sub-mesoscale physical-biogeochemical coupling in the tropical ocean	DFG	Prof. Kanzow	01.11.2009 - 30.06.2011	100.000,00
9	CLUSTER-Referentin Clustersprecher /31	CLUSTER: Referentin Clustersprecher	DFG	Prof. Visbeck	01.03.2008 - 31.12.2009	122.000,00
10	De 1369/1-1, DFG-Nachwuchsgruppe	Antrag im Rahmen des Emmy Noether-Programms: Diapyknische Vermischungsprozesse in den Auftriebsgebieten des tropischen Atlantiks.	DFG	Dr. Dengler	01.08.2008 - 31.07.2011	368.680,00
11	DO 1038/2-1, Wechselwirkung tropischer Ozeane	Wechselwirkung des tropischen Indischen Ozeans und des tropischen Atlantischen Ozeans mit ENSO	DFG	Prof. Dommenget	30.01.2007 - 28.02.2010	92.730,00
12	DO 1038/5-1 Atmosph. Zirkulation im Klimawandel	Moden der nördlichen atmosphärischen Zirkulation im Rahmen des Klimawandels	DFG	Prof. Dommenget	01.09.2009 - 31.08.2012	111.045,00
13	Du 129/33-1, Leibniz Preis Dullo	Leibniz Preis	DFG	Prof. Dullo	30.06.2002 - 20.01.2010	1.550.000,00

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
14	DU 129/41-1 CHECREEF	The last deglacial sea-level and climatic changes. Coral Reef records in the south Pacific: Tahiti (French Polynesia) - IOPD- Expedition #310-, Australian Great Barrier Reef - IODP Proposal #519	DFG	Prof. Dullo	01.10.2007 - 30.09.2010	114.000,00
15	DU 129/45-1, Isolde	Isotope Signature of calcareous Organisms from upper and lower carbonate mound sediments	DFG	Prof. Dullo	01.08.2007 - 31.07.2009	92.470,00
16	Fi 871/2-1	Variability of the near bottom hydrography, currents and mixing processes in the Logatchev-Field	DFG	Dr. Fischer	01.11.2007 - 31.10.2009	183.180,00
17	FR 1198/2-1, Weathering and water mass mixing	Tracing continental weathering and water mass mixing in the Atlantic sector of the Southern Ocean with neodymium and hafnium isotopes	DFG	Prof. Frank	01.08.2007 - 31.07.2009	79.800,00
18	FR 1198/2-2, Weathering and water mass mixing	Tracing continental weathering and water mass mixing in the Atlantic sector of the Southern Ocean with neodymium and hafnium isotopes	DFG	Prof. Frank	01.10.2009 - 30.09.2010	40.220,00
19	FR 1198/4-1, MOW	Variability of the Mediterranean Outflow glacial-interglacial and millennial time scales	DFG	Prof. Frank	01.08.2007 - 31.07.2010	132.700,00
20	HA 5938/1-1, Arctic-Atlantic X-Change	Orbital variability and high latitude circulation and climate change during the Pliocene-Pleistocene	DFG	Prof. Frank	01.09.2009 - 31.08.2011	86.550,00
21	Ind. Gateway	Bearbeitung von Analysen im Rahmen der Sachbeihilfe	DFG	Dr. Nürnberg	01.01.2008 - 31.07.2009	9.000,00
22	KE 1471/2-1, Emmy Noether Programm	Mechanism and predictability of North Atlantic Decadal Climate variability	DFG	Dr. Keenlyside	01.01.2008 - 31.12.2012	926.950,00
23	KR 3488/1-1 Ocean Mixing observed	Ocean mixing observed with seismic oceanography and hydrographic measurements	DFG	Dr. Krahnemann	01.03.2007 - 28.02.2010	131.884,00
24	M78 - Koordination	M 78 Koordination	DFG	Dr. Schönfeld	01.10.2008 - 31.12.2009	162.786,00
25	Ma 2225/3-2	Forschergruppe „Saharan Mineral Dust Experiment SAMUM“ für das TP3 „Modeling and observation of Sahara Dust transport, modification and radiative impact“	DFG	Prof. Macke	01.03.2007 - 28.02.2010	89.700,00
26	NI 1248/1-1 ICIS	Interglacial conditions of the Iceland Sea	DFG	Dr. van Nieuwenhove	01.05.2009 - 31.10.2010	104.750,00
27	NU 60/14-2, Indonesien Gateway 2	The late Miocene to Pliocene constriction of the Indonesian Gateway and its impact on ocean circulation and climate	DFG	Dr. Nürnberg	01.02.2009 - 31.01.2010	49.150,00
28	Nu 60/17-1 LOOP	LOOP Current variability - its relation to meridional overturning circulation and the impact of Mississippi discharge	DFG	Dr. Nürnberg	01.08.2007 - 31.07.2009	251.738,00

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No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
29	SP 526/3-2, Arctic Freshwater	Impact of Arctic Freshwater (Fortsetzungsantrag)	DFG	Dr. Spielhagen	01.11.2008 - 31.10.2010	95.850,00
30	Sp 526/4-1 HOVAG	HOLocene Variability in the Arctic Gateway	DFG	Dr. Spielhagen	01.08.2007 - 31.07.2009	164.733,00
31	VO 687/8-1, Spätkreidezeitl. Klimaschwankungen	Kurzzeitliche Klimaschwankungen während des Treibhausklimas der späten Kreide - Ursachen und Auswirkungen	DFG	Dr. Voigt	01.11.2006 - 31.10.2009	28.000,00
32	WE 2686/5-2 PHEWEX	Centennial-scale variability of past heat and water mass exchange across the eastern equatorial Atlantic Basin	DFG	Dr. Weldeab	01.01.2009 - 31.12.2011	160.450,00
33	Joint Outreach Programm / PR	Volatile Fluide in Subduktionszonen: Klima-Rückkopplungen und Auslösemechanismen von Naturkatastrophen. Teilprojekt ÖA „A Joint Outreach Programme of SFB 754 & 574	DFG-SFB754	Dr. Dengg	01.01.2009 - 30.06.2012	324.600,00
34	TP C05	TP C05. Modellierung von Klimaeffekten/Rückkopplungen und Subduktionsprozessen	DFG-SFB754	Prof. Krüger	01.07.2008 - 30.06.2012	296.030,00
35	TP A01	TP A01 - Antwort des gekoppelten Systems Klima-Biogeochemie in den Tropen auf globaler Erwärmung	DFG-SFB754	Prof. Latif	01.01.2008 - 31.12.2011	152.000,00
36	TP A02	TP A02: Hochaufgelöste Modellierung der physikalisch-biogeochemischen Interaktionen im tropischen Ozean	DFG-SFB754	Prof. Böning	01.01.2008 - 31.12.2011	310.000,00
37	TP A03	TP A03: Diapyknische und isopyknische Vermischung an der Südflanke des Guinea Auftriebsgebietes: Ein Tracer Release Experiment	DFG-SFB754	Prof. Visbeck	01.01.2008 - 31.12.2011	193.200,00
38	TP A04	TP A04: Trends und Variabilität von Sauerstoffinventar und -versorgung in Sauerstoffminimumzonen	DFG-SFB754	Prof. Brandt	01.01.2008 - 31.12.2011	311.500,00
39	TP A05	TP A05: Bedeutung der Wassermassenstruktur im östlichen tropischen Pazifik für Sauerstoffvariabilität und geochemische Zusammensetzung	DFG-SFB754	Dr. Stramma	01.01.2008 - 31.12.2011	284.900,00
40	TP A05	TP A05: Bedeutung der Wassermassenstruktur im östlichen tropischen Pazifik für Sauerstoffvariabilität und geochemische Zusammensetzung	DFG-SFB754	Prof. Frank	01.01.2008 - 31.12.2011	284.900,00
41	TP A06	TP A06: Klimawandel und Sauerstoffminimum - Bedingungen auf 100-1000 Jahre Zeitskalen	DFG-SFB754	Prof. Dullo	01.01.2008 - 31.12.2011	200.300,00
42	TP B07	TP B07: Biogeochemische und mikropläontologische Rekonstruktion des Sauerstoffgehalts und der Redoxbedingungen der Vergangenheit in Küstenauftriebsgebieten	DFG-SFB754	Prof. Frank	01.01.2008 - 31.12.2011	334.600,00

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
43	TP Z02	TP Z02: Expeditionskosten für die SFB Schiffsreisen	DFG-SFB754	Dr. Stramma	01.01.2008 - 31.12.2011	438.300,00
44	03 CIE 003 CIESM 03-09	CIESM-Beitrag 03-09: Internationale Kommission für die wissenschaftliche Erforschung des Mittelmeeres.	BMBF	Prof. Dullo	01.11.2003 - 31.12.2009	365.111,12
45	03F0443B, Nordatlantik AP2.2	NORDATLANTIK: Die Bedeutung des Süßwasserhaushaltes für die zukünftige Entwicklung der thermohal. Zirk., Die Rolle des äquat. Atlantiks als Schlüsselreg. für Klimaschwankungen im atl. Raum; Schwankungen der tiefen Randstromzirk. am Ausgang der Labradorsee	BMBF	Prof. Visbeck	01.08.2006 - 31.12.2009	221.488,00
46	03F0443B, Nordatlantik AP3.2	NORDATLANTIK (s.o)	BMBF	Prof. Böning	01.08.2006 - 31.12.2009	244.740,00
47	03F0443B, Nordatlantik AP 1.2	NORDATLANTIK (s.o)	BMBF	Prof. Brandt	01.08.2006 - 31.12.2009	756.132,00
48	03F0443B, Nordatlantik AP 1.2	NORDATLANTIK (s.o)	BMBF	Prof. Latif	01.08.2006 - 31.12.2009	180.620,00
49	03F0605B-Nordatlantik, AP 1.1	Verbundprojekt: Nordatlantik - Teil des Erdsystems; Vorhaben: Klimaschwankungen und ihre Auswirkungen auf die thermohaline Zirkulation im Nordatlantik	BMBF	Prof. Latif	01.10.2009 - 30.09.2012	253.058,00
50	03F0605B-Nordatlantik, AP 1.2	Verbundprojekt: Nordatlantik	BMBF	Prof. Brandt	01.10.2009 - 30.09.2012	528.147,00
51	03F0605B-Nordatlantik, AP 2.2	Verbundprojekt: Nordatlantik	BMBF	Prof. Visbeck	01.10.2009 - 30.09.2012	255.775,00
52	03F0605B-Nordatlantik, AP 3.2	Verbundprojekt: Nordatlantik	BMBF	Prof. Böning	01.10.2009 - 30.09.2012	202.648,00
53	03G0639A - Verbundvorhaben Laptev See POLYNJA	Verbundprojekt: System Laptev See POLYNJA- Eurasische Schelfmeere im Umbruch - Ozeanische Fronten und Polynjasystemen der Laptev See; Vorhaben: TP 1: Jahreszeitliche Abläufe und Koordination	BMBF	Dr. Kassens	01.04.2007 - 31.03.2010	2.321.798,00
54	03G0672A KALMAR II TP1	KALMAR II TP 1 - Kurile Kamchatka an Aleuten Marginal Sea Island Arc Systems: Geodynamic and Climate Interaction in Space and Time	BMBF	Prof. Dullo	01.01.2009 - 31.12.2011	390.688,00
55	03G0672A KALMAR II TP4	KALMAR II TP 4	BMBF	Dr. Nürnberg	01.01.2009 - 31.12.2011	208.285,00
56	03PL040A OSL-Stipendienprogramm	OSL: Stipendienprogramm für das Otto-Schmidt-Labor für Polar- und Meeresforschung: Umweltsysteme im Umbruch	BMBF	Dr. Kassens	01.01.2009 - 31.12.2011	637.050,00

Appendices

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
57	3509820300 Ökosystemgerechtes Fischereimanagement	Ökosystemgerechtes Fischereimanagement in marinen Schutzgebieten	BMBF	Prof. Visbeck	01.09.2009 - 30.11.2011	242.099,00
58	Akademie TP Polynja 03G0639D	Unterauftrag Akademie Mainz: Zur Auswertung erhobener Isotopendaten und Durchführung der noch ausstehenden Salzgehalts und Isotopenmessungen. Im Zusammenhang mit dem BMBF Teilprojekt Polynja	BMBF	Dr. Spielhagen	01.10.2009 - 31.03.2010	42.983,93
59	BALTIC WAY	ERANET-BOUNS: Verbundprojekt BONUS-174: BALTICWAY - Die Bedeutung von Strömungen für das Umweltmanagement für die maritime Industrie im Ostseegebiet; Vorhaben: TP1	BMBF	Dr. Lehmann	01.01.2009 - 31.12.2011	127.894,00
60	KALMAR, Leitantrag	KALMAR - Kurile-Kamchatka an Aleuten Marginal Sea-Island Systems: Leitantrag: Kurilen Kamchatka Rekonstruktion der spätquartären Klima- und Umweltentwicklung	BMBF	Prof. Dullo	01.10.2006 - 30.09.2009	662.444,00
61	KEI Kiel Earth Institute	Kiel Earth Institute (KEI): Forschung und Beratung im Spannungsfeld von Umwelt, Gesellschaft und Wirtschaft	BMBF	Prof. Visbeck	01.01.2008 - 31.03.2010	100.000,00
62	MiKlip	MiKlip: Mittelfristige Klimaprognose, Koordination des Modul B: Prozesse und Modellierung	BMBF	Prof. Latif	01.10.2009 - 31.12.2009	18.911,00
63	RUS 06/004 IMPETUS	IMPETUS-Deutsch-Russisches Kompetenznetzwerk in der Meeresforschung, Internationale Zusammenarbeit in Bildung und Forschung mit Russland	BMBF	Dr. Kassens	15.04.2006 - 31.03.2009	218.906,00
64	RUS 06/017 POMOR	Internationale Zusammenarbeit in Bildung und Forschung mit Russland	BMBF	Dr. Kassens	01.01.2007 - 31.12.2009	344.998,00
65	SO 201 - KALMAR	SO201-Leg 2: SONNE-KALMAR: Kurile-Kamchatka and Aleuten MARGinale Sea-Island Systems: Geodynamic and Climate	BMBF	Prof. Dullo	01.02.2009 - 31.12.2009	178.213,00
66	Stipendiaten POMOR	10 Kurzzeitstipendien für die Absolvierung eines Praktikums in Deutschland für Studierende des Kooperativen Masterstudienganges für angewandte Polar- und Meereswissenschaften POMOR	BMBF	Dr. Kassens	01.05.2008 - 31.12.2009	22.800,00
67	Stipendium Prof. Sun Xuguang	Forschungsaufenthalt Prof. Sun Xuguang	BMBF	Prof. Greatbatch	01.07.2009 - 30.09.2009	6.495,00
68	SUA 07/004 Südafrika	Das Agulhas-System als Schlüsselregion der globalen ozeanischen Zirkulation	BMBF	Dr. Biastoch	04.04.2008 - 31.03.2011	12.408,00
69	3508850700 Meeresnaturschutz in Nord-+Ostsee	Klimawandel-bedingte Anforderungen an Maßnahmen des Meeresnaturschutzes in Nord- und Ostsee	BfN	Prof. Visbeck	01.10.2008 - 31.12.2010	364.367,58
70	A/09/02243 Stipendium Cahyarini	Studien- und Forschungsaufenthalt Frau Dr Sri Yuadawati Cahyarini	DAAD	Prof. Dullo	01.10.2009 - 30.11.2009	4.580,00

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
71	KollSat	Entwicklung und Anwendung einer Kollokationssoftware für Bojen- Schiffs- und Satellitenmessungen (KollSat)	DWD	Prof. Macke	01.09.2009 - 31.12.2009	182.165,00
72	SAF Climate Monitoring	Associated Scientists of the SAF Climate Monitoring	DWD	Prof. Macke	01.09.2009 - 31.08.2010	19.035,00
73	18122008 My Ocean	My Ocean - Development and pre-operational validation of upgrad- ed GMES Marine Core Services and capabilities	EU	Prof. Böning	01.01.2009 - 31.03.2012	195.457,00
74	211597 EuroArgo WP3,6,7	Global Ocean Observing Infrastructure: EuroArgo Preparatory Phase: Konsortialvereinbarung zwischen KDM, ZMK, AWI, IFM- GEOMAR	EU	Dr. Fischer	01.01.2008 - 30.06.2010	84.268,00
75	211597 EuroArgo/KDM	EuroArgo - Global Ocean Observing Infrastructure: EuroArgo Pre- paratory Phase: Konsortialvereinbarung zwischen KDM, ZMK, AWI, IFM-GEOMAR	EU	Dr. Fischer	01.01.2008 - 30.06.2010	20.865,00
76	212643 Thor TP 1	THOR - Thermohaline Overturning - at Risk	EU	Prof. Latif	01.01.2009 - 31.12.2012	419.189,29
77	212643 Thor TP 2	THOR - Thermohaline Overturning - at Risk	EU	Prof. Visbeck	01.01.2009 - 31.12.2012	479.226,13
78	212643 Thor TP3	THOR - Thermohaline Overturning - at Risk	EU	Prof. Böning	01.01.2009 - 31.12.2012	479.984,58
79	226224 SHIVA	Stratospheric Ozone: Halogen Impact in a Varying Atmosphere	EU	Prof. Krüger	01.07.2009 - 30.06.2012	522.667,00
80	AMMA TP1	AMMA: African Monsoon Multidisciplinary Analysis	EU	Prof. Latif	01.01.2005 - 31.12.2009	125.700,00
81	AMMA TP2	AMMA: African Monsoon Multidisciplinary Analysis	EU	Prof. Brandt	01.01.2005 - 31.12.2009	132.300,00
82	CarboOCean TP 3 (511176-2)	Marine carbon sources and sinks assessment	EU	Prof. Send	01.01.2005 - 31.12.2009	187.400,00
83	CarboSchools 217751	CarboSchools; Coordination and support action, European network of regional projects for school partnership on climate change re- search	EU	Dr. Dengg	01.01.2008 - 31.12.2010	80.000,00
84	Ensembles	ENSEMBLE-based Predictions of Climate Changes and their Im- pacts	EU	Prof. Latif	01.09.2004 - 31.08.2009	403.074,00
85	EuroSITES	European Ocean Observatory Network	EU	Dr. Karsten- sen	01.04.2008 - 31.03.2011	186.720,00

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No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
86	TENATSO (037090, Visbeck)	Tropical Eastern North Atlantic Time-Series Observatory (Specific Support Action) Coordinator	EU	Prof. Visbeck	01.10.2006 - 31.03.2009	18.000,00
87	Frühwarnsysteme	Frühwarnsysteme für globale Klimaveränderungen und ihre historische Dokumentation in natürlichen Klimaarchiven hier: Sachmittelverwaltung aufgrund Kooperationsvereinbarung AWI, IFM-GEOMAR und Akademie	AdW	Dr. Spielhagen	01.06.2005 - 31.12.2009	122.324,23
88	CAVIAR	CAVIAR - Climate Variability of the Baltic Sea area	Sonstige	Dr. Lehmann	01.05.2008 - 31.12.2010	165.000,00
89	FeBeC TP 1	Fehmarnbelt-Brücke: Modelluntersuchungen zur Signifikanz der Veränderungen durch den Brückenbau im Vergleich der Klimaänderungen der gesamten Ostsee	Sonstige	Dr. Karstensen	01.01.2009 - 31.12.2010	30.500,00
90	POMOR Uni Mittel	POMOR zusätzliche Mittel von der Uni HH, Bremen und Kiel für Reisekosten der Stipendiaten	Sonstige	Dr. Kassens	01.01.2007 - 31.12.2009	35.000,00
						22.552.010,86

¹ Total Budget over the complete funding period

Projects - Research Division 2: Marine Biogeochemistry

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
1	Ke466/1-3 Ridge 3	Emission and plume transport of methane and hydrogen from the Mid-Atlantic Ridge	DFG	Dr. Keir	01.11.2007 - 31.10.2009	68.570,00
2	BA 1990/10-1 4th SSS	Fourth International SOLAS (Surface Ocean Lower-Atmosphere Study) Summer School	DFG	Dr. Bange	01.07.2009 - 31.12.2009	19.290,00
3	BIOCAT	Biogeochemical Interactions between the Ocean and the Atmosphere (BIOCAT) Summerschool 2008	DFG	Dr. Bange	01.06.2008 - 31.01.2009	12.000,00
4	BR 1075/11-1, Costa Rica Mud Mounds Site Survey	Costa Rica Mud Mounds Site Survey Site survey data evaluation IODP Proposal 633	DFG	Dr. Brückmann	01.08.2008 - 31.07.2009	58.800,00
5	CLUSTER - 2007/1 CP0710, VARAN /24	Variations of Trace Element Fluxes induced by Ocean Acidification at Ca ₂₊ -Channels/Ca ₂₊ -ATPases	DFG	Prof. Eisenhauer	01.09.2007 - 31.08.2009	84.800,00
6	CLUSTER- JRG A1 Ozeanversauerung 1067/23	JRG A1 Ozeanversauerung	DFG	Prof. Melzner	01.12.2007 - 30.11.2010	750.000,00
7	CLUSTER - Seafloor Warming Effect /26	CLUSTER: A2. Seafloor Warming Effect Junior Professur	DFG	Prof. Treude	01.01.2008 - 30.11.2011	800.000,00
8	CLUSTER 12009/1 CP0918, Photolysis of carbonyl Com	Photolysis of Carbonyl Compound in seawater: Primary Products, Quantum Yields and Loss Rates in Natural Sunlight	DFG	Dr. Croot	01.11.2009 - 30.06.2011	13.000,00
9	CLUSTER- 2007/2 CP07A34 Nitrogen cycle /25	Cluster: Carbon and nitrogen cycle dynamics: integrated analysis of open ocean observations and mesocosm experiments.	DFG	Prof. Oschlies	01.01.2008 - 30.06.2009	80.000,00
10	CLUSTER -2007/2 CP07A39 Neural-Net-work/ 27	Neural-Network based coupling of benthic and pelagic components of biogeochemical ocean circulation models	DFG	Prof. Oschlies	01.02.2008 - 31.03.2010	80.000,00
11	CLUSTER 2009/1 CP0910, High-resolution/82	A novel system for continuous high-resolution measurements of atmospheric and dissolved N ₂ O	DFG	Dr. Bange	01.11.2009 - 30.06.2011	100.000,00
12	CLUSTER 2009/1 CP0911, Nitrogen fixation in sediment	The occurrence and relevance of nitrogen fixation in sediments of oxygen minimum zones	DFG	Prof. Treude	01.11.2009 - 30.06.2011	73.500,00
13	CLUSTER 2009/1 CP0915, Seafloor warming on oxygen	Novel, non-invasive investigation of seafloor warming oxygen and heat fluxes from the benthic boundary layer into the water column	DFG	Dr. Linke	01.11.2009 - 30.06.2011	100.000,00

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No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
14	CLUSTER 2009/1 CP0923, Zooplankton in tropical oxy	The role zooplankton in tropical oxygen minimum layers: physiological adaptation and contribution to fluxes of carbon and oxygen	DFG	Dr. Kiko	01.11.2009 - 30.06.2011	100.000,00
15	CLUSTER 2009/1 CP0927, Rise of slime /87	Does the „rise of slime“ foster an oceanic „jelly carbon pump?“	DFG	Prof. Oschlies	01.11.2009 - 30.06.2011	100.000,00
16	CLUSTER 2009/1 CP0932/ Magnesium Isotope Fractiona	Magnesium Isotope Fractionation in Planktic Foraminifera as a Proxy for Sea Surface pH Variations	DFG	Prof. Eisenhauer	01.11.2009 - 30.06.2011	93.500,00
17	CLUSTER Trop. Eastern North Atlantic 2007 CP0726	Improved Methods for Nitrogen Isotope Studies with Specific Application at the Tropical Eastern North Atlantic Time-Series Observatory, Cape Verde	DFG	Prof. Wallace	01.09.2007 - 31.08.2009	74.400,00
18	CLUSTER Workshop Texel /75	Workshop: Developing Long Term International Collaboration on Methane Hydrate Research Monitoring in the Arctic Region	DFG	Prof. Treude	18.02.2009 - 20.02.2009	5.000,00
19	CLUSTER-2007/2 CP07A43, High performance/35	CLUSTER: Exploring the genetic resources of deep sea extremophiles: Searching for high performance novel enzymes	DFG	Prof. LaRoche	01.03.2008 - 28.02.2010	80.000,00
20	CLUSTER-2007/2 CP07A52 Neglected Bottleneck/ 34.2	CLUSTER: The neglected bottleneck: Early life stage ecology in times of global change	DFG	Prof. Riebesell	01.02.2008 - 31.03.2010	28.400,00
21	CLUSTER-2007/2 CP07A65 /32 Gene expression	CLUSTER - Gene expression patterns in sea urchin embryos: Establishing a model system for biological and marine medical research in the context of global change	DFG	Prof. Melzner	01.02.2008 - 31.03.2010	80.000,00
22	CLUSTER-2008/1 CP0813 Paradox of plankton/69	Can different feeding strategies help to resolve the paradox of plankton?	DFG	Prof. Oschlies	01.01.2009 - 31.12.2010	50.000,00
23	CLUSTER-2008/1 CP0816 Kiel Bay /70	Seasonal carbonate system variability in Kiel Bay and correlated physiological performance of local blue mussels	DFG	Prof. Melzner	01.01.2009 - 31.12.2010	50.000,00
24	CLUSTER-2008/1 CP0822 Submarine CCS/73	Assessing the risk of leakage from submarine CCS	DFG	Prof. Wallmann	01.01.2009 - 31.12.2010	50.000,00
25	CLUSTER-2008/1 CP0824 Air Sea Flux/74	Air-sea flux measurements of trace gases with atmospheric pressure chemical ionization time of flight mass spectrometry	DFG	Prof. Wallace	01.01.2009 - 31.12.2010	50.000,00
26	CLUSTER-Biogeochemical models 1067/15	The Future Ocean, Clusterproposal „A new computational framework to efficiently integrate biogeochemical models from seasonal to multi-millennial time scales“	DFG	Prof. Oschlies	01.07.2007 - 30.06.2009	78.600,00

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
27	CLUSTER-Modelling chemosensor-aidet/16 CP730/16	Modelling chemosensor-aided foraging in zooplankton	DFG	Prof. Oschlies	01.09.2007 - 31.08.2009	70.000,00
28	CR 145/10-1	The influence of Fe on the distribution and kinetic speciation of Zn, CD, Co and Ni in the Southern Ocean (IPY)	DFG	Dr. Croot	01.08.2007 - 31.07.2009	73.550,00
29	CR 145/10-2	The influence of Fe on the distribution and kinetic speciation of Zn, CD, Co and Ni in the Southern Ocean (IPY)	DFG	Dr. Croot	01.08.2009 - 31.07.2010	36.137,00
30	CR 145/15-1	Nanoparticles, Colloids and their relationship to Titanium, Aluminium and Iron solubility in the Open Ocean	DFG	Dr. Croot	01.12.2007 - 30.11.2010	110.250,00
31	CR 145/16-1	Iodine Biogeochemistry in the Southern Ocean	DFG	Dr. Croot	01.08.2008 - 31.07.2009	33.332,00
32	CR145/11-1	Mapping Si and N Isotopes in Southern Ocean Surface Waters in Relation to Fe and Nutrient Concentrations and Diatom Valve Morphology	DFG	Dr. Croot	01.08.2007 - 31.07.2009	21.150,00
33	CR145/17-1 Saharan Dust	Mn and Cu specification in the Tropical Atlantic: influence of Saharan dust, phytoplankton exudation and ROS (H ₂ O ₂ and O ₂)	DFG	Dr. Croot	01.12.2009 - 30.11.2012	123.950,00
34	EI 272/14-3	Magnesiumisotope als Proxy für abiogene und biogene Kalzifikationsprozesse und für die chemische Evolution der Ozeane im Phanerozoikum	DFG	Prof. Eisenhauer	01.01.2008 - 31.12.2010	109.600,00
35	EI 272/22-1	The last deglacial sea-level and climatic changes. Coral Reef records in the south Pacific: Tahiti (French Polynesia) - IOPD- Expedition #310-, Australian Great Barrier Reef- IODP Proposal #519	DFG	Prof. Eisenhauer	01.10.2007 - 30.09.2010	109.200,00
36	Ei 272/23-1 P.O.E.T	Räumliche Verlagerung des Phasenversatzes zwischen oberflächennaher Ozeanverwärmung, Evaporation und Änderungen im kontinentalen Eisvolumen zu Beginn der interglazialen Isotopenstadien 1 und 5	DFG	Prof. Eisenhauer	01.08.2007 - 31.07.2009	181.400,00
37	EI 272/23-2 P.O.E.T 2	P.O.E.T: Räumliche Verlagerung des Phasenversatzes zwischen oberflächennaher Ozeanverwärmung, Evaporation und Änderungen im kontinentalen Eisvolumen zu Beginn der interglazialen Isotopenstadien 1 und 5	DFG	Prof. Eisenhauer	01.11.2009 - 30.04.2010	14.700,00
38	EI 272/29-1 QUASAR	Die Quantifizierung des marinen Sr-Haushaltes mittels radiogener (87Sr86/Sr) und stabiler(86/88Sr) Sr-Isotopenverhältnisse	DFG	Prof. Eisenhauer	01.07.2009 - 30.06.2012	103.873,00
39	OS 175/4-1, CO2mix	Modellgestützte Untersuchungen zum Einfluss mariner Vermischungsprozesse auf glazial-interglaziale Änderungen des atmosphärischen CO ₂ Gehalts	DFG	Prof. Oschlies	01.03.2007 - 28.02.2010	95.450,00

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No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
40	Ri 598/2-2, Carbon Partitioning	Temperatur-dependency of carbon partitioning between dissolved and particulate organic matter in a pelagic new production system	DFG	Prof. Riebesell	01.11.2006 - 31.10.2009	213.000,00
41	RI 598/2-3	The impact of temperature on the partitioning between particulate and dissolved organic carbon in a pelagic new production system	DFG	Prof. Riebesell	01.09.2009 - 30.08.2010	68.970,00
42	Ri 598/4-1	Auswirkung der Ozeanversauerung auf die Kalzifizierung der riffbildenden Kaltwasserkoralle <i>Lophelia pertusa</i> (Scleractinia)	DFG	Prof. Riebesell	01.09.2007 - 30.08.2010	187.250,00
43	Ro 2138/6-1	The photosynthetic response to iron limitation and iron resupply in diatoms	DFG	Prof. LaRoche	01.09.2007 - 31.08.2010	136.050,00
44	Ta 317/1-1, BaTre	Investigation of deep-water mixing in the Baltic Sea with the help of a tracer release experiment. (BaTRE)	DFG	Dr. Tanhua	01.05.2007 - 30.04.2010	18.179,00
45	Wa 1434/10-1, Tracers in the Tropical Atlantic	Anthropogenic Carbon, CFC-12 and SF6 in the Tropical Atlantic	DFG	Prof. Wallace	01.11.2007 - 31.10.2010	113.450,00
46	TP B03	TP B03: Benthischer Volatilen-Ausstrom und Umsatz: Mechanismen und Budgets	DFG-SFB574	Dr. Linke	01.07.2008 - 30.06.2012	307.900,00
47	TP B05	TP B05: Diagenetische Prozesse in Forearc Sedimenten und der Volatileintrag in Subduktionszonen Systeme: Akkumulation, Transport und Freisetzung von Volatilen	DFG-SFB574	Dr. Hensen	01.07.2008 - 30.06.2012	344.050,00
48	TP B06	TP B06 - Authigene Karbonate als Langzeitarchiv für Fluidfreisetzung	DFG-SFB574	Prof. Eisenhauer	01.07.2008 - 30.06.2012	125.800,00
49	TP A01	TP A01 - Antwort des gekoppelten Systems Klima-Biogeochemie in den Tropen auf globaler Erwärmung	DFG-SFB754	Prof. Oschlies	01.01.2008 - 31.12.2011	152.000,00
50	TP A03	TP A03: Diapyknische und isopyknische Vermischung an der Südflanke des Guinea Auftriebsgebietes: Ein Tracer Release Experiment	DFG-SFB754	Prof. Wallace	01.01.2008 - 31.12.2011	193.200,00
51	TP A04	TP A04: Trends und Variabilität von Sauerstoffinventar und -versorgung in Sauerstoffminimumzonen	DFG-SFB754	Prof. Körtzinger	01.01.2008 - 31.12.2011	311.500,00
52	TP A07	TP A07: Ursachen und zeitlicher Verlauf von Einsetzen und Ausbreitung anoxischer Verhältnisse im Kreide-Ozean	DFG-SFB754	Prof. Wallmann	01.01.2008 - 31.12.2011	234.300,00
53	TP B01	TP B01: Ein globales Modell redox-sensitiver biogeochemischer Kreisläufe	DFG-SFB754	Prof. Oschlies	01.01.2008 - 31.12.2011	165.700,00
54	TP B01	TP B01: Ein globales Modell redox-sensitiver biogeochemischer Kreisläufe	DFG-SFB754	Prof. Wallmann	01.01.2008 - 31.12.2011	165.700,00
55	TP B02	TP B02: Reaktionen der Planktongemeinschaft auf Änderungen der Nährstoffstöchiometrie	DFG-SFB754	Prof. Riebesell	01.01.2008 - 31.12.2011	99.000,00

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
56	TP B03	TP B03: Sensitivität der biologischen Stickstofffixierung im Ozean gegenüber gelöstem Sauerstoff	DFG-SFB754	Prof. LaRoche	01.01.2008 - 31.12.2011	161.200,00
57	TP B04	TP B04: Stickstoffverlust und Nährstofferneuerung in Meerwasser mit einem Sauerstoffdefizit	DFG-SFB754	Prof. LaRoche	01.01.2008 - 31.12.2011	156.100,00
58	TP B05	TP B05: Auswirkungen niedriger Sauerstoffkonzentrationen auf dem Biogeochemischen Kreislauf von Eisen und Phosphat	DFG-SFB754	Dr. Hensen	01.01.2008 - 31.12.2011	230.300,00
59	TP B05	TP B05: Auswirkungen niedriger Sauerstoffkonzentrationen auf den Biogeochemischen Kreislauf von Eisen und Phosphat	DFG-SFB754	Dr. Croot	01.01.2008 - 31.12.2011	230.300,00
60	TP B06	TP B06: Redox-sensitive Stickstoffflüsse in der Bodengrenzschicht	DFG-SFB754	Prof. Eisenhauer	01.01.2008 - 31.12.2011	250.700,00
61	TP Z01	TP Z01: Zentrale Aufgaben des Sonderforschungsbereiches	DFG-SFB754	Prof. Wallace	01.01.2008 - 31.12.2011	1.416.160,00
62	TP Z02	TP Z02: Expeditionskosten für die SFB Schiffsreisen	DFG-SFB754	Dr. Pfannkuche	01.01.2008 - 31.12.2011	438.300,00
63	TP Z1 Pauschale Mittel	SFB 754 Zentrale Aufgaben des Sonderforschungsbereiches. Hier: Pauschale Mittel	DFG-SFB754	Prof. Wallace	01.01.2009 - 31.12.2011	225.000,00
64	03F0444C, NICO	Verbundprojekt: Nitratsensor -UV-Nitratsensor für den Einsatz in der Meeresforschung; Algorithmenoptimierung und Antifouling	BMBF	Prof. Körtzinger	01.08.2006 - 31.12.2009	61.789,00
65	03F0447A, MOST, WTZ Deutsch-Israel	WTZ Deutsch-Israel: System Erde: Kombinierte Effekte von angestiegenen Temperaturen und erhöhtem CO ₂ auf wichtige aquatische Diazotrophe auf physiologischem, biochemischem und Gen-Expressionslevel	BMBF	Prof. LaRoche	01.08.2006 - 31.07.2009	170.000,00
66	03F0462A, SOPRAN, TP 0.1	SOPRAN (Surface Ocean Processes in Anthropocene) Ozeanische Oberflächenprozesse im Anthropozän; Leitantrag, TP IFM-GEOMAR	BMBF	Prof. Wallace	01.11.2006 - 31.12.2009	571.809,00
67	03F0462A, SOPRAN, TP 1.2	SOPRAN (Surface Ocean Processes in Anthropocene) Ozeanische Oberflächenprozesse im Anthropozän; TP 1.2	BMBF	Prof. LaRoche	01.11.2006 - 31.12.2009	368.149,00
68	03F0462A, SOPRAN, TP 2.4	SOPRAN (Surface Ocean Processes in Anthropocene) Ozeanische Oberflächenprozesse im Anthropozän; TP 2.4	BMBF	Prof. Lochte	01.11.2006 - 31.12.2009	135.195,00
69	03F0462A, SOPRAN, TP2.3	SOPRAN (Surface Ocean Processes in Anthropocene) Ozeanische Oberflächenprozesse im Anthropozän; TP 2.3	BMBF	Prof. Riebesell	01.11.2006 - 31.12.2009	574.997,00
70	03F0462A, SOPRAN, TP3.1	SOPRAN (Surface Ocean Processes in Anthropocene) Ozeanische Oberflächenprozesse im Anthropozän; TP 3.1	BMBF	Prof. Wallace	01.11.2006 - 31.12.2009	375.709,00
71	03F0462A, SOPRAN, TP3.4	SOPRAN (Surface Ocean Processes in Anthropocene) Ozeanische Oberflächenprozesse im Anthropozän; TP 3.4	BMBF	Dr. Bange	01.11.2006 - 31.12.2009	380.792,00

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No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
72	03F0462A, SOPRAN, TP3.5	SOPRAN (Surface Ocean Processes in Anthropocene) Ozeanische Oberflächenprozesse im Anthropozän; TP 3.5	BMBF	Prof. Körtzinger	01.11.2006 - 31.12.2009	344.549,00
73	03F0477I FS SONNE Neubau	Nachfolgebau FS SONNE	BMBF	Dr. v. Bröckel	01.04.2008 - 31.03.2012	363.709,00
74	03F0605B-Nordatlantik, AP 3.3	Verbundprojekt: Nordatlantik - Teil des Erdsystems; Vorhaben: Klimaschwankungen und ihre Auswirkungen auf die thermohaline Zirkulation im Nordatlantik	BMBF	Prof. Oschlies	01.10.2009 - 30.09.2012	230.530,00
75	03F0608A BIOACID TP 0.1	Verbundprojekt BIOACID - Biologische Auswirkungen der Ozeanversauerung: Vorhaben: Koordination; Training und Wissenstransfer; Anpassung oder Akklimatisation in Autotrophen; Kalzifizierung- Empfindlichkeiten von Phyla bis Ökosystemen	BMBF	Prof. Riebesell	01.09.2009 - 31.08.2012	391.032,00
76	03F0608A BIOACID TP 0.4	Verbundprojekt BIOACID - Biologische Auswirkungen der Ozeanversauerung: Vorhaben: Training und Wissenstransfer	BMBF	Dr. Meyerhöfer	01.09.2009 - 31.08.2012	4.500,00
77	03F0608A BIOACID TP 1.1.2	Verbundprojekt BIOACID - Biologische Auswirkungen der Ozeanversauerung: Vorhaben: Wechselwirkung zwischen Kohlenstoff- und Eisenverfügbarkeit und ihr Einfluss auf Photosynthese und Primärproduktion im Ozean	BMBF	Prof. LaRoche	01.09.2009 - 31.08.2012	78.741,00
78	03F0608A BIOACID TP 1.1.3	BIOACID - Biologische Auswirkungen der Ozeanversauerung Vorhaben : Anpassung oder Akklimatisation in autotrophen Organismen	BMBF	Prof. Riebesell	01.09.2009 - 31.08.2012	210.184,00
79	03F0608A BIOACID TP 1.1.4	BIOACID - Biologische Auswirkungen der Ozeanversauerung Vorhaben: Schnelle evolutive Anpassung wichtiger Phytoplanktonarten an einen Ozean mit hohem CO ₂ -Partialdruck.	BMBF	Prof. Riebesell	01.09.2009 - 31.08.2012	121.519,00
80	03f0608A BIOACID TP 3.1.1	BIOACID - Biologische Auswirkungen der Ozeanversauerung Vorhaben: Anorganische Kohlenstoffaufnahme für Kalzifizierung und Photosynthese in Coccolithophoriden: Entwicklung einer einheitlichen Theorie	BMBF	Dr. Schulz, Kai	01.09.2009 - 31.12.2012	134.088,00
81	03F0608A BIOACID TP 3.1.2	BIOACID - Biologische Auswirkungen der Ozeanversauerung Vorhaben: Transepitheliale Kalzifizierungsprozesse in der hermatypischen Kaltwasserkoralle (<i>Sleractinia</i>)	BMBF	Dr. Form	01.09.2009 - 31.08.2012	255.126,00
82	03F0608A BIOACID TP 3.1.3	BIOACID - Biologische Auswirkungen der Ozeanversauerung Vorhaben: Effekte von Ozeanversauerung auf Kalzifizierung & Ionen - Homöostase im Stamm Mollusca	BMBF	Prof. Melzner	01.09.2009 - 31.08.2012	115.488,00
83	03f0608A BIOACID TP 3.2.1	BIOACID - Biologische Auswirkungen der Ozeanversauerung Vorhaben: Einfluss der Versauerung und Erwärmung auf sub-polare schalenbildende Pteropoden	BMBF	Prof. Riebesell	01.09.2009 - 31.08.2012	170.248,00

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
84	03F0608A BIOACID TP 3.2.4	BIOACID - Biologische Auswirkungen der Ozeanversauerung Vorhaben: Einfluss der Ozeanversauerung auf koralline Rotalgen	BMBF	Dr. Fietzke	01.09.2009 - 31.08.2012	191.262,00
85	03f0608A BIOACID TP 3.3.2	BIOACID - Biologische Auswirkungen der Ozeanversauerung Vorhaben: Der Einfluss von sinkenden pH-Werten, Salinitäts- und Temperaturveränderungen auf die Spurenelementverteilung zwischen Meerwasser und kalzifizierenden Organismen	BMBF	Prof. Eisenhauer	01.09.2009 - 31.08.2012	115.785,00
86	03F0608A BIOACID TP 5.2	BIOACID - Biologische Auswirkungen der Ozeanversauerung Vorhaben: TP5.2	BMBF	Prof. Oschlies	01.09.2009 - 31.08.2012	276.772,00
87	03G0196B SO 196-SUMSUN	SO 196 - SUMSUN. Geochemische Untersuchungen der Porenwässer und Sedimente von CO ₂ Seeps	BMBF	Prof. Wallmann	01.01.2008 - 28.02.2009	27.856,00
88	03G0687A SUGAR TP 4	Verbundprojekt: SUGAR-Submarine Gashydrat-Ressourcen; SUGAR-A: Submarine Gashydrat-Lagerstätten als Deponie für die CO ₂ -Sequestrierung; Vorhaben. Prospektion und Exploration von Gashydrat-Lagerstätten - Sonderprogramm GEOTECHNOLOGIEN	BMBF	Dr. Hensen	01.05.2008 - 30.04.2011	227.133,00
89	03G0731A SO Transit: TransBromSonne	TransBromSonne - Emissionen kurzlebiger Bromverbindungen im tropischen Westpazifik, ihre Quellen und ihr Eintrag in die Stratosphäre	BMBF	Dr. Quack	01.07.2009 - 28.02.2011	55.671,00
90	03SX250 SUGAR B	Verbundprojekt: SUGAR Vorhaben: Numerische Simulation des Hydratabbaus und Erdgasgewinnung mittels CO ₂ -Substitution von Methan in Clathraten	BMBF	Prof. Wallmann	01.07.2008 - 30.06.2011	1.861.872,00
91	IND 08/204 Forschungsmarketing	Forschungsmarketing zum Projekt „Submarine Gashydrat Lagerstätten, SUGAR“: Umsetzung von Marketing Maßnahmen im Zielland Indien	BMBF	Dr. Brückmann	01.11.2008 - 30.04.2010	76.200,00
92	TUR 08/I09, intern. Zusammenarbeit Türkei	internationale Zusammenarbeit mit der Türkei Modelling phosphorus and nitrogen cycles at oxic-anoxic interfaces in the water column	BMBF	Prof. Oschlies	01.01.2009 - 31.12.2011	101.359,00
93	18122008 My Ocean	My Ocean - Development and pre-operational validation of upgraded GMES Marine Core Services and capabilities	EU	Prof. Oschlies	01.01.2009 - 31.03.2010	147.450,00
94	211384 EPOCA	EPOCA - European Project on Ocean Acidification	EU	Prof. Oschlies	01.05.2008 - 30.04.2012	160.395,20
95	211384 EPOCA	EPOCA - European Project on Ocean Acidification	EU	Prof. Riebesell	01.05.2008 - 30.04.2012	591.503,80
96	211816 EMSO	EMSO: European Multidisciplinary Seafloor Observation	EU	Dr. Pfannkuche	01.01.2009 - 31.03.2012	82.038,40
97	212196-COCOS	COCOS-Coordination Action Carbon Observation System	EU	Prof. Wallace	01.01.2009 - 30.04.2011	139.956,00

Appendices

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
98	228224 MesoAqua TP1	Network of leading MESOCosm facilities to advance the studies of future AQUATIC ecosystems from the Arctic to Mediterranean	EU	Prof. Riebesell	01.01.2009 - 31.12.2012	372.372,00
99	CarboOcean TP 2 (511176-2)	Marine carbon sources and sinks assessment	EU	Prof. Oeschies	01.01.2005 - 31.12.2009	111.500,00
100	CarboOcean TP 4 (511176-2)	Marine carbon sources and sinks assessment	EU	Prof. Körtzinger	01.01.2005 - 31.12.2009	241.100,00
101	CarboOcean TP 4 (511176-2)	Marine carbon sources and sinks assessment	EU	Prof. Wallace	01.01.2005 - 31.12.2009	204.100,00
102	CarboOcean TP 5 (511176-2)	Marine carbon sources and sinks assessment	EU	Prof. Körtzinger	01.01.2005 - 31.12.2009	207.500,00
103	CarboOcean TP 6 (511176-2)	Marine carbon sources and sinks assessment	EU	Prof. LaRoche	01.01.2005 - 31.12.2009	48.200,00
104	CarboOcean TP 7 (511176-2)	Marine carbon sources and sinks assessment	EU	Prof. Riebesell	01.01.2005 - 31.12.2009	230.000,00
105	CarboOcean TP 8 (511176-2)	Marine carbon sources and sinks assessment	EU	Dr. Rehder	01.01.2005 - 31.12.2009	154.800,00
106	COST Workshop 735-01917	COST-Workshop 22.01.-23.01.09	EU	Dr. Bange	22.01.2009 - 23.01.2009	875,00
107	ESONET (GOCE 036851)	European Seas Observatory Network	EU	Dr. Pfannkuche	01.03.2007 - 28.02.2011	13.168,00
108	HERMES (GOCE-CT-2005-511234-1)	Hotspot Ecosystem Research on the Margins Seas (HERMES)	EU	Dr. Pfannkuche	01.04.2005 - 31.03.2009	537.240,00
109	HERMIONE	HERMIONE - Hotspot Ecosystem Research and Man`s Impact on European Seas	EU	Dr. Pfannkuche	01.04.2009 - 31.03.2012	297.760,00
110	HYPOX	HYPOX-In situ monitoring of oxygen depletion in hypoxic ecosystems of coastal and open seas and land-locked water bodies	EU	Dr. Pfannkuche	01.04.2009 - 31.03.2012	302.400,00
111	Marine CH ₄ oxidation (MOIF-CT-2006-021604)	Marine CH ₄ oxidation, the role water column methane oxidation in the global carbon budget: Marie Curie Outgoing Fellowships	EU	Dr. Rehder	01.05.2006 - 30.04.2009	260.570,72
112	PIEF-GA-2009-236694 DAPOP	Deposition of Atmospheric Particles on the Ocean: a Process study -Support for training and career development of researchers (Marie Curie) Intra-European Fellowship-	EU	Dr. Croot	01.05.2009 - 30.04.2011	161.563,92
113	PITN-GA-2008-215157 CalMarO	CalMarO - Calcification by Marine Organism Networks for Initial Training (ITN): Marie Curie/SP3 People	EU	Prof. Eisenhauer	01.10.2008 - 30.09.2012	194.585,49

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
114	PITN-GA-2008-215157 CarlMarO	CalMaro - Calcification by Marine Organism Networks for Initial Training (ITN): Marie Curie/SP3 People	EU	Prof. LaRoche	01.10.2008 - 30.09.2012	101.005,04
115	PITN-GA-2008-215157 CarlMarO	CalMaro - Calcification by Marine Organism Networks for Initial Training (ITN): Marie Curie/SP3 People	EU	Prof. Riebesell	01.10.2008 - 30.09.2012	194.585,49
116	TENATSO (037090)	Tropical Eastern North Atlantic Time-Series Observatory (Specific Support Action) Coordinator	EU	Prof. Wallace	01.10.2006 - 31.03.2009	112.200,00
117	SUGAR B	SUGAR B, Zuschuss von E.ON, REW, Stadtwerke Kiel	Sonstige Industrie	Prof. Wallmann	01.07.2008 - 30.06.2011	1.037.000,00
118	USA/1133906 STP Stipendium Christa Marandino	Forschungsstipendium Dr. Christa Marandino für 12 Monate	AvH	Prof. Wallace	01.11.2009 - 31.10.2010	36.600,00
119	EWLA Workshop	10 th European Workshop on Laser Ablation (EWLA) June 2010	Diverse	Dr. Fietzke	01.06.2009 - 31.12.2010	46.500,00
24.085.594,06						

¹ Total Budget over the complete funding period

Appendices

Projects - Research Division 3: Marine Ecology

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
1	AB 289/2-1, LITROPE	Der Einfluss von Nährstofflimitationen auf Primär- und Sekundärkonsumenten und die Weitergabe dieses Limitationssignals an höhere trophische Ebenen.	DFG	Dr. Aberle-Malzahn	18.10.2006 - 17.10.2009	77.367,00
2	CI 126/3-2, RECONN2	Resolving Trophodynamic Consequence of Climate Change (RECONN 2): Match-mismatch between Secondary and Tertiary Production in the Baltic Sea	DFG	Dr. Clemmesen-Bockelmann	01.11.2006 - 31.10.2009	135.600,00
3	CL 126/3-3, RECONN 3	Resolving Trophodynamic Consequences of climate Change (RECONN 3)	DFG	Dr. Clemmesen-Bockelmann	01.12.2009 - 30.11.2010	62.740,00
4	CLUSTER - Fisheries-Management /43	Alternative Scenarios für European Fisheries Management	DFG	Dr. Froese	01.04.2008 - 31.03.2010	31.850,00
5	CLUSTER - 2008/1/CP0809 PIPEFISH/67	PIPEFISCH-Parasit interactions under global warming	DFG	Prof. Reusch	01.01.2009 - 31.12.2010	49.440,00
6	CLUSTER -2007/1 CP0722 Omega 34S 1067/20	Building up the capacity for Omega34S measurements from organic samples by continuous flow isotope mass spectrometry	DFG	Prof. Sommer	01.09.2007 - 31.08.2009	71.000,00
7	CLUSTER-2007/2CP07A46, /29 Model Macroalga	CLUSTER: A transcript profiling tool to investigate synergistic effects of non-biotech and biotic changes in a model macroalga	DFG	Dr. Weinberger	01.02.2008 - 31.03.2010	80.000,00
8	CLUSTER 2009/1 CP0906/ Global change on Labyrinthu	Effects of global change on Labyrinthula-infection in eelgrass Zostera marina	DFG	Dr. Bockelmann	01.11.2009 - 30.06.2011	95.000,00
9	CLUSTER 2009/1 CP0931, Winners and losers in the	Winners and losers in the Future Ocean	DFG	Dr. Froese	01.11.2009 - 30.06.2011	100.000,00
10	CLUSTER Complex barriers 2007/1 CP0706 /19	Complex barriers: The biotech control of marine biofilms on algal surface	DFG	Prof. Wahl	01.09.2007 - 31.08.2009	102.800,00
11	CLUSTER- MINIPROPOSAL Managing Cod /08	Managing Cod and Sprat in the Central Baltic Sea - A Bio-economic Multi-Species Approach with Stochastic Regeneration Functions	DFG	Dr. Froese	01.02.2007 - 31.12.2009	50.000,00
12	CLUSTER-2007/2 CP07A51 Altern. Scenarios/43	Cluster Proposal 2007/2: Alternative Scenarios for European Fisheries Management	DFG	Dr. Froese	01.10.2008 - 31.10.2009	31.850,00
13	CLUSTER-2007/2 CP07A52 Neglected Bottleneck/ 34.1	CLUSTER: The neglected bottleneck: Early life stage ecology in times of global change	DFG	Prof. Wahl	01.02.2008 - 31.03.2010	51.600,00

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
14	CLUSTER-2008/1 CP0818 Macroalga /71	Consequences of seafloor warming and salinity decrease for macroalga-microbe interactions	DFG	Dr. Weinberger	01.01.2009 - 31.12.2010	50.000,00
15	CLUSTER-Missing Baselines 2009/1 CP0901/78	Cluster: Missing Baselines and Ecological Noise	DFG	Prof. Wahl	01.11.2009 - 30.06.2011	95.000,00
16	IM 12/16-1	Analyse spezifischer prokaryontischer Gruppen im oligotrophen Levantinischen Becken im Hinblick auf horizontale und vertikale Zonierung sowie Reaktionen auf Nährstoff-Einträge	DFG	Prof. Imhoff	01.08.2007 - 31.12.2009	75.760,00
17	RE 1108/12-1 Mnemi- opos	Evolutionsökologie der Mnemiopsis in Nord- und Ostsee Mnemiopsis Evolutionary Ecology	DFG	Prof. Reusch	01.03.2009 - 29.02.2012	140.450,00
18	RE 1108/13-1 Stickle- back Host-Parasit	Experimentelle Resistenz-Evolution und genetische Basis des Diplostomum-Stichling-Wirts - Parasitensystems - Stickleback Host-Parasit Coevolution	DFG	Prof. Reusch	01.08.2009 - 31.07.2012	220.070,00
19	RE 1108/7-1 (AOBJ 530335)	Detecting adaptive divergence in a widespread aquatic plant using genetic markers under selection and genome scans	DFG	Prof. Reusch	01.01.2009 - 31.12.2009	17.700,00
20	RE 1108/7-1 (AOBJ 554440)	Detecting adaptive divergence in a widespread aquatic plant using genetic markers under selection and genome scans (Fortsetzung)	DFG	Prof. Reusch	01.09.2008 - 31.08.2009	32.980,42
21	RE 1108/9-1, Seagrass- es	Do seagrasses feel the heat? - assessing the potential for microevolutionary change in a marine keystone plant in response to global	DFG	Prof. Reusch	01.09.2008 - 30.11.2009	36.750,00
22	RE 1108/9-2 Globale Erwärmung und Hit- zestresstoler	Globalerwärmung und Hitzestresstoleranz: Untersuchungen der genetischen und physiologischen Basis durch direktes Sequenzieren des Transkriptoms.	DFG	Prof. Reusch	01.11.2009 - 30.10.2010	53.800,00
23	SO 145/23-2 Aquashift	Match and mismatch between phyto-and zooplankton during spring succession: an experimental analysis with the Baltic Sea plankton	DFG	Prof. Sommer	01.11.2006 - 28.02.2010	205.380,00
24	SO 145/24-2, Meta Analysis 2 AQUASHIFT	AQUASHIFT: co-ordination, meta analysis	DFG	Prof. Sommer	01.11.2006 - 31.10.2009	267.700,00
25	WA 708/21-1	Interface Ecology: How do macroalgae control the quantity and composition of the bacterial epibioses at their surfaces?	DFG	Prof. Wahl	01.11.2008 - 31.10.2011	123.046,00
26	TP B02	TP B02: Reaktionen der Planktongemeinschaft auf Änderungen der Nährstoffstöchiometrie	DFG- SFB754	Prof. Sommer	01.01.2008 - 31.12.2011	99.000,00
27	03F0608A BIOACID TP 1.1.4	BIOACID - Biologische Auswirkungen der Ozeanversauerung Vorhaben: Schnelle evolutive Anpassung wichtiger Phytoplankton- arten an einen Ozean mit hohem CO ₂ -Partialdruck	BMBF	Prof. Reusch	01.09.2009 - 31.08.2012	121.519,00

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No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
28	03F0608A BIOACID TP 2.3.1	BIOACID - Biologische Auswirkungen der Ozeanversauerung Vorhaben: Auswirkungen auf Top-Prädatoren (Fische, Chephalopoden)	BMBF	Dr. Piatkowski	01.09.2009 - 31.08.2012	197.002,00
29	03F0608A BIOACID TP 4.1.2	BIOACID - Biologische Auswirkungen der Ozeanversauerung Vorhaben: Versauerungsstress: Ökologie früher Entwicklungsstadien in Zeiten des Globalen Wandels	BMBF	Prof. Wahl	01.09.2009 - 31.08.2012	114.390,00
30	A/09/02057 Stipendium Prof. SHOJI	Stipendium Prof. SHOJI	BMBF	Dr. Clemmensen-Bockelmann	13.08.2009 - 11.09.2009	1.990,00
31	IKYDA, D/07/134176 PPP Griechenland	Projektbezogener Personenaustausch mit Griechenland IKYDA 2008/2009	BMBF	Prof. Hanel	01.01.2008 - 31.12.2009	6.000,00
32	0608.410913 Schnäpel	Charakterisierung der Ökologie und Genetik des Schnäpels	LLUR (LANU)	Prof. Reusch	01.12.2009 - 31.07.2010	37.740,00
33	0608.450923.1 Bedeutung Blasantang	Untersuchung der Bedeutung des Blasantanges	LLUR (LANU)	Prof. Wahl	01.11.2009 - 30.11.2010	44.000,00
34	0608.46-246 Ulven-Lash	Ulven-Lash für das LANU	LLUR (LANU)	Prof. Wahl	01.11.2008 - 30.11.2009	46.000,00
35	0608.46-254 Künstliche Riffe	Ökologische Bedeutung künstlicher Riffe	LLUR (LANU)	Prof. Wahl	01.11.2008 - 30.11.2009	10.300,00
36	131-0608.46-216 Fucus Keimung	FUCUS-Keimung	LLUR (LANU)	Dr. Weinberger	01.03.2008 - 30.11.2009	58.000,00
37	131-0608.46-251 Neophyta Ostsee	Neophyta Ostsee	LLUR (LANU)	Dr. Weinberger	01.11.2008 - 30.10.2009	36.000,00
38	450924 -Dasya & Gracilaria	Untersuchungen von Dasya & Gracilaria für das Landesamt für Landwirtschaft, Umwelt und ländliche Räume des Landes Schleswig-Holstein	LLUR (LANU)	Dr. Weinberger	01.09.2009 - 30.11.2011	90.000,00
39	Fucus-Verbreitung 131-0608.46-195	Untersuchung der Fucus-Verbreitung für das LLUR	LLUR (LANU)	Prof. Wahl	01.10.2007 - 30.11.2010	140.600,00
40	LASH + GRAZER 4121.3-2008-217F	LASH + GRAZER für das Landesamt für Natur und Umwelt des Landes Schleswig-Holstein	LLUR (LANU)	Prof. Wahl	01.05.2008 - 30.04.2009	33.000,00
41	LLUR 1230608.450907-DECCA-Schriebe	„DECCA-Schriebe“ Digitalisierung von handfesten Seekarten und Überführung in ArcGIS	LLUR (LANU)	Dr. Rumohr, H.	01.04.2009 - 31.08.2009	3.000,00

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
42	LLUR 4121.3-2009-586F, WRRL Monitoring 2008	Auswertung von Proben für das WRRL-Monitoring aus dem Jahr 2008 und 2009	LLUR (LANU)	Prof. Sommer	01.09.2009 - 31.05.2010	36.500,00
43	Plaktonproben 2008 (WRRL)	Auswertung Planktonproben 2008 (WRRL)	LLUR (LANU)	Prof. Sommer	01.10.2008 - 30.04.2009	20.000,00
44	Seegrass 0608.450904	Bedeutung von Seegrasswiesen in der Ostsee	LLUR (LANU)	Prof. Reusch	01.05.2009 - 30.11.2010	98.350,00
45	Sterblichkeit von Aalen	Quantifizierung der fischereilichen, sonstigen anthropogen bedingten und natürlichen Sterblichkeit von Aalen im Einzugsgebiet der Schwentine (Schleswig-Holstein)	MLET	Prof. Hanel	01.09.2008 - 31.10.2011	328.168,62
46	BIOKATALYSE 2021-P24	Nachhaltige Biokatalyse auf neuen Wegen - BIODIVERSITÄT 2021: Isolierung, Charakterisierung und Produktion antimikrobieller (AMPs) mariner Organismen	MWV	Prof. Imhoff	01.07.2008 - 30.06.2011	450.000,00
47	KiWIZ II	KiWiZ II - Zentrum für marine Wirkstoffforschung im IFM-GEOMAR	MWV	Prof. Imhoff	01.01.2008 - 31.12.2010	2.997.000,00
48	NEMO TP 1	NEMO: „Nachhaltige Ernährung mit Marinen Organismen - NEMO“ als Teilprojekt der Maßnahme „Aufbau des Nationalen Kompetenzzentrum Marikultur	MWV	Dr. Waller	01.01.2009 - 31.03.2012	382.354,00
49	NEMO TP 2	NEMO (s.o) TP 2	MWV	Dr. Ueberschär	01.01.2009 - 31.03.2012	165.593,00
50	NEMO TP 3	NEMO (s.o) TP 3	MWV	Prof. Sommer	01.01.2009 - 31.03.2012	166.297,00
51	NEMO TP 4	NEMO (s.o) TP 4	MWV	Dr. Ueberschär	01.01.2009 - 31.03.2012	213.837,00
52	NEMO TP 5	NEMO (s.o) TP 5	MWV	Prof. Hanel	01.01.2009 - 31.03.2012	153.126,00
53	NEMO TP 6	NEMO (s.o) TP 6	MWV	Dr. Waller	01.01.2009 - 31.03.2012	303.014,00
54	NEMO TP 7	NEMO (s.o) TP 7	MWV	Dr. Froese	01.01.2009 - 31.03.2012	89.411,00
55	Subito-Reinsubstanz-Bibliothek	Aufbau einer Reinsubstanz-Bibliothek mariner Naturstoffe im Zusammenhang mit dem Europäischen Screening Port in Hamburg	MWV	Prof. Imhoff	01.11.2008 - 31.12.2011	1.819.859,00
56	211384 EPOCA	EPOCA - European Project on Ocean Acidification	EU	Dr. Clemmensen-Bockelmann	01.05.2008 - 30.04.2012	100.208,00

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No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
57	211384 EPOCA	EPOCA - European Project on Ocean Acidification	EU	Prof. Sommer	01.05.2008 - 30.04.2012	100.208,00
58	228224 MesoAqua	Network of leading MESOcosm facilities to advance the studies of future AQUAtic ecosystems from the Arctic to Mediterranean	EU	Prof. Sommer	01.01.2009 - 31.12.2012	244.900,00
59	4D4Life /238988	4D4Life:Distributed Dynamic Diversity Databases for Life: IN-FRA-2008-1.2.2: Scientific Data Infrastructure	EU	Dr. Froese	01.05.2009 - 30.04.2012	20.116,00
60	MARBEF (GOCE-CT2003-505446)	Marine Biodiversity and Ecosystem Functioning	EU	Dr. Piatkowski	01.02.2004 - 31.01.2009	101.444,00
61	MIRG-CT-2007-208801 IDA	IDA - Intraspecific Diversity and Adaptability of <i>Fucus vesiculosus</i> at range limits	EU	Prof. Wahl	01.10.2007 - 30.09.2011	100.000,00
62	PICOS 215056	PICOS - Privacy and Identity Management for Community Services	EU	Dr. Ueberschär	01.02.2008 - 31.01.2011	348.218,00
63	PIOF- GA-2008-221840 SeagrassTime	SeagrassTime: Trophic Cascades in Marine Ecosystems Marie Curie Outgoing Fellowship, Britta Munkes, Australien	EU	Prof. Sommer	01.08.2008 - 31.07.2011	236.637,45
64	PITN-GA-2008-215157 CarlMarO	CarlMaro - Calcification by Marine Organism Networks for Initial Training (ITN): Marie Curie/SP3 People	EU	Dr. Clemmensen-Bockelmann	01.10.2008 - 30.09.2012	194.585,49
65	PITN-GA-2008-215157 CarlMarO	CarlMaro - Calcification by Marine Organism Networks for Initial Training (ITN): Marie Curie/SP3 People	EU	Prof. Wahl	01.10.2008 - 30.09.2012	194.585,49
66	SPRATTUS 0252660	Towards the identification of fish stocks in European waters by means of the database FishTrace: The European sprat (<i>Sprattus sprattus</i>) as a model species	EU	Prof. Hanel	01.07.2007 - 28.02.2009	24.500,00
67	Uncover	Understanding the mechanisms of stock recovery	EU	Dr. Voss	01.03.2006 - 28.02.2010	240.882,00
68	GAME II 04-204	GAME - Aufbau eines Studierendenaustauschprogramms	Stiftung Mercator	Prof. Wahl	01.10.2005 - 31.01.2009	582.639,00
69	Drittmittelvertrag Springer Verlag	Beschäftigung einer Redaktionsassistentin für die Betreuung der Zeitschrift: Marine Biology (Herausgeber: Prof. U. Sommer)	Sonstige	Prof. Sommer	01.08.2007 - 31.12.2013	220.824,30
70	DTU-AQUA	Ichthyoplankton Analysis - Baltic Sea	Sonstige	Haslob, Holger	01.06.2009 - 31.12.2009	7.000,00
71	FeBeC TP 3 RNA/DNA & Otolith	Fehmarnbelt-Brücke: Modelluntersuchungen zur Signifikanz der Veränderungen durch den Brückenbau im Vergleich der Klimaänderungen der gesamten Ostsee	Sonstige	Dr. Petereit	01.01.2009 - 31.12.2010	64.000,00

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
72	FeBeC TP 3-Experimente	Fehmarnbelt-Brücke: TP3 Experimente	Sonstige	Dr. Petereit	01.10.2009 - 31.12.2010	187.950,00
73	GAME III	Internationales Ausbildungs- und Forschungsprogramm GAME III	Sonstige	Dr. Lenz	01.10.2008 - 31.01.2011	56.000,00
74	H1205218999915473 Doppelkarrierepaare	Sachbeihilfe im Rahmen des Aktionsprogramms Doppelkarrierepaare	Sonstige	Dr. Bockelmann	01.02.2009 - 31.01.2012	44.815,00
75	I/84 160 VW-Pipefisch	Evolutionary costs and benefits of trans-generational immune priming in a sexrole reversed fish	Sonstige	Prof. Reusch	01.05.2009 - 30.04.2012	241.500,00
						13.830.946,77

¹ Total Budget over the complete funding period

Appendices

Projects - Research Division 4: Dynamics of the Ocean Floor

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
1	BE 1041/20-2, FastSe-at 2	Fabric genesis, strength and physical properties of young Sediments, Ursa and Brazos-Trinity basins, Gulf of Mexico. A follow-up laboratory study of IODP Expedition 308	DFG	Prof. Behrmann	01.08.2008 - 31.07.2009	41.640,00
2	BE 1041/28-1 NeXT	Natural and experimental faulting of rocks, Nankai Accretionary Prism. Follow-up work to IODP Expeditions 315 and 316	DFG	Prof. Behrmann	01.10.2009 - 30.09.2010	45.900,00
3	CLUSTER - Detailed bathymetric map /76	CLUSTER: ISOS Zuschuss - Detailed bathymetric mapping of a large landslide deposit in ancient Lake Ohrid	DFG	Lindhorst, Katja	01.03.2009 - 31.12.2009	5.000,00
4	CLUSTER-2007/2CP07A46, /29 Model Macroalga	Submarine Hazards Junior Professor B4	DFG	Prof. Krastel	01.03.2008 - 30.10.2011	800.000,00
5	CLUSTER -2008/1 CP0810 OBS--Thermo/68	OBS-Thermo: co-registration of geophysical data at hydrothermal vents-a first step to a new ocean bottom observatory	DFG	Dr. Bialas	01.01.2009 - 31.12.2010	50.000,00
6	CLUSTER 2009/1 CP0912, Tsunami risk /84	Submarine landslides and associated tsunami risk: Combining observations and an integrated modelling approach	DFG	Prof. Krastel	01.11.2009 - 30.06.2011	51.000,00
7	CLUSTER Datenmanagement-Pool /77	Datenmanagement-Pool	DFG	Dr. Weinrebe	01.07.2009 - 31.10.2011	15.000,00
8	CLUSTER- Meeresboden-Ressourcen 1067/22	Meeresboden-Ressourcen, CLUSTER B3 Gruppe	DFG	Prof. Rüpke	01.12.2007 - 30.11.2010	750.000,00
9	CLUSTER-2007/2 CP07A53 Iceflow /33	CLUSTER: Iceflow activity revealed from submarine morphology - mapping glacial-morphological manifestations of retreating ice-front	DFG	Dr. Weinrebe	01.02.2008 - 31.03.2010	35.300,00
10	DE 572/22-3 Koordination	Koordinierungsarbeiten im Schwerpunktprogramm: Vom Mantel zum Ozean: Energie-, Stoff-, und Lebenszyklen an Spreizungsachsen	DFG	Prof. Devey	01.12.2007 - 30.11.2009	1.117.611,00
11	FR 947/11-2 Phreatoplinian Eruptions	Phreatoplinianische Eruptionen: Vergleichende Fallstudien zur Herleitung ihrer Mechanismen.	DFG	Dr. Freundt	01.09.2009 - 31.08.2010	91.550,00
12	FR 947/12-1, Volcano Rift	Spannungsinteraktion zwischen Riftzonen und instabilen Flanken an Ozeaninsel-Vulkanen	DFG	Dr. Freundt	01.12.2007 - 30.11.2009	95.466,00
13	FR947/11-1, Phreatoplinian eruptions	Phreatoplinianische Eruptionen: Vergleichende Fallstudien zur Herleitung ihrer Mechanismen	DFG	Dr. Freundt	01.04.2007 - 28.03.2009	161.150,00

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
14	Gr 1964/11-1 Hydro-Plumb	Geophysical imaging of the deep seated pluming system feeding and controlling the Logatchev Hydrothermal vent field at the Mid-Atlantic Ridge near 15°N	DFG	Dr. Grevemeyer	01.11.2007 - 31.10.2009	58.000,00
15	GR 1964/12-1 Topo-Med	Plate re-organization in the western Mediterranean: lithospheric causes and topographic consequences (TopoMed): Eurocores Programm: Topo-Europe	DFG	Dr. Grevemeyer	01.01.2009 - 31.12.2011	288.200,00
16	Ha 2100/12-1, Fogo-Barometrie	Aufstieg von Magmen historischer Eruption auf Fogo (Kapverden): Implikationen für Ausbruchsdynamik und Vulkangefahren	DFG	Dr. Hansteen	01.02.2007 - 31.03.2010	13.000,00
17	HA 2100/12-2, Fogo-Barometrie	Aufstieg von Magmen historischer Eruption auf Fogo (Kapverden): Implikationen für Ausbruchsdynamik und Vulkangefahren	DFG	Dr. Hansteen	01.03.2009 - 28.02.2010	8.000,00
18	HO 1833/17-1, WALVIS I	WALVIS I: Ar/Ar Geochronology and Geochemistry of existing samples from the Walvis Ridge and Rio Grande Rise	DFG	Prof. Hoernle	01.01.2009 - 30.06.2010	61.661,00
19	HO 1833/18-1, Ozeankruste Leg 106	Hoch-Präzisions Pb (double spike) and Sr-Nd-Hf-Isotopenvariation der oberen Ozeankruste des Leg 206 (Site 1256, östlicher Zentralpazifik)	DFG	Prof. Hoernle	01.09.2008 - 31.08.2010	141.800,00
20	Je 296/2-1, HYDRO-PLUMB	Geophysical imaging of the deep seated pluming system feeding and controlling the Logatchev Hydrothermal vent field at the Mid-Atlantic Ridge near 15°N	DFG	Dr. Jegen	01.11.2007 - 30.10.2009	31.000,00
21	KR 2222/10-1 Sahara-Slide	Morphologie und Evolution der Abreißkante des Sahara Rutschkomplexes, NW Afrika	DFG	Prof. Krastel	01.12.2009 - 31.05.2010	37.624,00
22	KR 2222/7-1, Macedonia/Albania	Bündel-Antrag Ohrid See: Sedimentary and neotectonic history of Lake Ohrid (Macedonia/Albania): aquisition and interpretation of new geophysical and geological data	DFG	Prof. Krastel	01.03.2008 - 28.02.2010	100.720,00
23	KR 2222/8-2 Andaman Sea, Thailand	MASS-ANDAMAN - Morphodynamics and Slope Stability of the Andaman Sea Shelf (Thailand)	DFG	Prof. Krastel	01.08.2009 - 31.07.2011	180.100,00
24	M80 Koordination	Meteor-Cruise M80/3 Geology and biology of seamounts in the Cape Verde Archipelago	DFG	Dr. Hansteen	01.06.2009 - 31.05.2010	116.049,00
25	M81/Koordination	M 81-Koordination: GEOTRACES Atlantik-Verteilung von Spurenelementen und deren Isotopen in der Wassersäule des tropischen Atlantiks als Funktion von Ozeanzirkulation, Staubeintrag und biogeochemischen Kreisläufen. CLIP- Entstehung der karibischen Flutbasalte	DFG	Dr. Werner	01.11.2009 - 31.12.2010	374.280,00
26	Pe1190/4-1, BIHYS	Biosignatures in precipitates and altered rocks at hydrothermal system of the Mid-Atlantic Ridge: organic geochemistry, microbiology and petrography	DFG	Dr. Petersen, S.	01.11.2007 - 30.10.2009	3.238,00

Appendices

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
27	RA 925/2-2 West Med	Imaging the western mediterranean margins: a key target to understand the interaction between deep and shallow processes	DFG	Prof. Flüh	01.08.2008 - 31.07.2009	35.950,00
28	TP A01	Darstellung von Tektonik, Fluidströme und Hangstabilität durch multiskalige Kartiermethoden	DFG-SFB574	Prof. Behrmann	01.07.2008 - 30.06.2012	371.500,00
29	TP A05	TP A05: Serpentinisierung in Subduktionszonen	DFG-SFB574	Dr. Grevemeyer	01.07.2008 - 30.06.2012	340.900,00
30	TP B05	TP: B05 - Diagenetische Prozesse in Forearc Sedimenten und der Volatileintrag in Subduktionszonen Systeme: Akkumulation, Transport und Freisetzung von Volatilen	DFG-SFB574	Dr. Hansteen	01.07.2008 - 30.06.2012	147.450,00
31	TP C02	TP C02: Zusammensetzung und Dynamik von Magmensystemen in Subduktionszonen: Magmenentstehung, zeitliche und räumliche Variationen	DFG-SFB574	Prof. Hoernle	01.07.2008 - 30.06.2012	430.100,00
32	TP C04	TP C04 - Krustale Einflüsse auf das Volatilen-Inventar differenzierender Arc-Magmen und Konsequenzen für Vulkangefahren	DFG-SFB574	Dr. Freundt	01.07.2008 - 30.06.2012	431.600,00
33	TP C05	TP C05. Modellierung von Klimaeffekten/Rückkopplungen und Subduktionsprozessen	DFG-SFB574	Prof. Rüpke	01.07.2008 - 30.06.2012	126.870,00
34	TP Z01	TP Z01: Zentrale Aktivitäten und Logistik	DFG-SFB574	Prof. Hoernle	01.07.2008 - 30.06.2012	1.155.700,00
35	03G0687A SUGAR TP A1.1	Verbundprojekt: SUGAR-Submarine Gashydrat-Ressourcen; SUGAR-A:Submarine Gashydrat-Lagerstätten als Deponie für die CO ₂ -Sequestrierung; Vorhaben. Prospektion und Exploration von Gashydrat-Lagerstätten - Sonderprogramm GEOTECHNOLOGIEN	BMBF	Dr. Weinrebe	01.05.2008 - 30.04.2011	356.423,00
36	03G0191A, SO 191-NEW VENTS	O 191 - NEW VENTS, -New Zealand Cold Vents - Geophysikalische, geochemische und biologische Untersuchungen an Cold Vents zu der Verbindung mit Gashydraten und des Einflusses auf lokale, regionale und globale Methan- und Kohlenstoff-Kreisläufe	BMBF	Dr. Bialas	01.10.2006 - 31.03.2009	391.104,00
37	03G0193A -SO 193 - MANIHIKI	SO 193 - MANIHIKI. Temporal, Spatial and Tectonic Evolution of Oceanic Plateaus	BMBF	Prof. Hoernle	01.03.2007 - 30.06.2009	324.837,00
38	03G0195A - TOTAL	SO 195 TOTAL: Untersuchung zum seismischen Risikopotential verursacht durch Erdbeben in Subduktionszonen	BMBF	Dr. Grevemeyer	01.04.2007 - 30.06.2010	407.808,00
39	03G0199 A- SO 199 CHRISP	SO 199 CHRISP: Christmas Island Seamount Province and the Investigator Ridge: Age and Causes of Intraplate Volcanism and geodynamic Evolution of the South-Eastern Indian Ocean	BMBF	Prof. Hoernle	01.05.2008 - 30.06.2010	274.959,00

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
40	03G0203A SO 203: Woodlark	SO 203-WOODLARK- Magmengenese, Tektonik und Hydrothermalismus entlang der propagierenden Spreizungsachse im Woodlark Becken (SW-Pazifik)	BMBF	Prof. Devey	10.07.2009 - 31.12.2011	361.379,00
41	03G0646G Exupery	Verbundprojekt FW: EXUPERY; Vorhaben: Bodenbasierte Gasfluss-Messungen-Sonderprogramm GEOTECHNOLOGIEN	BMBF	Dr. Hansteen	01.07.2007 - 30.10.2010	33.900,00
42	03G0672A KALMAR II TP3	KALMAR II TP 3 - Kurile Kamchatka an Aleuten Marginal Sea Island Arc Systems: Geodynamic and Climate Interaction in Space and Time	BMBF	Prof. Hoernle	01.01.2009 - 31.12.2011	165.652,00
43	03G0687A SUGAR TP2.1	Verbundprojekt: SUGAR-Submarine Gashydrat-Ressourcen; SUGAR-A:Submarine Gashydrat-Lagerstätten als Deponie für die CO ₂ -Sequestrierung; Vorhaben. Prospektion und Exploration von Gashydrat-Lagerstätten - Sonderprogramm GEOTECHNOLOGIEN	BMBF	Dr. Jegen	01.05.2008 - 30.04.2011	167.191,00
44	03G0687A SUGAR TP 2.1	Verbundprojekt: SUGAR (s.o.)	BMBF	Dr. Bialas	01.05.2008 - 30.04.2011	1.177.017,00
45	03G0687A SUGAR TP Z	Verbundprojekt: SUGAR (s.o.)	BMBF	Dr. Bialas	01.05.2008 - 30.04.2011	174.255,00
46	03G192C MANGO - SO 192	SO 192 - MANGO: Marine Geowissenschaftliche Untersuchungen zum In- und Output der Kermadec Subduktionszone	BMBF	Prof. Kopp	01.01.2007 - 30.04.2009	237.086,00
47	Dr. Wu-Cheng CHI A/08/01482-R.423	Forschungsaufenthalt Dr. Wu-Cheng Chi 06/09-08/09	BMBF	Prof. Berndt	01.06.2009 - 30.08.2009	3.830,00
48	KALMAR, TP3A	KALMAR - Kurile-Kamchatka an Aleuten Marginal Sea-Island Systems:TP3A: Vulkanische und magnetisch Entwicklung der Kamchatka-Aleuten-Triple-Junction in Raum und Zeit	BMBF	Prof. Hoernle	01.10.2006 - 30.09.2009	212.246,00
49	NZL 08/028 Neuseeland	Internationale Zusammenarbeit in Bildung und Forschung mit Neuseeland: Kombinierte seismische Interpretation über das Raukumara Becken und die südliche Kermadec Subduktionszone	BMBF	Dr. Scherwarth	01.09.2008 - 31.08.2010	3.426,00
50	TEWS 03TSU01	Tsunami-Frühwarnsystem zur Finanzierung von Ocean-Bottom-Units	BMBF	Prof. Flüh	01.04.2005 - 31.03.2010	4.325.288,53
51	NOVAC (18354 GOCE)	Network for Observation of Volcanic and Atmospheric Change Specific Target Research Project	EU	Dr. Hansteen	01.10.2005 - 31.03.2010	79.200,00
52	THALES WAS RIGHT (029080)	Transients in the Hellenic and Antilles Loci of Earthquakes of European Subduction Water Activity Structure and Seismic Risk Illuminated by Geophysical High Technology	EU	Prof. Flüh	15.05.2006 - 14.04.2010	393.000,00

Appendices

No.	Shorttitle / Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
53	BUL/1073011, Stipendium Dekov	Prof. Dr. Vesselin Mitev Dekov, Stipendium: Mineralogy and geochemistry of a new seafloor hydrothermal deposit at a slow-spreading centre with thickened oceanic crust: the Lilliput feld, Mid-Atlantic Ridge	AvH	Dr. Petersen, S.	01.07.2009 - 30.09.2009	9.750,00
54	IODP-SPC- Treff	Unterstützung des IODP-SPC-Treffens 25.-27.8.09 durch das Institute de Physique du Globe de Paris	Sonstige	Prof. Behrmann	25.08.2009 - 27.08.2009	3.500,00
55	Luftpolsteranlage	Ausleihe der Luftpolsteranlage an das National Oceanography Center in Southampton für die Expedition SO200	Sonstige	Prof. Flüh	01.01.2009 - 31.12.2009	75.000,00
56	PETROBAR-IPY	Ausleihe Ocean Bottom Seismometer in der Barents See, Norwegen	Sonstige	Prof. Flüh	01.07.2008 -	80.000,00
57	PICASSO	Ausleihe von 16 OBS für den Einsatz in der Alborean Sea.im Rahmen von PICASSO: Program to Investigate Convective Alboran Sea System Overturn.	Sonstige	Dr. Jegen	01.08.2009 - 31.12.2009	40.000,00
58	TopoScandiaDeep	Ausleihe Ocean Bottom Seismometer im More-Becken Norwegen	Sonstige	Prof. Flüh	01.05.2009 - 30.06.2010	50.000,00
						17.060.210,53

¹ Total Budget over the complete funding period

Projects - Central Facilities

No.	Shorttitle/Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
1	CLUSTER- Database System 2009 /90	Investing in a sophisticated database system for an advanced data management infrastructure in Kiel	DFG	Dr. Schirnack	01.12.2009 - 31.12.2009	43.500,00
2	CLUSTER OH Allgemein	CLUSTER Overhead Allgemein	DFG	Prof. Herzig	01.01.2007 - 31.10.2011	906.750,00
3	DFG Programm-Pauschale	DFG Programmpauschale für Sachbeihilfen 20 %	DFG	Prof. Herzig	01.01.2008 -	1.049.519,00
4	Schm 250/83-1, Lake Van	Environmental response to climatic and volcanic events in NE Anatolia during the last 20.000 years based on annually laminated sediments from Lake Van Schwerpunktprogramm „Internationales Kontinentales Bohrprogramm (ICDP)	DFG	Prof. Schmincke	01.02.2007 - 31.01.2009	104.600,00
5	Schm 250/86-1 Lake Van Anatolia	Evolution of highly explosive Nemrut and Süphan volcanoes (NE Anatolia) and Lake Van basin during the past 500.000 years	DFG	Prof. Schmincke	01.05.2009 - 28.02.2010	70.350,00
6	Schm 250/84-1, Impact of volcanic climate forcing	Impact of volcanic climate perturbation caused by Laacher See eruption onto the proximal environment and terminal eruptive mechanisms	DFG	Prof. Schmincke	01.03.2008 - 28.02.2009	19.990,00
7	Schm 250/84-2 Impact of volcanic climate 2	Impact of volcanic climate perturbation caused by Laacher See eruption onto the proximal environment and terminal eruptive mechanisms	DFG	Prof. Schmincke	01.05.2009 - 30.04.2010	21.387,00
8	CHN 06/14 Masterstudiengang 3 Folgeantrag	Durchführung eines gemeinsamen Masterstudienganges Meereswissenschaften unter Beteiligung der Universitäten Kiel und Bremen in Deutschland und der Ocean University of China, Qingdao	BMBF	Prof. Herzig	01.10.2006 - 30.09.2009	331.154,00
9	KDM/TEWS 03TSU01	Tsunami-Frühwarnsystem zur Finanzierung von Ocean-Bottom-Units	BMBF	Prof. Herzig	01.04.2005 - 31.12.2008	533.938,00
10	JIBA -Energieprojekt	Integration of FTG and reflection seismic data in existing joint inversion algorithm tomography, gravity and MT data	IPP	Dr. Jegen	01.01.2008 - 31.01.2011	741.900,00
11	Clathrat	Erdgasgewinnung aus natürlichen Gashydraten durch CO ₂ -Injektion in marine Sedimente	RWE-DEA Clathrat	Dr. Haeckel	01.10.2007 - 31.12.2010	1.075.000,00
12	WND	WND- West Nil Delta	RWE-DEA WND	Dr. Brückmann	01.01.2007 - 31.12.2010	5.693.000,00
13	WND - Overhead	Energieprojekt - West Nil Delta Overhead/Management	RWE-DEA WND	Dr. Brückmann	01.01.2007 - 31.12.2010	290.000,00
14	Fluid- und Gasaustritte in der SDNS	Fluid- und Gasaustritte am Meeresboden der Südlichen Deutschen Nordsee (SDNS)	Wintershall SDNS	Dr. Linke	01.10.2007 - 30.09.2010	2.631.000,00

Appendices

No.	Shorttitle/Framework	Research theme	Funding Agency	Lead PI	Funding period	Budget ¹
15	Fluid- und Gasaustritte in der SDNS OV Linke	Fluid- und Gasaustritte am Meeresboden der Südlichen Deutschen Nordsee (SDNS)	Wintershall SDNS	Dr. Linke	01.10.2007 - 30.09.2010	248.100,00
16	TIMBA	Towards the integration of multidisciplinary geophysical data in a shelf area - the Büsum-Nord area as an example	Wintershall TIMBA	Dr. Jegen	01.11.2007 - 31.10.2010	2.896.400,00
17	Energieprojekte OV Herzig	Energieprojekte Overhead Prof. Herzig	Sonstige Energie-Pr.	Prof. Herzig	01.10.2007 - 31.12.2010	741.000,14
18	Fokoop. Mexico 3.4Fokoop-DEU/1025202	Unterstützung der Institutspartnerschaft mit Prof. Siebe, Instituto Geofisica, Universidad Nacional Autonoma de Mexico, Coyoacan, Mexico	AvH	Prof. Schmincke	01.07.2007 - 30.06.2010	48.550,00
19	JAGO	Einnahmen aus Vercharterung JAGO	JAGO	Dr. Hissmann	01.07.2006 - 31.12.2049	198.000,00
20	Allgem. Forschungstätigkeiten	Unterstützung Wissenschaftler	Sonstige	Prof. Herzig	01.01.2006 - 31.12.2049	12.000,00
21	Gastforscheraufenthalt	Förderung im Rahmen der Exzellenz-Initiative der Prof. Dr. Werner Petersen-Stiftung von renomierten Wissenschaftlern	sonstige	Prof. Herzig	01.11.2009 - 31.12.2010	100.000,00
22	Ocean Award	Ocean Research Scholarships Elisabeth-Mann-Borgese-Meerespreisgeld 2009 Prof. Joe Borg Zusammenarbeit mit IFREMER und NOCS	Sonstige	Prof. Herzig	01.12.2009 - 31.12.2010	20.000,00
23	Öffentlichkeitsarbeit TP 2	Ausstellungskasten an der Kiellinie 2010 Filmprogramm Future Ocean Juni/Juli 2007 Gesamt 2.776,00 Eigenanteil 924,00	Sonstige	Dr. Hoffmann-Wieck	01.01.2007 - 31.12.2010	6.852,00
						17.782.990,14

¹ Total Budget over the complete funding period

4. Ship Statistics & Expeditions

Table 4.1: Partners on IFM-GEOMAR research vessels, 2005-2009

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' (NERC, IFREMER, NIOZ, CSIC, IMR), with the FWG, and on "LITTORINA" within the technical agreement with 3L-ELAC (since 2003). Student courses of the University of Kiel, CAU; days for mobilization and demobilization included in total ship days; maintenance and shipyard separately

Ship	User	Days used				
		2005	2006	2007	2008	2009
"POSEIDON"	IFM-GEOMAR	88	14	68	35	123
	University of Kiel	0	0	0	11	0
	Pool partners	45	114	122	104	97
	National partners	25	35	0	59	0
	Barter cruises	23	82	11	0	0
	Charter days at sea	50	37	20	19	0
	Student courses CAU	0	0	0	10	0
	Transfer cruises	28	16	36	31	15
	Mob/demob			35	34	37
	Total ship days	259	298	292	305	272
	Maintenance			56	54	80
	Days off			17	9	13
	"ALKOR"	IFM-GEOMAR	96	142	95	152
University of Kiel		1	16	0	0	2
Pool partners		61	17	56	64	112
National partners		0	0	0	10	0
Barter cruises		0	0	0	0	0
Charter days at sea		39	37	48	23	0
Student courses CAU		44	52	36	20	6
Transfer cruises		4	3	4	2	5
Mob/demob				33	40	52
Total ship days		245	267	269	311	300
Maintenance				59	36	50
Days off				34	19	15

Ship	User	Days used					
		2005	2006	2007	2008	2009	
"LITTORINA"	IFM-GEOMAR	55	30	23	91	61	
	University of Kiel	89	96	63	57	98	
	Pool partners	0	3	0	0	4	
	National partners	9	0	0	0	0	
	Barter cruises	8	9	8	9	14	
	Charter days	0	0	0	0	0	
	Student courses CAU	12	15	14	34	15	
	Mob/demob			9	22	44	
	Total ship days	173	153	117	213	236	
	Maintenance			37	38	18	
	Days off			211	115	111	
	"POLARFUCHS"	IFM-GEOMAR	123	114	182	156	163
		University of Kiel	0	13	15	12	28
Pool partners		0	15	4	0	0	
National partners		2	0	5	9	0	
Barter cruises		1	0	0	3	2	
Charter days		0	0	0	0	0	
Student courses CAU		0	0	5	5	5	
Total ship days		126	142	211	185	198	
Maintenance				22	63	21	
Days off				132	118	146	

Appendices

Table 4.2: Major expeditions 2009

Vessel	Date	Area	Project	PI
METEOR	27.12.2008 - 24.01-2009	östlicher subtropischer Pazifik	SFB754	M. Frank
POSEIDON	26.01. - 12.02.	subtropischer Ostatlantik	Vikki	S. Duggen
METEOR	27.01. - 18.02.	östlicher subtropischer Pazifik	SFB754	L. Stramma
POSEIDON	15.02. - 12.03.	Mittelatlantischer Rücken	MARRVI	S. Duggen
METEOR	21.02. - 28.03.	Karibik	Caribbean Paleoceanography	J. Schönfeld
SFB 574 C2 (L ¹)	15.02. - 15.03.	Chile / Argentinien	SFB 574 C2	K. Hoernle
TRANSDRIFT XV (L ¹)	15.03. - 29.04.	Laptev See	Laptev See	H. Kassens
POSEIDON	20.03. - 07.04.	Mittelatlantischer Rücken	SPP1144	F. Karbe
METEOR / Kiel 6000 / ABYSS	01.04 - 11.05.	Mittelatlantischer Rücken	SPP1144	R. Seifert (HH)
ALKOR	07.04. - 19.04.	Zentrale Ostsee	RESTOCK	C. Petereit
POLARSTERN	11.04. - 10.05.	Zentraler Atlantik	Verbundprojekt Atlantik OCEA-NET	W. Zenk
METEOR	15.05. - 13.06.	Südatlantik, Mittelatlantischer Rücken	Future Ocean	S. Krastel
ALKOR	16.05. - 01.06.	Zentrale Ostsee	RESTOCK	J. Schmidt
BRAVEHEART /JAGO	06.06. - 29.06	Westlicher Pazifik	Historische Meeresspiegel	C. Dullo
POSEIDON	15.07. - 04.08.	Nildelta	WND	J. Bialas
CELTIC EXPLORER	26.07. - 14.08.	Südliche und zentrale Nordsee	SDNS	P. Linke
ALKOR	29.07. - 11.08.	Zentrale Ostsee	RESTOCK	H. Haslob
SONNE	03.08. - 08.10.	Nordwestlicher Pazifik, Ochotskisches Meer	KALMAR	C. Dullo
POSEIDON	07.08. - 18.08.	Alboransee	TOPO-MED	I. Gevemeyer
POSEIDON	11.09. - 01.10.	Norwegischer Schelf	Kaltwasserkorallen	A. Form
ALKOR	18.09. - 05.10.	Gotlandbecken	SFB754, HYPOX	O. Pfannkuche
SONNE	09.10. - 25.10.	westlicher Pazifik	TRANSBROM	B. Quack

Vessel	Date	Area	Project	PI
POLARSTERN	16.10. - 30.11.	Zentraler Atlantik	OCEANET	A. Macke
METEOR	26.10. - 23.11.	Tropischer Atlantik	BMBF Verbundprojekt ATLANTIK	P. Brandt
SONNE	26.10. - 07.12.	südwetl. Pazifik	WOODLARK	C. Devey
ALKOR	18.11. - 03.12.	Gotlandbecken	EPOCA	U. Riebesell
METEOR	26.11. - 23.12.	Subtropischer Ostatlantik	SFB754	D. Wallace

L¹: Land based expeditions

Table 4.3: Days used by IFM-GEOMAR (chief scientists) on Global Ocean Research Vessels

A total of 29 cruise days on MERIAN were cancelled due to technical until 2008; they are partly replaced by charter days on ATALANTE in 2007 (1 leg, 30 days) and in 2008 (3 legs, 71 days).

Research Vessel	Ship days used by IFM-GEOMAR			
	2006	2007	2008	2009
POLARSTERN	0	24	32	76
METEOR	96	33	39	173
SONNE	51	140	93	99
MERIAN plan / conducted	80/80	104/32	80 / 51	0
Barter Ships	0	40	60	0
Charter Ships plan / conducted	0	0 / 30	0 / 71	0
Sum	227	341 / 299	304 / 346	348

5. Publications

5.1 Books (Authorship) (4)

- Latif, M.**, 2009: Klimawandel und Klimadynamik. UTB Ulmer, Stuttgart, 220 pp.
- Latif, M.**, 2009: Climate Change: The Point of No Return. Haus Pub, Schweiz, Sustainability Project, 260 pp.
- Schmincke, H.-U.**, 2009: Vulkane der Eifel: Aufbau, Entstehung und heutige Bedeutung. Spektrum Akademischer Verlag, Heidelberg, Spektrum Sachbuch, VIII, 160 pp.
- Wahl, M.**, 2009: Marine Hard Bottom Communities: patterns, dynamics, diversity, and change. Springer, Berlin, Ecological Studies, 206, 420 pp.

5.2 Books (Editorship) (3)

- Clemmesen, C.**, Malzahn, A.M., Peck, M.A. and **Schnack, D.**, 2009: Advances in Early Life History Study of Fish. ICM (CSIC), Barcelona, Spain, Scientia Marina, 73, S1, 222 pp.
- Kassens, H.**, Lisitzin, A.P., Thiede, J., Polyakova, Y.I., Timokhov, L.A. and Frolov, I.E., 2009: Sistema morya Laptevyykh i prilgayushchikh morey Arktiki: sovremennoye sostoyaniye i istoriya razvitiya (System of the Laptev Sea and the Adjacent Arctic Seas: Modern Environments and History of Development). MSU Press, Moscow, 608 pp.
- Kinoshita, M., Tobin, H., Ashi, J., Kimura, G., Lallement, S., Sreaton, E.J., Curewitz, D., Masago, H., Moe, K.T., **Kitamura, Y.**, **Behrmann, J.H.** and Expeditions 314/315/316 Scientists, 2009: NanTroSEIZE Stage 1: Investigations of Seismogenesis, Nankai Trough, Japan: Expeditions 314, 315, and 316 of the Riser Drilling Platform from and to Shingu, Japan, Sites C0001-C0006, 21

September-15 November 2007, and Sites C0001 and C0002, 16 November-18 December 2007, and Sites C0004 and C0006-C0008, 19 December 2007-5 February 2008. IODP, Washington, DC, USA, Proceedings of the Integrated Ocean Drilling Program, 314/315/316, 203 pp.

5.3 Book Contributions (30)

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5.6 University Publications

PhD Thesis (13)

Breithaupt, P., 2009: The impact of climate change on phytoplankton - bacterioplankton interactions. Dissertation, 199 pp.

Dannowski, A., 2009: Processes of magmatic and tectonic accretion of oceanic lithosphere at mid-ocean ridges - Constraints from a seismic refraction study at the Mid-Atlantic Ridge near 21.5° N. Dissertation, 168 pp.

Freing, A., 2009: Production and emissions of oceanic nitrous oxide. Dissertation, 115 pp.

Hiebenthal, C., 2009: Sensitivity of *A. islandica* and *M. edulis* towards environmental change: a threat to the bivalves - an opportunity for palaeo-climatology? Dissertation, 137 pp.

Jakob, E., 2009: Monitoring of parasite and virus infections of the European eel, *Anguilla anguilla*, in northern Germany. Dissertation, 123 pp.

Jiang, Y., 2009: Systematic Research on Actinomycetes Selected According to Biological Activities. Dissertation, 114 pp.

Langlois, R., 2009: Distribution and Abundances of Diazotrophs and Microbial Nutrient Limitations in the North Atlantic Ocean. Dissertation, 169 pp.

Petereit, C., 2009: Influence of temperature and salinity on sprat (*Sprattus sprattus* L.) eggs and yolk sac larvae from contrasting environments. Dissertation, 104 pp.

Schade, N., 2009: Atmosphärenbedingte Erhöhungen der solaren Einstrahlung. Dissertation, 139 pp.

Schepanski, K., 2009: Characterising Saharan Dust Sources and Export using Remote Sensing and Regional Modelling. Dissertation, 144 pp.

Schneider von Deimling, J., 2009: Hydroacoustic and geochemical traces of marine gas seepage in the North Sea. Dissertation, 115 pp.

Wahl, S., 2009: The Tropical Atlantic SST bias in the Kiel Climate Model. Dissertation, 116 pp.

Wohlens, J., 2009: Effects of sea surface warming on elemental cycling in a pelagic system. Dissertation, 125 pp.

Diploma / Master (32)

Bach, L., 2009: Calcification and photosynthesis of the coccolithophore *Emiliana huxleyi* cultured under a broad range of carbonate chemistry conditions. Diplomarbeit, 109 pp.

Bergmann, K., 2009: Spurengasmessungen an der Zeitserienstation Boknis Eck. Diplomarbeit, 75 + XIII pp.

Boczek, J., 2009: Der Rupel des Braunkohleabbaus Amsdorf, Sachsen-Anhalt. Diplomarbeit, 116 pp.

Büdenbender, J., 2009: Impacts of ocean acidification on the calcification of arctic coralline red algae (*Lithothamnion spec.*). Diplomarbeit, 90 pp.

David, K., 2009: Aspekte der chemischen Verteidigung gegen Fouling bei Makroalgen. Diplomarbeit, 61 pp.

Deppe, J., 2009: Geochemical variations along the Gough-Tristan seamount tracks. Diplomarbeit, 96 pp.

Flöter, J., 2009: A simple model for the global surface warming pattern. Diplomarbeit, 72 pp.

Greife, I., 2009: Latitudinal distribution abundance and activity of marine diazotrophs. Diplomarbeit, 91 pp.

Hand, R., 2009: Ozean-Atmosphären-Wechselwirkungen in der Golfstromregion. Diplo-

marbeit, 71 pp.

Hanschmann, T., 2009: Wolken-Strahlungseffekte beobachtet mit SEVIRI auf Meteosat Second Generation. Diplomarbeit, 147 pp.

Heuer, L., 2009: The Evolution of Neodymium, Lead and Hafnium Isotopes in the Southwest Indian Ocean: Ferromanganese Crust Records of the past 20 Million Years. Diplomarbeit, 41 pp.

Kemmler, N., 2009: Model based investigations of a Spring Bloom in Mesocosms under Elevated Temperatures. Diplomarbeit, 108 pp.

Kraft, S., 2009: Stable Isotopes and Deposition of Pteropod Shells (*Limacina helicina*) in the Nordic Seas during the Last Glacial Period (MIS 3 to 5). Diplomarbeit, 59 pp.

Kramer, A., 2009: Etablierung von zellkulturbasierten Assays zur Untersuchung der Zytotoxizität bioaktiver Substanzen aus marinen Mikroorganismen. Diplomarbeit, FH / CAU, Flensburg / Kiel, 90 pp.

Krome, C., 2009: pH-, calcium homeostasis and hematology in a high pCO₂-environment in the eastern oyster *Crassostrea virginica*. Diplomarbeit, 78 pp.

Meyer, S., 2009: Entwicklung einer Methode zur Messung von Hydrazin in Seewasser. Diplomarbeit, 58 pp.

Mohr, V., 2009: Solare Strahlung und deren Parametrisierungen in polaren Regionen. Diplomarbeit, 101 pp.

Möller, S., 2009: Die Struktur der Tonga Subduktionszone bei 24°S - Modellierung und Ergebnisse seismischer Refraktions- und Weitwinkelmessungen. Diplomarbeit, 107 pp.

Noever, C., 2009: Diet of metazoan parasites of deep-water fishes of the Azores. Diplomarbeit, 93 pp.

Oschmann, Y., 2009: Wie beeinflussen

einzelne und kombinierte Umweltstressoren die Verteidigung gegen Konsumenten in *Fucus vesiculosus*? Diplomarbeit, 68 pp.

Reiser, S., 2009: Effects of ozone on welfare indicators of juvenile turbot (*Psetta maxima*, L.) in marine recirculation aquaculture systems. Diplomarbeit, 101 pp.

Ruzitis, E., 2009: Alterationsprozesse in Schwereelotkernen des Logatchev Hydrothermalfeldes, 14°45'N, Mittelatlantischer Rücken. Diplomarbeit, Universität Kiel, 73 pp.

Sarpe, D., 2009: Bioenergetics of Gelatinous Plankton. Diplomarbeit, 47 pp.

Schlundt, M., 2009: Machbarkeitsstudie zur Bestimmung turbulenter Flüsse auf FS Polarstern im Rahmen von OCEANET. Diplomarbeit, 103 pp.

Schmidt, A., 2009: Rekonstruktion spätquartärer Umweltbedingungen im Bereich des Alpha-Rückens (zentraler Arktischer Ozean) anhand mariner Proxies. Diplomarbeit, 88 pp.

Silber, J., 2009: Stimulation und chemische Analyse der Sekundärmetabolitproduktion in marinen Pilzen. Diplomarbeit, Univ. Rostock, Kiel, 124 pp.

Simon, S., 2009: Sekundärmetabolit-Produktion in verschiedenen Xenorhabdus-Arten. Diplomarbeit, 92 pp.

Simon, T., 2009: Interne Variabilität in einem stochastisch angetriebenen, advektiven Ozeanmodell. Diplomarbeit, 91 pp.

Stratil, S., 2009: Do herbivores induce defenses in macroalgae? Diplomarbeit, 63 pp.

Strehz, A., 2009: Twentieth century temperature variability: externally forced and internally generated. Diplomarbeit, 97 pp.

Tessmann, M., 2009: Trophic transfer of persistent organic pollutants in the benthic food web of Kongsfjorden, Spitsbergen. Diplomarbeit, 109 pp.

Trübenbach, K., 2009: Effects of ocean acidification on key physiological parameters in the green sea urchin *Strongylocentrotus droebachiensis*. Diplomarbeit, 74 pp.

Vollstaedt, H., 2009: The Phanerozoic $\delta^{88/86}\text{Sr}$ record of marine carbonates. Diplomarbeit, 41 pp.

Westhues, A., 2009: Massive sulfides drilled at a submarine volcanic complex associated with an island arc, Palinuro volcanic complex, Tyrrhenian Sea, Italy. Masterarbeit, Universität Münster / IFM-GEOMAR, Kiel, 76 pp.

Wittke, F., 2009: Ozean/Atmosphären-Wechselwirkung und N_2O -Emissionen in der Küstenauftriebsregion vor Mauretanien. Diplomarbeit, 88 pp.

External Diploma / BSc Theses

Vereshchagina, V.B., 2009: Indicators of sustainable development of offshore oil-and-gas extraction on the shelf of the Northern Seas. Dissertation, Universität Bremen, MSc Programme for Applied Polar and Marine Sciences, Bremen, 49 pp.

6. Scientific & Public Presentations

6.1 Invited Presentations (102)

Abegg, F., 2009: Leibniz Institute of Marine Sciences (IFM-GEOMAR). EUROFLEETS Kick-Off Meeting, Paris, 22.09.2009.

Abegg, F., Devey, C.W., et al., 2009: Applying New Underwater Technologies to the Study of Volcanic and Hydrothermal Processes in the Atlantis II Deep. Workshop for Jeddah Transect Project between FMS, King Abdulaziz University (Saudi Arabia) and IFM-GEOMAR/Kiel University (Germany). Jeddah / Saudi Arabia, 07.11.2009

Abegg, F., 2009: ROV KIEL 6000: a large size deep diving platform. International group for the search for the AF447 wreckage by Bureau d'Enquêtes et d'Analyses pour la sécurité de l'aviation civile (BEA), Paris, 10.11.2009

Bauch, H., 2009: Paleoenvironmental change of the North Siberian margin since the last Glacial. Duke University, Division of Earth and Ocean Sciences, Durham, NC, USA, 06.02.2009.

Bauch, H., 2009: Impact of changing sea levels on North Siberian shelf environments during the late Quaternary. Conoco Phillips Colloquium, Texas A&M University, Department of Geology and Geophysics, College Station, Texas, USA, 12.03.2009.

Bauch, H., 2009: Holocene water mass and sea-ice drift patterns in the Subarctic Nordic Seas. US Geological Survey, Reston, VA, USA, 30.04.2009.

Bauch, H., 2009: Arctic shelf records: implications for changes in Arctic sea level, river runoff and submarine permafrost since the last Glacial. US Geological Survey Global Change Seminar Series, Reston, VA, USA, 29.04.2009.

Bauch, H. and Kandiano, E., 2009: Atmospheric controls on Holocene water mass and sea-ice drift patterns in the Subarctic Nordic Seas. Insti-

tut für Geowissenschaften, Johannes-Gutenberg-Universität, Mainz, 01.10.2009.

Biaostoch, A., 2009: Agulhas Leakage: The Neglected Player in the Variability of the Atlantic Meridional Overturning Circulation. IAPSO Assembly, Montreal, Canada, 19.-24.07.2009.

Brandt, P., Hormann, V., Fischer, J., Stramma, L., Visbeck, M. and Funk, A., 2009: Circulation and oxygen distribution in the central tropical Atlantic south of Cape Verde. Tropical Atlantic Meeting, Toulouse, France, 03.02.2009.

Croot, P.L., 2009: Redox cycling of iron and iodine in the Peruvian OMZ. IMARPE, Callao, Peru, 27.01.2009.

Devey, C., 2009: Doing science on the seafloor. University Buea, Cameroon. 06.02.2009.

Devey, C., 2009: Geländearbeit am Meeresboden. Geokolloquium, Universität Mainz, 02.07.2009.

Devey, C., 2009: Entstehung der Ozeankruste. MARUM, ECORD Summer School, Universität Bremen, 03.09.2009.

Dengler, M., 2009: Observing the ocean during FS Meteor Cruise M80/1. NAT-Working Symposium, Instituto Nacional Desenvolvimento das Pescas (INDP), Minelo, Cape Verde, 23.11.2009.

Dengler, M., 2009: On the impact of oceanic turbulence on tropical climate variability: Upper ocean diapycnal heat flux and mixing processes in the central and eastern tropical Atlantic. Symposium Marine Umweltphysik, Deutsche Physikalische Gesellschaft e.V., Hamburg, 04.03.2009.

Dengler, M., 2009: On the dichotomy of equatorial mixing: Observations, fluxes and parameterization. TAO Seminar, School of Earth and Ocean Sciences, University of Victoria, Victoria, BC, Canada, 11.08.2009.

Dullo, W.-C., 2009: Global Change: Korallen und Schwämme im Zeugenstand. Festkolloquium

anlässlich des 60. Geburtstag von Prof. Dr. Helmut Keupp, Freie Universität Berlin, Berlin, 11.11.2009.

Dullo, W.-C., 2009: Cold water corals: physical oceanography and environmental conditions. Magellan Workshop, Fribourg, Switzerland, 22.01.2009.

Eisenhauer, A.: Divalent cation isotope fractionation during organic and inorganic precipitation of calcium carbonate, CALMARO meeting, National Museum, Paris, Frankreich, 13.010.2009

Eisenhauer, A.: Stable Sr isotope fractionation, Institute of Earth Sciences, Hebrew university of Jerusalem, Jerusalem, Israel, 22.03.2009.

Eisenhauer, A.: Alkaline Earth isotope systems and their application in earth science research, Geowissenschaften ETH Zürich, Schweiz, 25.09.2009.

Eisenhauer, A.: Ca and Sr isotope fractionation. GZG, Universität Göttingen, Göttingen, 14.10.2009.

Eisenhauer, A.: The marine Sr isotope balance, AGU, San Francisco, USA, 16.12.2009.

Frank, M., 2009: Tracing Past Ocean Circulation and Continental Weathering from Ferromanganese Crusts. Eingeladener Seminarvortrag, Institut für Physiologische Chemie und Pathobiochemie der Universität Mainz, Mainz, 17.06.2009.

Frank, M., 2009: Tracing Water Masses and Dating Sediments in the Arctic Ocean with Beryllium Isotopes. CEREGE, Aix-en-Provence, France, 03.12.2009.

Froese, R., 2009: Data Graveyard, Data Warehouse or Public Information System? 2nd Meeting of the DFG working Group on biodiversity Data, Berlin, 08.-09.06.2009.

Froese, R., 2009: Fisch kaputt: Ursachen der weltweiten Überfischung. Kulturkreis Schwenti-

Appendices

- netal, Schwentinetal, 28.09.2009.
- Froese, R.**, 2009: Species Information Systems. EPBRS Meeting World Biodiversity and European Taxonomy, Prague, Czech Republic, 19.-22.05.2009.
- Froese, R.**, 2009: Status of FishBase in 2009. Mini-Symposium "Darwin, Names and Databases", FAO, Rome, Italy, 09.09.2009.
- Froese, R.**, 2009: Revisiting Stock-Recruitment Relationships. Mini-Workshop on Fisheries: Ecology, Economics and Policy, Kiel, 14.04.2009.
- Froese, R.**, 2009: FishBase. e-Biosphere Conference 09, London, UK, 01.-03.06.2009.
- Froese, R.**, 2009: Über den Zustand der Bestände von Dorsch, Hering und Sprotte in der westlichen Ostsee. 7. Fischereigespräch, Kiel, 07.07.2009.
- Froese, R.**, 2009: The Failure of the Common Fisheries Policy. Common Fisheries Policy Roundtable, Pew Fellows Meeting, Sebasco, Maine, USA, 17.10.2009.
- Hieronymi, M.** and **Macke, A.**, 2009: Fluctuations of Light in the Upper Ocean. AWI-IUP-Blockseminar: Ocean-Atmosphere Interactions and their Role in Climate Change, Bremen, 09.02.2009.
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Costa, S.: Universidad de Barcelona, Barcelona, Spain, 21.-30.04.2009.

Derkachev, A.: Pacific Oceanological Institute, Vladivostok, Russia, 26.11.-10.12.2009.

Dirksen, O.: Institute of Volcanology and Seismology FEB RAS, Petropavlovsk-Kamchatsky, Russia, 18.10.-18.12.2009.

Dobrotina, E.: Arctic and Antarctic Research Institute, St. Petersburg, Russia, 14.-25.10.2009.

Durgadoo, J.: Department of Oceanography, University of Cape Town, Rondebosch, Cape Town, South Africa, 01.-14.03.2009.

Fantle, M.: Department of Geosciences, Princeton University, Princeton, USA, 03.-20.07.2009.

Gary, S.: Duke University, Durham, NC, USA, 01.09.2008-10.01.2009.

Geli, L.: Ifremer, Brest, France, 23.-27.02.2009.

Goecke, F.: Universität Concepción, Deutscher Akademischer Austausch Dienst (DAAD) – Becas Chile (Conicyt) PhD Program, 06.2008-05.2011.

Göran N.: Institute for Inorganic and Analytical Chemistry, Bioorganic Analytics, Friedrich-Schiller-Universität Jena, Jena, Feb. 2009 and June 2009.

Green, M.: Jacobs University, Bremen, 01.07.-21.08.2009.

Griffith, E.: Pennsylvania-State University, State College, PA, USA, 10.06.-03.07.2009.

Guilin, H.: Chinese Academy of Sciences, Beijing, China, 01.07.-30.09.2009.

Guinder, V.: Laboratorio de Biología Marina, Instituto Argentino de Oceanografía, Bahía Blanca, Argentina, 01.02.-15.07.2009.

Henrys, S.: GNS Science, Lower Hutt, New Zealand, 27.04.-07.05.2009.

Ivanov, V.: Arctic and Antarctic Research Institute, St. Petersburg, Russia, 17.-28.12.2009.

Jiang, Chen Lin, University of Kunming, China, 29.06.-09.08.2009.

Jiang, Yi: University of Kunming, China, 29.06.-09.08.2009.

Jochum, M.: National Center for Atmospheric Research, Boulder, CO, USA, 01.-30.07.2009.

Keeling, R.: Scripps Institution of Oceanography, University of Southern California, San Diego, CA, USA, 18.07.2008-31.07.2009.

Kirillov, S.: Arctic and Antarctic Research Institute, St. Petersburg, Russia, 17.05.-01.07.2009.

Korenaga, J.: Yale University, New Haven, USA, 19.-23.01.2009.

Krasheninnikov, S.: Moscow State University, Moscow, Russia, 15.-28.02.2009.

Kulakov, M.: Arctic and Antarctic Research Institute, St. Petersburg, Russia, 16.-30.09.2009.

Kuvikas, O.: Kamchatka Vitus Bering State University, Petropavlovsk-Kamchatsky, Russia, 14.01.-13.02.2009.

Kvarven, T.: University of Bergen, Bergen, Norway, 06.-10.07.2009.

LaRowe, D.E.: School of Earth & Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA, USA, 08.12.-13.12.2009.

Lisitzin, A.P.: P.P. Shirshov Institute of Oceanology RAS, Moscow, Russia, 18.03.-05.04.2009.

Lutjeharms, J.R.E.: Department of Oceanography, University of Cape Town, Rondebosch, Cape Town, South Africa, 16.02.-31.03.2009.

Mahasweta S.: DAAD-Stipendiatin, National Institute of Oceanography, Goa, India, 2008-2011.

Makhotin, M.: Arctic and Antarctic Research Institute, St. Petersburg, Russia, 17.05.-01.07.2009, 07.12.-31.12.2009.

Martynov, F.: Arctic and Antarctic Research Institute, St. Petersburg, Russia, 25.10.-22.11.2009.

Melo Ramos, V.: Instituto Nacional de Desenvolvimento das Pescas, INDP, Mindelo, São Vicente, Cape Verde, 01.10.-30.01.2009.

Menesguen, C.: Ifremer, Brest, France, 23.-27.02.2009.

Mironov, N.: V.I. Vernadsky Institute of Geochemistry and Analytical Chemistry, RAS, Moscow, Russia, 23.11.-31.12.2009.

Nikulina, A.: St. Petersburg State University, St. Petersburg, Russia, 07.-31.10.2009.

Novikhin, A.: Arctic and Antarctic Research Institute, St. Petersburg, Russia, 25.10.-

Appendices

22.11.2009.

Patara, L.: Centro Euro-Mediterraneo per i Cambiamenti Climatici, Bologna, Italy, 26.05.2008-25.05.2009.

Pérez, M.: Instituto de Ciencias de la Tierra Jaume Almera, Barcelona, Spain, 30.11.-21.12.2009.

Polyakova, Y.: Moscow State University, Moscow, Russia, 10.03.-09.04.2009, 15.12.2009-11.01.2010.

Pomella, H.: Institut für Geologie, Innsbruck, Austria, 02.-11.11.2009.

Ponomareva, V.: Institute of Volcanology and Seismology FEB RAS, Petropavlovsk-Kamchatsky, Russia, 07.-21.02.2009, 23.11.-15.12.2009.

Shoji, J.: Hiroshima University, Japan, 19.08.-09.09.2009.

Regnier, P.: Adjunct Professor, Dépt. des Sciences de la Terre et de l'Environnement Université Libre de Bruxelles, Bruxelles, Belgium, 18.-20.11.2009, 29.11.-01.12.2009

Repina, I.: Obukhov Institute for Atmospheric Physics RAS, Moscow, Russia, 06.-20.12.2009.

Rong, B.: Ocean University, China, 29.09.2009-30.09.2013.

Mahasweta, S.: DAAD-Stipendiatin, National Institute of Oceanography, Goa, India, 2008-2011.

Ryzhov, I.: St. Petersburg State University, St. Petersburg, Russia, 01.-31.10.2009.

Schäfer, J.: Universität Freiburg, Freiburg, 13.-17.07.2009.

Shigemitsu, M.: Faculty of Environmental Earth Science, Hokkaido University, Sapporo, Japan, 02.02.-24.03.2009, 09.11.-06.12.2009.

Silva, P.N.: INDP, Mindelo, Cape Verde, 01.10.-31.12.2009.

Silva, P.N.: Instituto Nacional de Desenvolvimento das Pescas, INDP, Mindelo, São Vicente, Rep. Kap Verde, 01.10.2009-30.01.2009.

Smith, S.L.: Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Yokohama, Japan, 09.-13.11.2009.

Streitkamp, K.: Cost Action 735, STSM Short Term Scientific Mission, ETH Zürich, Switzerland, 09.-17.02.2009.

Sun, X.: School of Atmospheric Sciences, Nanjing University, Nanjing, China, 15.07.-15.10.2009.

Swart, N.: Department of Oceanography, University of Cape Town, Rondebosch, Cape Town, South Africa, 27.04.-12.05.2009.

Taldenkova, E.: Moscow State University, Moscow, Russia, 06.08.-05.09.2009, 10.-22.12.2009.

Timofeeva, A.: Arctic and Antarctic Research Institute, St. Petersburg, Russia, 06.-27.08.2009.

Timokhov, L.: Arctic and Antarctic Research Institute, St. Petersburg, Russia, 16.09.-04.12.2009.

7.2 Visits by IFM-GEOMAR staff

Bauch, H.A.: College of Oceanic and Atmospheric Sciences (COAS) at Oregon State University, Corvallis, OR, USA, 01.08.2008-30.06.2009.

Dale, A. W.: Department of Earth Sciences – Geochemistry, Faculty of Geosciences, Utrecht University, Utrecht, The Netherlands, 09.-13.11.2009.

Dale, A. W.: Dépt. des Sciences de la Terre et de l'Environnement, Université Libre de Bruxelles, Belgium, 14.-17.12.2009.

Fehsenfeld, S.: Mount Desert Island Biological Laboratory, Salisbury Cove, Maine, USA, 01.05.-16.06.2009.

Froese, R.: WorldFish Center, Los Baños, Philippines, 28.11.-17.12.2009.

Göthlich, L.: Plotkin Research Group in Mathematical Biology, Department of Biology, University of Pennsylvania, Philadelphia, PA, USA, 02.04.-28.06.2009.

Haslob, H.: Institute of Marine Research (IIM-CSIC), Vigo, Spain, 01.02.-31.03.2009.

Hoernle, K.: Department of Earth and Ocean Sciences, University of South Carolina, Columbia, USA. 07.2009 – 08.2010.

Hu, M.: Laboratoire d'Écophysiologie des Invertébrés, Université de Montpellier, France, 01.11.-20.12.2009.

Jegen, M.: Institut de Physique de Globe de Paris, Paris, Frankreich, 08.-10.12.2009.

Krastel, S.: Argentina Hydrographic Survey, Department of Oceanography, Division of Marine Geology and Geophysics, 21.-26.02.2009.

Kruse, I.: University of Gothenburg, Department of Marine Ecology, Tjärnö, Sweden. 14.-25.06.2009.

Lewandowska, A.: National Center for Atmospheric Research (NCAR), Boulder, Colorado, USA, 02.-14.08.2009.

Nasrolahi, A.: University of Gothenburg, Department of Marine Ecology, Tjärnö, Sweden. 05.10.-01.11.2009.

Pansch, C.: University of Gothenburg, Department of Marine Ecology, Tjärnö, Sweden. 05.10.-01.11.2009.

Prowe, F.: Department of Earth, Atmospheric and Planetary Sciences (EAPS), Massachusetts Institute of Technology, Cambridge, MA, USA, 01.-12.06.2009.

Stumpp, M.: Sven-Loven Centre Kristineberg, University of Göteborg, Sweden, 27.06.-12.08.2009.

Visbeck, M.: CIMAS, University of Miami, Miami, FL, USA, 16.12.2008-19.01.2009.

Weinberger, F.: Department of Biology, Chungnam National University, Daejeon, South Korea.

11.-18.07.2009.

Werner, K.: University of Tromsø, Department of Geology, Tromsø, Norway, 06.04.-01.07.2009.

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

Bange, H.W.: 2nd SOPRAN Annual Meeting, IFM-GEOMAR, Kiel, 19.-20.03.2009.

Bange, H.W.: COST Action 735 WG3 Technical Workshop on Coastal CO₂/N₂O/CH₄ data, Kiel, 22.-23.01.2009.

Bauch, H.A.: Programme committee: AGU Chapman Conference on abrupt climate change, Byrd Polar Research Center, Columbus, Ohio (USA), 15.-19.06.2009.

Behrmann, J. et al.: Integrated Ocean Drilling Program (IODP), INVEST Workshop, Bremen, Germany, 23.-25.09.2009

Behrmann, J.: Integrated Ocean Drilling Program (IODP) Science Planning Committee Meeting, Kiel, 25.-27.08.2009.

Biastoch, A.: SAMOC Meeting, Paris, France, 02.-03.07.2009.

Biastoch, A.: Agulhas Workshop, IFM-GEOMAR, Kiel, 02.-04.03.2009.

Biastoch, A.: MOCA-09 Conference, Montreal, Canada, 20.-24.07.2009.

Biastoch, A.: Nordcluster Workshop, Kiel, 08.-09.10.2009.

Biastoch, A.: THOR Kick-off Meeting, Hamburg, 12.01.2009.

Croot, P.: COST 735 workshop: Aerosol Iron Solubility, Norwich, UK, 23.-24.02.2009.

Dullo, W.-Chr., and van den Bogaard, C.: 4. Deutscher KALMAR-Workshop, Kiel, 01.-02.12.2009.

Dullo, W.-Chr., van den Bogaard, C., and Georgeleit, K.: KALMAR- 1st Bilateral Workshop on Russian-German Cooperation, Petropavlosk-

Kamchatsky, Russia, 27.04.-01.05.2009.

Greatbatch, R.: Round Table Meeting on Eddies and the Southern Ocean Carbon Cycle, IFM-GEOMAR, Kiel, 11.03.2009.

Hauri, C., and **Lebrato, M.:** EPOCA 1st Annual Meeting, Student's Session chair and convenors. University of Plymouth, UK, 29.06.-02.07.2009.

Heise, W., and **Jegen, M.:** Session conveners: New approaches to the analysis and interpretation of magnetotelluric data, EGU, Vienna, Austria, 20.-24.04.2009.

Karstensen, J.: ESONET NoE 2nd Best Practice Workshop, Session: mobile observatories, Brest, France, 08.10.-09.10.2009.

Karstensen, J.: FeBEC meeting, IFM-GEOMAR, Kiel, 29.04.2009.

Karstensen, J.: MODOO kick-off meeting, NOCS, Southampton, UK, 07.-08.05.2009.

Kassens, H., Hars, M., and Volkmann-Lark, K.: 4. Nationales Arbeitstreffen des Verbundvorhabens „System Laptev-See: „Eurasische Schelfmeere im Umbruch – Ozeanische Fronten und Polynjasysteme in der Laptev-See“, Kiel, 22.09.2009.

Kassens, H., Hars, M., Kakhro, N., Klagge, T., and Volkmann-Lark, K.: 10th Anniversary of the Otto Schmidt Laboratory for Polar and Marine Research – Scientific Symposium, St. Petersburg, Russia, 25.11.2009.

Kassens, H., Hars, M., Kakhro, N., Klagge, T., and Volkmann-Lark, K.: 14. Arbeitstreffen im Rahmen der Fachvereinbarung über die Zusammenarbeit auf dem Gebiet der Meeres- und Polarforschung zwischen dem Ministerium für Bildung und Wissenschaft der Russischen Föderation und dem Bundesministerium für Bildung und Forschung der Bundesrepublik Deutschland, St. Petersburg, Russia, 26.-27.11.2009.

Kassens, H., Hars, M., Kakhro, N., Klagge, T., Neubert, A., and Volkmann-Lark, K.: 9th Workshop on Russian-German Cooperation:

Laptev Sea System, St. Petersburg, Russia, 24.-25.11.2009.

Kassens, H., Hars, M., Kakhro, N., Klagge, T., Neubert, A., and Volkmann-Lark, K.: IMPETUS 2009, St. Petersburg, Russia, 26.-27.11.2009.

Keenlyside, N.: 1. DFG-JSPS mini workshop, IFM-GEOMAR, Kiel, 17.-19.06.2009.

Kopp, H. und Flüh, E.: 69. Jahrestagung der Deutschen Geophysikalischen Gesellschaft DGG, Universität Kiel, 23.-26.03.2009.

Körtzinger, A.: Symposium "Decadal Variations of the Ocean's Interior Carbon Cycle: Synthesis and Vulnerabilities", Centro Stefano Franscini at Monte Verità, Switzerland, 13.-17.07.2009.

Lehmann, A.: CBO Session: Coastal and off-shore exchange processes. Baltic Sea Science Congress, Tallinn, Estonia, 17.-21.08.2009.

Palshyn, N., and **Jegen, M.:** Session conveners: EM studies in the ocean, International association of Geomagnetism and Aeronomy, Soprun, Hungary, 23.-30.08.2009.

Quack, B.: Halocarbon Database Meeting (EU COST Action 735), Kiel, 11.-12.02.2009.

Riebesell, U.: BIOACID Kick-off Meeting, IFM-GEOMAR, Kiel, 27.-29.10.2009.

Stadnitskaia, A., **Feseker, T.,** and Niemann, H.: Methane in aquatic sediments: sources, chemical interactions, fluxes, and biotopes. EGU General Assembly 2009, Vienna, Austria, 21.04.2009.

Wallace, D.W.R.: International SOLAS Open Science Conference, Barcelona, Spain, 16.-19.11.2009.

Wallace, D.W.R.: International SOLAS Summer School, Cargèse, Corse, France, 03.-15.08.2009.

Wallmann, K.: SUGAR /Japanese-German gas hydrate workshop, IFM-GEOMAR, Kiel, 10.-11.12.2009.

Wallmann, K.: SUGAR Teilprojektleiter Treffen, IFM-GEOMAR, Kiel, 09.03.2009.

Appendices

Wallmann, K.: SUGAR workshop / Vollversammlung, IFM-GEOMAR, Kiel, 10.09.2009.

Wallmann, K.: UNEP Steering Committee Meeting, 04.-05.03.2009.

Wallmann, K.: ECO2 workshop. Kiel, 19.-20.09.2009.

Wegner, C., Frey, K., Mathis, J.T., Coakley, B., Kirillov, S., Michel, C., Nikolopoulos, A., O'Regan, M., Reigstad, M., Intrieri, J.M., and Bowden, S.: ART Initiation Workshop, Fairbanks, Alaska, USA, 07.-09.11.2009.

7.4 Colloquia & Seminars at IFM-GEOMAR

Meereswissenschaftliches Kolloquium

09.01.2009:

Rui Rosa, Guia Marine Laboratory, Faculty of Sciences, University of Lisbon, Portugal: "The predicted impact of climate change and ocean acidification on the vertical ecology of a top predator squid, *Dosidicus gigas*".

Dr. Stuart Jenkins, School of Ocean Sciences, Bangor University, Wales, UK: "When and why does biodiversity matter? Insights from experiments in model marine systems".

16.01.2009:

Dr. Christine Barras, Laboratoire d'Etude des Bio-Indicateurs Actuels et Fossiles, Université d'Angers, France: "Culture of deep-sea benthic foraminifera under controlled laboratory conditions: Calibration of $\delta^{18}\text{O}$ as temperature proxy".

23.01.2009: Gemeinsames Sonderkolloquium von IPÖ und IFM-GEOMAR:

Dr. Dieter Czeschlik - Verlagsdirektor, Springer-Verlag, Heidelberg - "Das wissenschaftliche Verlagswesen: Entwicklungen und neue Modelle" mit kurzer Einführung von Prof. Dr. Gotthilf Hempel.

23.01.2009: SFB 754 - Mini Symposium

Prof. Burke Hales, College of Oceanic and Atmospheric Sciences (COAS), Oregon State University, USA

Dr. Francisco Chavez, (Monterey Bay Aquarium Research Institute, CA, USA)

Dr. Marcela Cornejo, (Laboratory of Oceanographic Processes and Climate (PROFC) Department of Oceanography University of Concepción, Chile)

30.01.2009:

Dr. Claudia Timmreck, Max-Planck-Institut für Meteorologie, Hamburg: "The climate impact of very large volcanic eruptions: An Earth System model approach".

06.02.2009:

Prof. Ralph Keeling, SCRIPPS Institution of Oceanography, "A perspective on the global carbon cycle from trends in atmospheric CO_2 and O_2 ".

13.02.2009:

Jungforscher Symposium -- Moderation: Dr. Joachim Dengg

Aaron Kreier, 10. Klasse, Mathematisch-Naturwissenschaftliches Gymnasium Rämibühl, Zürich, Schweiz: „E.N.D.O. -- extreme nautical deep office“ (Gewinnerprojekt des Einsteinpreis im Rahmen von „Jugend forscht“ der Schweiz)

Tammy Jacobsen-Bialas, 12. Klasse, Heinrich-Heine-Schule Heikendorf: „Vermischung im äquatorialen Atlantik - Mit der MERIAN unterwegs von den Kapverden“ (Projekt im Rahmen von „NaT-Working „Meeresforschung“).

Steffen Koch, 12. Klasse, Städtisches Gymnasium Bad Segeberg „Im Eis der Arktis auf einem kanadischen Eisbrecher“ (Projekt im Rahmen der deutsch-kanadischen Kooperation).

03.04.2009:

PD Dr. Bettina Westermann, Institut für Allgemeine und Spezielle Zoologie, Universität Gießen: "Cytobiologische Studien zum Verdauungsablauf und zur Struktur des Mantelrandes von *Nautilus pompilius* (Cephalopoda)".

17.04.2009 Sonderkolloquium "Fritz Schott Ocean Circulation Lecture":

Bower, Prof. Dr. A., Woods Hole Oceanographic Institution, Woods Hole, USA: "Lagrangian Observations of Labrador Sea Water Export from the Subpolar North Atlantic".

23.04.2009:

Dr. Juan Carlos Molinero, IFM-GEOMAR, FB3 EOE-N: "Challenges for European pelagic ecosystems under varying global stress".

24.04.2009:

Dr. Eva Susanne Leu, Norwegian Polar Institute, Tromsø, Norway: "Climate effects on planktonic food quality and trophic transfer in Arctic Marginal Ice Zones (MIZs)".

07.05.2009:

Dr. Maren Striebel, University of Oslo, Norway: "Plankton dynamics: The influence of light, nutrients and diversity".

08.05.2009:

Dr. Monika Winder, John Muir Institute of the Environment, University of California at Davis, CA, USA: "Climate forcing at the base of the aquatic food web: subtle causes and big effects".

15.05.2009:

Prof. Dr. Birgit Schneider, Institute of Geosciences, University of Kiel: "What would happen if particle fluxes in the ocean were changing - implications for air-sea CO_2 -exchange, ocean acidification and oxygen distributions".

29.05.2009: "Verleihung des Annette Barthelt-Preises 2009"

05.06.2009:

Dr. Peter Croot & Katrin Bluhm, Marine Biogeochemie, IFM-GEOMAR: *"REDOX redux - the role of O₂ as a tipping point in the biogeochemical cycles of iodine and iron"*.

12.06.2009:

Dr. Gerard Eldin, Laboratoire d'Etudes en Géophysique et Oceanographie Spatiales (LEGOS), Toulouse, France: *"Preliminary results from the Filamentos and VOCALS-REx cruises in the Peruvian upwelling system"*.

17.06.2009:

Dr. Julian Metcalfe, Marine System Dynamics Group, Fisheries Division Centre for Environment, Fisheries & Aquaculture Science (CEFAS) Lowestoft, UK: *"From simple measurements to complex behaviours: how we learn about fish movements and behaviour in the open sea"*.

19.06.2009:

Prof. Dr. Shoshiro Minobe, Hokkaido University, Sapporo, Japan: *"Mid-latitude ocean-currents influence revealed by high-resolution modelling, analyses, and satellite observations: From the marine atmospheric boundary layer to the free troposphere"*.

03.07.2009:

Prof. Dr. Claude Hillaire-Marcel, GEOTOP – Université du Québec à Montréal, Montreal, Canada: *"Revisiting implicit relationships between ocean salinity, mass and volume vs. oxygen isotope composition in foraminifers"*.

10.07.2009:

Dr. Wu-Cheng Chi, Department of Earth Sciences, Academia Sinica, Taipei, Taiwan: *"Studying Lithospheric, Hydrospheric, and Atmospheric Processes Using Land and Ocean-Bottom Broadband Seismic Waveforms"*.

17.07.2009:

Prof. Dr. Björn Stevens, Max-Planck-Institut für Meteorologie, Abteilung Atmosphäre im Erdsystem, Hamburg: *"Turbulent Adventures: Buoyancy Reversal, Entrainment and Stratocumulus Topped Boundary Layers"*.

22.07.2009:

Steffi Ismar, School of Biological Sciences, University of Auckland, New Zealand: *"Foraging and breeding ecology of the Australasian gannet *Morus serrator*"*.

11.09.2009:

Prof. Osvaldo Ulloa, Universidad de Concepcion, Chile: *"Microbial oceanography of the oxygen-deficient waters of the eastern tropical South Pacific"*.

18.09.2009:

Dr. Willem Sijp, University of New South Wales, Sydney, Australia: *"Stability of the Atlantic Meridional Overturning Circulation and the effect of Southern Ocean wind stress changes on the global thermocline"*.

16.10.2009:

Dr. Jana Friedrich, AWI, Bremerhaven: *"State of the benthic ecosystem on the western Black Sea shelf in early spring 2008 - Results from the POS363 cruise"*.

23.10.2009:

Prof. Dr. Matthew Bracken, Northeastern University, Boston, MA, USA: *"Effects of realistic biodiversity changes on marine ecosystem functioning"*

28.10.2009:

Prof. Ronni Glud, Marine Biogeochemistry at SAMS, UK: *"Oxygen dynamics of marine sediments a challenge in resolving time and space"*.

30.10.2009:

Prof. Dr. Thorsten Reusch, FB3 - IFM-GEOMAR, Kiel: **Antrittsvorlesung:** *"Evolutionsökologie des marinen Nektons"*.

06.11.2009:

Dr. Elena Perez, Department of Palaeontology, Natural History Museum, London, UK: *"Benthic foraminifera in oxygen minimum zones and me-*

thane seeps".

13.11.2009:

Lutz Ahrens, Institut für Küstenforschung, GKSS-Forschungszentrum, Geesthacht: *"Poly-fluoroalkyl compounds as emerging pollutants in the marine environment"*.

27.11.2009:

Prof. Nico Michiels, Animal Evolutionary Ecology, Tübingen University: *"Red glowing fish in the sea: Many questions and a few answers"*.

04.12.2009:

Dr. Martin Thiel, Facultad Ciencias del Mar Universidad Católica del Norte & Center for Advanced Studies in Arid Systems, Coquimbo, Chile: *"Travelling the Seven Seas - The Ecology of Rafting in the World's Oceans"*.

11.12.2009:

Dr. Sang-Wook Yeh, Korean Ocean Research and Development Institute, South Korea: *"The flavour of El Niño in a changing climate"*.

SFB 574 Seminars

28.01.2009:

Andrea Borgia, Univ. Roma, Italy: *"Volcanic Spreading on Volcanoes such as Etna and Vesuvius"* (joint SFB-ExCluster seminar).

26.03.2009:

Ximena Contardo, Universidad Católica del Norte, Antofagasta, Chile: *"Structural and depositional features revealed from high resolution seismic data in the accretive Segment of the Chilean Margin (33°30'-37°S) Insights from scaled sandbox experiments"*.

02.04.2009:

Andres Folguera, Universidad de Buenos Aires, Argentina: *"Tectonic evolution of the Southern Central Andes (36°-40°S)."*

09.04.2009:

Vlad C. Manea, Computational Geodynamics Laboratory, Centro de Geociencias, UNAM, México: "Geodynamic modeling of subduction zones: flat slabs, steep slabs and ridge subduction".

23.04.2009:

Ralf Halama, SFB574, CAU Kiel: "Recycling of nitrogen during subduction of oceanic crust: insights from high-pressure and ultra-high pressure metamorphic rocks".

04.06.2009:

Nazli Olgun: "Volcanic ash flux estimates into the Pacific Ocean: Implications on marine biogeochemical Fe-cycles".

11.06.2009:

Nikita Mironov, Vernadsky Institute of Geochemistry and Analytical Chemistry, RAS, Moscow, Russia: "Klyuchevskoy volcano (Kamchatka) - from source to surface".

26.11.2009:

David Völker: "Submarine mass wasting at the southern central Chilean continental margin".

03.12.2009:

Salvatore Giammanco, INGV Catania, Italy: "Volatile budgets of Etna and Stromboli volcanoes".

SFB 754 Seminar

16.01.2009:

Christine Barras, University Angers, Laboratoire d'Étude des Bio-Indicateurs Actuels et Fossiles, Angers, France: "Culture of deep-sea benthic foraminifera under controlled laboratory conditions: Calibration of $\delta^{18}\text{O}$ as temperature proxy".

06.02.2009:

Prof. Dr. Ralph Keeling, Scripps Institution of Oceanography, La Jolla, USA: "A perspective on the global carbon cycle from trends in atmospheric CO_2 and O_2 ".

15.05.2009:

Prof. Dr. Birgit Schneider, CAU, Kiel: "What would happen if particle fluxes in the ocean where changing - implications for air-sea CO_2 -exchange, ocean acidification and oxygen distributions".

05.06.2009:

Dr. Peter Croot & Katrin Bluhm, IFM-GEOMAR: "REDOX redux - the role of O_2 as a tipping point in the biogeochemical cycles of iodine and iron".

12.06.2009:

Dr. Gerard Eldin, LEGOS, Toulouse, France: "Preliminary Results from the Filamentos and VOCALS-REx cruises in the Peruvian upwelling system".

06.07.2009:

Dr. Markus Jochum, NCAR, Boulder; USA: "The new CCSM and its application to the paleo CO_2 problem".

10.09.2009:

Prof. Osvaldo Ulloa, Universidad de Concepcion, Chile: "Microbial oceanography of the oxygen-deficient waters of the eastern tropical South Pacific".

18.09.2009:

Dr. Willem Sijp, University of New South Wales, Sydney, Australia: "Stability of the Atlantic Meridional Overturning Circulation and the effect of Southern Ocean wind stress changes on the global thermocline".

08.10.2009:

Prof. Dr. Oded Beja

Technion - Israel Institute of Technology, Haifa, Israel: "Metagenomics in the speed of light".

16.10.2009:

Dr. Jana Friedrich, AWI, Bremerhaven: State of the benthic ecosystem on the western Black Sea shelf in early spring 2008 - results from the POS363 cruise

28.10.2009:

Prof. Ronni Glud, Marine Biogeochemistry at SAMS, UK: "Oxygen dynamics of marine sediments a challenge in resolving time and space".

02.11.2009: Joint FB1/SFB754 seminar:

Dr. habil. Carsten Eden, IFM-GEOMAR, Kiel: "Vorticity balance in western boundary currents".

11.12.2009:

Martinez Boti, Autonomous University of Barcelona, Spain: "Validation of foraminiferal-based ϵ_{Nd} proxy and application to the Eastern Equatorial Pacific during the last deglaciation".

Dr. Sang-Wook Yeh, Korean Ocean Research and Development Institute, Korea: "The flavour of El Niño in a changing climate".

Seminar Research Division 1

12.01.2009:

Dr. Lars Umlauf, Physical Oceanography and Instrumentation, Institut für Ostseeforschung, Warnemünde: "The effect of rotation on gravity current entrainment".

14.01.2009:

Ed Hawkins, University of Reading, Reading, UK: "Decadal prediction and predictability: where should we observe the Atlantic Ocean?"

26.01.2009

Dr. Jürgen Bader, Bjerknes Centre for Climate Research, Bergen, Norway: "Impact of a Projected Future Arctic Sea Ice Reduction on Extratropical Storminess and the NAO".

29.01.2009:

Dr. Torge Martin, Geophysical Fluid Dynamics Laboratory, Princeton, NJ, USA: "Issues of ice-ocean interaction in global climate models".

02.02.2009

Prof. Dr. Zhengyu Liu, Wisconsin-Madison, z.Zt. MPI-Hamburg: "On the assessment of global atmospheric response to SST variability in

the observations".

09.02.2009:

Dipl.-Met Sebastian Wahl, IFM-GEOMAR, Kiel: "Predictability and Variability in the Tropical Atlantic in the Kiel Climate Model".

16.02.2009:

Dr. Frederik Petersson, University of Bristol, Bristol, UK: "Urban Perfluorocarbon deliberate Tracer release Experiments"

02.03.2009:

Dr. Daniel McGinnis, IFM-GEOMAR, Kiel: "Eddy correlation oxygen flux measurements in lakes and oceans: lessons learned in five years".

09.03.2009:

Dr. Tomoki Tozuka, University of Tokyo, Tokyo, Japan: "Seasonal variation of the Seychelles Dome in the southwestern Indian Ocean".

06.04.2009:

Dr. Jun-Ichi Yano, CNRM/GAME Météo-France, Toulouse, France: "Convective parameterization: "deconstruction" of the problem".

30.04.2009:

Dr. Gregory Duane, NCAR, Boulder, CO, USA: "Synchronized chaos for data assimilation, parameter estimation, and fusion of climate models".

04.05.2009:

H. Baumert, FU Berlin, Berlin: "On the roles of mean-flow shear and internal waves in geophysical turbulence generation".

05.05.2009:

Dr. Caroline Ummenhofer, CCRC, Sydney, New South Wales, Australia: "The role of the Indian Ocean for regional rainfall patterns - Mechanisms and implications for forecasting".

11.05.2009:

Dr. Susann Tegtmeier, Environment Canada, University of Toronto, Toronto, Canada: "Variability of stratospheric ozone: temporal and zonal structure".

25.05.2009:

Prof. Dr. Dietmar Dommenges, IFM-GEOMAR, Kiel: "Conceptual Understanding of Climate Change".

04.06.2009:

Dr. Laetitia Pichevin, Edinburgh University, Edinburgh, UK: "Enhanced Carbon Pump Inferred from Relaxation of Nutrient Limitation in the Glacial Ocean".

08.06.2009:

Prof. Dr. Richard Greatbatch, IFM-GEOMAR, Kiel, "Interpreting Eddy Fluxes".

15.06.2009:

Dr. Sarah Zedler, Institute for Applied Mathematics and Computational Science, Texas A & M University, College Station, TX, USA: "Estimation of the drag coefficient from ocean measurements underneath Hurricane Frances".

16.06.2009:

Dr. Thomas Jung, ECMWF, Reading, UK: "Tropical and Stratospheric Influences on European Weather and Climate".

29.06.2009:

Dr. Katja Lohmann, Max-Planck-Institut für Meteorologie, Hamburg: "Response of the North Atlantic subpolar gyre to persistent North Atlantic Oscillation like forcing".

29.06.2009: Joint FB2/FB1

Dr. Gregory Bodeker, NIWA, New Zealand: "A new threat to the ozone layer from a halocarbon biogeochemical cycle in the tropical ocean/atmosphere".

06.07.2009: Joint SFB/FB1 seminar

Dr. Markus Jochum, NCAR, Boulder, CO, USA: "The new CCSM and its application to the paleo CO₂ problem".

28.09.2009:

Prof. Dr. Xuguang Sun, School of Atmospheric Sciences, Nanjing University, Nanjing, China: "Two major modes of the variability of East Asian

summer monsoon and their possible origins".

02.11.2009: Joint FB1/SFB754 seminar:

Dr. habil. Carsten Eden, IFM-GEOMAR, Kiel: "Vorticity balance in western boundary currents".

11.12.2009: Joint FB1/SFB754 seminar:

Dr. Sang-Wook Yeh, Korean Ocean Research and Development Institute, Ansan, Korea: "The flavour of El Niño in a changing climate".

21.12.2009:

Prof. Dr. Andreas Macke, IFM-GEOMAR, Kiel: "13 Years at IFM-GEOMAR: Good People, Good View, Good Bye!".

Seminar Research Unit Maritime Meteorology

22.01.2009:

Antje Torge, IFM-GEOMAR, Kiel: "Monte Carlo radiative transfer simulations of reflected solar radiances from Sahara dust plumes."

12.02.2009:

Claudia Frauen, IFM-GEOMAR, Kiel: "Impacts of remote forcing on the recharge oscillator model of ENSO in a hybrid coupled model".

27.05.2009:

Chi Mai Nguyen, Monash University, Melbourne, Australia: "Hurricane structure change cycles during rapid intensification."

25.06.2009:

Antje Torge, IFM-GEOMAR, Kiel: "3D Monte Carlo radiative transfer simulations in Saharan dust plumes"

Christine Brandau, IFM-GEOMAR, Kiel:

"Ground-based remote sensing measurements of winter clouds".

02.07.2009:

Tobias Bayr, IFM-GEOMAR, Kiel: "Animations of climate model data".

Franziska Wittke, IFM-GEOMAR, Kiel: "Air Sea Interaction and trace gas emissions on coastal

upwelling regions".

09.07.2009:

Jenny Mecking, IFM-GEOMAR, Kiel: "Finding the O in AMO".

Jin Ba, IFM-GEOMAR, Kiel: "Decadal Atlantic MOC Variability in Coupled Models".

16.07.2009:

Hui Ding, IFM-GEOMAR, Kiel: "Improved seasonal prediction: the role of model systematic error".

Martin Hieronymi, IFM-GEOMAR, Kiel: "Measurements of Underwater Light Field Fluctuations".

23.07.2009:

Dr. Matt Toohey, IFM-GEOMAR, Kiel: "Validating the reported random errors of ACE-FTS measurements".

Michael Schlundt, IFM-GEOMAR, Kiel: "Measurement and calculation of turbulent fluxes".

30.07.2009:

Timo Hanschmann, IFM-GEOMAR, Kiel: "Wolken-Strahlungs-Effekte beobachtet mit Meteosat Second Generation".

Dr. John Kalisch, IFM-GEOMAR, Kiel: "Some breathtaking insights of the radiation budget at the surface and of the atmospheric column".

Other Seminars

12.01.2009:

Quack, Dr. B., IFM-GEOMAR: "The sea to air flux of bromoform (CHBr_3) – observations and theory – some background information about starting projects".

19.01.2009:

Ryabenko, E., IFM-GEOMAR: "Nitrogen isotope studies with specific application at North Atlantic and Pacific OMZ".

26.01.2009:

Nooijer, Prof. Dr. L., Alfred-Wegener Institute of Polar and Marine Research, Bremerhaven: "Physiological controls on calcification in foraminifera".

26.01.2009:

Gislason, Prof. Dr. S., Institute of Earth Sciences, University of Iceland: "CO₂ storage in basalt: the Carbfix Project".

04.02.2009:

Bertrics, Dr. V., USC, Los Angeles: "Bioturbation – An Underestimated Contribution to Benthic Element Cycling".

09.02.2009:

Bach, L., IFM-GEOMAR, Kiel: "Calcification and photosynthesis of the coccolithophore *Emiliana huxleyi* cultured under a broad range of carbonate chemistry conditions".

16.02.2009:

Fietzek, P., IFM-GEOMAR, Kiel: "The measurement of dissolved gases in seawater by means of membranes – Optimization of an underwater NDIR-pCO₂ sensor".

23.02.2009:

Kanzow, Prof. Dr. T., IFM-GEOMAR, Kiel: "A Northern Source for the Tropical Northeast Atlantic Oxygen Minimum Zone?".

02.03.2009:

Siedler, Prof. Dr. G., IFM-GEOMAR, Kiel: "From the East Madagascar Current to the Agulhas Cur-

rent: mean flow and eddy fields". Workshop on the SW Indian Ocean.

03.03.2009:

Siedler, Prof. Dr. G., IFM-GEOMAR, Kiel: "What is a successful SCOR WG?" Workshop on the SW Indian Ocean.

16.03.2009:

Lohbeck, Dr. K., Christian-Albrechts-Universität, Kiel: "UV-B induced damage to DANN and photosynthesis in relation to photoprotective mechanisms in *Ulva intestinalis*".

19.03.2009:

Schafstall, J., Dengler, M., Macke, A. and Brandt, P., IFM-GEOMAR, Kiel: "The impact of turbulent mixing on vertical fluxes within the Mauritanian upwelling region". 2nd Annual SO-PRAN meeting.

17.04.2009:

Bower, Prof. Dr. A., Woods Hole Oceanographic Institution, Woods Hole, MA, USA: "Lagrangian Observations of Labrador Sea Water Export from the Subpolar North Atlantic", Fritz Schott Ocean Circulation Lecture.

20.04.2009:

Wannicke, N., IOW, Warnemünde: "Transfer of diazotrophic fixed nitrogen to mesozooplankton species – Case studies in the Baltic Sea and the Atlantic Ocean".

27.04.2009:

Hipler, Prof. Dr. M., IBBP, Westfälische Wilhelms-Universität, Münster: "Remodelling of bioenergetic pathways in response to iron-deficiency in green microalgae".

28.04.2009:

Kanzow, Prof. Dr. T., IFM-GEOMAR, Kiel: "The Current State and Variability of the Atlantic Meridional Overturning Circulation". 6th Meeting of the IFM-GEOMAR Scientific Advisory Board.

29.04.2009:

Krüger, Prof. Dr. K., IFM-GEOMAR, Kiel: "Cli-

mate effects of major volcanic eruptions". 6th Meeting of the IFM-GEOMAR Scientific Advisory Board.

04.05.2009:

Schulz, Dr. K.G., IFM-GEOMAR, Kiel: "Experimental approaches of carbonate chemistry manipulation in CO₂ perturbation studies".

11.05.2009:

Johansen, Dr. A.M., Central Washington University, Ellensburg, WA, USA: "Anthropogenic vs. biogenic control of aerosol iron solubility over the equatorial Pacific Ocean".

18.05.2009:

Zindler, C., IFM-GEOMAR: "In-situ study of biological sources and sinks of oxygenated volatile organic carbon (OVOC) in the ocean".

25.05.2009:

Grombik-Suwala, Dr. I., Dept. of Physico-chemistry of Ecosystems, Institute of Nuclear Physics, Kraków, Poland: "Continuous measurements of hydrogen concentration in the air of Kraków by using GC-PDHID method".

01.06.2009:

Schauer, Dr. U., Alfred Wegener Institute for Polar and Marine Research, Bremerhaven: "Warming and freshening of the Arctic Ocean in the 2000s".

04.06.2009:

Brakhage, Prof. Dr. A., Universität Jena: "Natural Product Discovery at the Leibniz-Institute for Natural Products" (Kolloquium Marine Naturstoffe).

11.06.2009:

Veizer, Prof. Dr. J., University of Ottawa: "Coupling of terrestrial water and carbon cycles: Implications for climate".

15.06.2009:

Dähnke, Dr. K., Institute of Biology, University of Southern Denmark, Odense, Denmark: "Nitri-fication in the German Bight and its tributaries –

a stable isotope approach".

22.06.2009:

Walter, Dr. S., IMAU, Utrecht University, The Netherlands: "Hydrogen (H₂) in the Atlantic Ocean".

29.06.2009:

Bodeker, Dr. G., NIWA, New Zealand: "A new threat to the ozone layer from a halocarbon biogeochemical cycle in the tropical ocean/atmosphere".

06.07.2009:

Schütt, M., IFM-GEOMAR: "Gefahrgut, Gefahrgut?! – Allgemeine Information zu Gefahrgut-transporten".

13.07.2009:

Kock, Dr. A., IFM-GEOMAR, Kiel: "Nitrous Oxide, Hydroxylamine and Hydrazine in the OMZ off Peru – First Results from Meteor 77-4".

14.07.2009:

Macke, Prof. Dr. A., IFM-GEOMAR, Kiel: "Forschung auf dem Sonnendeck: Wolken, Strahlung & mehr". Wissen Schaffen.

16.07.2009:

Schulz, Prof. Dr. R., Botanisches Institut CAU Kiel: "Mikroalgen-Screening: Optimierung der biotechnologischen und bioenergetischen Nutzung", (Kolloquium Marine Naturstoffe).

20.07.2009:

Mohr, Dr. W., IFM-GEOMAR, Kiel: "Environmental controls on nitrogen fixation".

21.09.2009:

Miller, Dr. S., Atmospheric Sciences Research Center at the State University of NY, Albany, NY, USA: "Direct CO₂ and DMS Flux Measurements in the North Atlantic".

21.09.2009:

Gilbert, Dr. J., Plymouth Marine Laboratory, Plymouth, UK: "Metagenomics and Metatranscriptomics – A Year in the Western English Channel".

21.09.2009:

Tagliabue, Dr. A., LSCE, Gif-sur-Yvette, France: "The evolution of our understanding of the marine iron cycle and its impact on ocean biogeochemistry".

28.09.2009:

Biswas, Dr. H., National Institute of Oceanography (NIO), Visakhapatnam, India: "Effects of rising CO₂ on Godavari estuary natural Phytoplankton assemblage; is there any trend of shift in community structure?".

01.10.2009:

Kempken, Prof. Dr. F., Botanisches Institut, CAU Kiel: "Filamentous fungi as model systems in molecular genetics", (Kolloquium Marine Naturstoffe).

26.10.2009:

Waite, Prof. Dr. A., School of Environmental Systems Engineering, University of Western Australia, Crawley, Australia: "Eddies of the Leeuwin Current as Mediators of Primary Production, Cross-shelf Transport and Vertical Fluxes".

28.10.2009:

Glud, Prof. Dr. R., Scottish Association for Marine Science (SAMS), Oban, Argyll, UK: "Oxygen dynamics of marine sediments a challenge in resolving time and space".

02.11.2009:

Bach, L., IFM-GEOMAR, Kiel: "The particular impacts of pH and CO₂ on the coccolithophore *Emiliania huxleyi*".

09.11.2009:

Franz, J., IFM-GEOMAR, Kiel: "Phytoplankton Community Responses to Changes in Nutrient Stoichiometry in the Eastern South Pacific".

10.11.2009:

Smith, Dr. S.L., Environmental Biogeochemical Cycles Research Program, JAMSTEC, Yokohama, Japan: "Review of optimal uptake kinetics: from chemostats to field data".

16.11.2009:

Kriest, Dr. I., IFM-GEOMAR, Kiel: "Representation of biogeochemical processes in global ocean models and its effect on simulated nutrients and oxygen fields".

18.11.2009:

Bryant, Dr. L., Virginia Tech., Blacksburg, VA, USA: "Dynamic forcing of sediment oxygen uptake".

23.11.2009:

Marandino, Dr. C., IFM-GEOMAR, Kiel: "Open ocean eddy covariance measurements of DMS using API-CIMS".

30.11.2009:

Göthlich, Dr. L., IFM-GEOMAR, Kiel: "Evolution and the paradox of the plankton".

07.12.2009:

Kiko, Dr. R., IFM-GEOMAR, Kiel: "Acquisition of freeze protection through horizontal gene transfer in a crustacean?".

11.12.2009:

Martinez-Boti, Miguel, Autonomous University of Barcelona, Barcelona, Spain: "Validation of foraminiferal-based ϵ_{Nd} proxy and application to the Eastern Equatorial Pacific during the last deglaciation".

14.12.2009:

Omta, Dr. A.W., Massachusetts Institute of Technology (MIT), Cambridge, MA, USA: "Multiple regimes of air sea carbon partitioning identified from constant-alkalinity buffer factors".

16.12.2009:

Berg, Prof. Dr. P., University of Virginia, Department of Environmental Sciences, Charlottesville, VA, USA: "New developments and applications of the eddy correlation technique for measuring benthic fluxes".

7.5 Expert Activities:

Bange, H.W.:

- Co-Chair of Working Group 3 of 'The European Cooperation in the field of Scientific and Technical Research' (COST) Action 735: "Tools for Assessing Global Air-Sea Fluxes of Climate and Air Pollution Relevant Gases".

Bauch, H.A.:

- Steering Committee: PAGES Working Group: Arctic2k - Arctic climate during the last 2 millennia

Behrmann, J.H.:

- Member, Board of Governors, Deutsches Geoforschungszentrum Potsdam
- Member, Science Planning Committee (SPC), Integrated Ocean Drilling Program (IODP)
- Scientific Advisor (PhD candidates), University of Freiburg.
- Scientific Coordinator, DFG-SPP "SAMPLE" (South Atlantic)
- Scientific Coordinator, DFG-SPP IODP/ODP

Biastoch, A.:

- Member, NEMO Developers Committee
- Co-chair, SCOR WG 136 "Climatic Importance of the Greater Agulhas System"

Böning, C.:

- Ex-officio member, WGCM/CLIVAR Working Group on Ocean Model Development

Brandt, P.:

- Chair, CLIVAR-TACE observations working-group
- Member, CLIVAR Atlantic Implementation Panel
- Science Secretary for Deep Oceans and Ocean Climate in the Ocean Science Division of EGU
- Member, Medium research vessel steering group

Clemmesen, C.:

- Member, Deutsche Wissenschaftliche Kommission für Meeresforschung (DWK).
- Member, ICES Working Group on Recruitment Processes.
- Member and Secretary elect, Early Life history section of the American Fisheries Society.

Croot, P.:

- Member, International GEOTRACES Standards and intercalibration committee
- Member, EU COST Workgroup Action 735: Tools for Assessing Global Air-Sea Fluxes of Climate and Air Pollution Relevant Gases

Dullo, W.-Chr.:

- Representative of Germany, CIESM
- Chair, Scientific Advisory Board, Deutsches Meeresmuseum Stralsund
- Chair, Verein zur Förderung der GeoUnion Alfred-Wegener-Stiftung e.V.
- Treasurer, GeoUnion Alfred-Wegener-Stiftung e.V.
- Member, Executive Committee, Geologische Vereinigung
- Member, Scientific Advisory Board, „Forschungsdialog: System Erde“, Leibniz Institut für Pädagogik der Naturwissenschaften Kiel
- Member, Award Committee for Humboldt- and Wilhelm Bessel Research Awards, Alexander von Humboldt Foundation
- Member, Committee for Scientific Libraries and Information Systems, DFG
- Member, Fachkollegium Earth Sciences, DFG

Eisenhauer, A.:

- Member, Executive Board, "Future Ocean" Excellence Cluster, Univ. Kiel
- Referee, U.S. National Science Foundation (NSF)
- Referee, Natural Environment Research

- Council of the United Kingdom (NERC)
 - Referee, Netherlands Organization for Scientific Research (NWO)
 - Referee, National Science Foundation of Israel (NSI)
- Flüh, E. R.:**
- Member, FKPE (Forschungskollegium Physik des Erdkörpers e.V.)
- Frank, M.:**
- Member, International Steering Committee, GEOTRACES program
 - Member, Beirat Kölner Hochleistungs-Beschleuniger-Massenspektrometer, DFG
 - Member, Management Committee of COST Action ES0801 (Ocean Chemistry)
- Froese, R.:**
- Coordinator, FishBase Consortium.
 - Coordinator, AquaMaps Consortium.
 - Member, DFG Arbeitsgruppe zu Biodiversitätsdaten.
- Hanel, R.:**
- Permanent member of the referee board of the German Academic Exchange Service (DAAD)
 - 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
 - Maritime Ambassador of the European Commission
 - Member, "Senat und Hauptausschuss", Deutsche Forschungsgemeinschaft
- Hinrichsen, H.-H.:**
- Member, Senate Commission on Geosciences, Deutsche Forschungsgemeinschaft
 - Member, Executive Board, Leibniz Association, Berlin
 - Chair, Section „Environmental Research“ of the Leibniz Association (WGL)
 - Elected Reviewer, Deutsche Forschungsgemeinschaft
 - Advisor, United Nations International Seabed Authority
 - Member, Board of Governors, Alfred Wegener Institut für Polar- und Meeresforschung, Bremerhaven
- Hinrichsen, H.-H.:**
- Member, ICES Working Group on Modeling of Physical/Biological Interactions.
- Imhoff, J.F.:**
- Chairman, ICBS Subcommittee on the Taxonomy of Phototrophic Bacteria.
 - Scientific steering committee of the International Symposium of Phototrophic Bacteria.
- Jegen, M.:**
- Member, scientific/technical planning group of Polarstern II
 - Member, Ausschuss für Forschungs- und Wissenstransfer an der Universität Kiel
- Karstensen, J.:**
- Member, Data Buoy Cooperation Panel (DBCP)
 - Member, OCEAN Sustained Interdisciplinary Timeseries Environment observation System (OceanSITES)
 - Member, OceanSITES Steering Team
 - Member, OceanSITES Data Management Team
- Krahmann, G.:**
- Member, Scientific Advisory committee Euro-pole Mer, Brest, France
- Kassens, H.:**
- Director, Otto Schmidt Laboratory for Polar and Marine Research, St. Petersburg
 - Chair, Master Program for Applied Marine and Polar Sciences (POMOR)
 - Chair, Wissenschaftlicher Beirat der Deutschen Gesellschaft für Polarforschung
 - Chair, Working group „Arctic Shelf Seas“ of ICARP II (International Conference on Arctic Research Planning)
 - Chair, AOSB Program New Research Generation (NRG)
 - Member, ICARP II Marine Roundtable
 - Member, International Ocean Drilling Program (IODP) Detailed Planning Group 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“
 - Member, Kommission unabhängiger Sachverständiger zur Beurteilung der Umweltauswirkungen von Forschungstätigkeiten in der Antarktis
 - Representative of Deutsche Forschungsgemeinschaft (German Research Foundation), ESF Standing Committee for European Boards for Marine and Polar Sciences
- Krastel-Gudegast, S.:**
- Member, Scientific Technology Panel, IODP.
- Körtzinger, A.:**
- Member, Steering Committee, Integrated School of Ocean Sciences (ISOS), Univ. Kiel
 - Member, Executive Board, "Future Ocean" Excellence Cluster, Univ. Kiel
 - Member, Scientific Advisory Board, Leibniz Institute for Baltic Sea Research, Warnemünde

Appendices

- münde
 - Member, Scientific Steering Group, International Ocean Carbon Coordination Project (IOCCP)
- Latif, M.:**
- Ordentliches Mitglied, Akademie der Wissenschaften in Hamburg
- Lehmann, A.:**
- Member, BALTEX Scientific Steering Group
 - Member, Scientific advisory board, Ozeaneum - Deutsches Meeresmuseum, Stralsund
- Macke, A.:**
- Chair, ZV Hamburg der Deutschen Meteorologischen Gesellschaft
 - Member, Scientific Advisory Board of the German Weather Service
 - Member, Meteosat Third Generation Mission Team
- Nürnberg, D.:**
- Scientific peer-reviewer for the European Science Foundation
- Oschlies, A.:**
- Member, SCOR GEOTRACES Planning Group
- Piatkowski, U.:**
- 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.
 - Member, Cephalopod International Advisory Council (CIAC).
- Quack, B.:**
- Member, Thesis Committee Stefan Raimund, Université de Bretagne Occidentale, Brest, Station Biologique Roscoff, France
- Member, Member of COST Action 735 'Tools for Assessing Global Air-Sea Fluxes of Climate and Air Pollution Relevant Gases' European Concerted Research Action.
 - Member, Steering Committee SHIVA (Stratospheric Ozone: Halogens Impacts in a Varying Atmosphere), EU-Project
- Reusch, T.:**
- Member, Advisory Board DFG-Schwerpunktprogrammes 'Host-parasite coevolution'
 - Member, Advisory Board BMBF-Verbundvorhabens 'Ocean Acidification - Ozeanversauerung- BIOACID'
- Riebesell, U.:**
- Coordinator, German coordinated project on Biological Impacts of Ocean Acidification (BIOACID)
 - Deputy coordinator, European Project on Ocean Acidification (EPOCA)
 - Member, Natural Environment Research Council (NERC) writing group
 - Member, Natural Environment Research Council (NERC) commission
 - Member, Scientific Advisory Board, Chinese project Carbon cycling in China Seas (CHOICE-C)
 - Member, UNESCO-IOC consultative group on Ocean Iron Fertilization
 - Leader of subproject B2, Collaborative Research Centre (SFB 754)
 - Member and coordinator of research topic A1 Ocean Acidification, Excellence Cluster The Future Ocean
 - Theme leader, BMBF Coordinated Project Surface Ocean Processes in the Anthropocene (SOPRAN)
 - Member, SOLAS implementation group Focus 3
 - Member, SOLAS/IMBER Joint Carbon Implementation group
- Referee, German Ministry of Science and Technology (BMBF)
 - Referee, German Science Foundation (DFG)
 - Referee, U.S. National Science Foundation (NSF)
 - Referee, Natural Environment Research Council of the United Kingdom (NERC)
 - Referee, Netherlands Organization for Scientific Research (NWO)
- Rumohr, H.:**
- Member ICES Benthos Ecology Working Group (BEWG)
 - Member, ICES Working Group on Biodiversity
 - Member, Deutsche Wissenschaftliche Kommission für Meeresforschung (DWK).
- Schaber, M.:**
- Member, ICES WGBIFS: Baltic International Fish Survey Working Group
- Schmidt, J.O.:**
- Member, ICES Working Group on Zooplankton Ecology
 - Member, ICES WGZE: Working group on zooplankton ecology
 - Member, ICES PHERS: Planning group for herring surveys
 - Member, ICES HAWG: Herring assessment working group for the area south of 62°N
- Schnack, D.:**
- Member, Scientific Advisory Board, Deutscher Fischereiverband.
- Schönfeld, J.:**
- Secretary, Sub-commission on Cretaceous Stratigraphy, Germany
 - Ordentliches Mitglied, Subkommission für Kreide-Stratigraphie
 - Koordinator, Meteor-Reise M78
- Sommer, U.:**
- Chair, Board of Trustees of the Max-Planck-Institute for Evolutionary Biology, Plön.

Spielhagen, R.F.:

- Member, German Steering Committee, Arctic Paleoclimate and its Extremes (APEX) (IASC Project)

Tanhua, T.:

- Member, Global Ocean Ship-based Hydrographic Investigations Panel (GO_SHIP)
- Member, CLIVAR Global Synthesis and Observation Panel (GSOP)
- Member, The International Ocean Carbon Coordination Project (IOCCP) SSG

Thetmeyer, H.:

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

Visbeck, M.:

- Member, Steuergruppe BMBF Verbundprojekt „ATLANTISCHER OZEAN“
- Member, Network "The Future Ocean" , CAU, Kiel
- Member, RAPID Steering Group (NERC)
- Member, GEO (Group on Earth Observations) science and technology panel
- IOC working group Advisory Body of Experts on the Law of the Sea
- Member, Senatskommission für Ozeanographie
- Speaker, Cluster of Excellence " The Future Ocean"
- Co-Chair of CLIVAR Scientific Steering Group
- Member, Nationales Komitee für Global Change Forschung

Voigt, S.:

- Chair, Sub-commission on Cretaceous Stratigraphy, Germany

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.

Wahl, M.:

- Board of Trustees of Terramare, Wilhelmshaven
- National representative to the Baltic Marine Biologists Committee

Wallace, D.W.R.:

- Chair, International SOLAS programme (IGBP, WCRP, SCOR, CACGP)
- Speaker SFB 754
- Coordinator SOPRAN Project (Surface Ocean Processes in the Anthropocene) National Coordinated Project (BMBF) - Member, Advisory Board, Hanse Wissenschaftskolleg, Delmenhorst
- Member, Advisory Board, Alfred-Wegener-Institut für Polar- und Meeresforschung, Bremerhaven
- Member, Conseils Scientifique, L'Institut Universitaire Européen de la Mer (IUEM), Brest, France
- Member, Steering Committee, UK SOLAS Thematic Programme (NERC), Great Britain
- Core Theme Leader and Steering Committee Member, CARBOOCEAN EU Integrated Project
- Co-Theme Leader "Future Ocean" Excellence Cluster Initiative, University of Kiel
- Member, Management Committee, WG 5 of COST Action 735 "Tools for Assessing Global Air-Sea Fluxes of Climate and Air Pollution Relevant Gases".

- Member, OceanSITES Steering Committee

Waller, U.:

- Member, Deutsche Wissenschaftliche Kommission für Meeresforschung (DWK).

Wegner, C.:

- Chair, ICARP II Marine Roundtable
- Chair, Arctic in Rapid Transition (ART) Initiative
- Member, OMAE Scientific Committee – Coastal Engineering
- Member, Program Management Committee (PMC) of the New Research Generation (NRG) project (AOSB initiative)

Weinrebe, W.:

- Member, Advisory Board, German Hydrographic Society (DHYG)
- Member, wissenschaftlich-technische Arbeitsgruppe Ersatzbau SONNE
- Member, wissenschaftlich-technische Arbeitsgruppe Neubau POLARSTERN II

7.6 Editorial Boards

Bauch, H. A.:

- Quaternary Science Reviews, Paleoceanography (Associate Editor)

Behrmann, J.H.:

- Scientific Drilling (Editorial Board)
- Journal of Geological Research (Editorial Board)

Bialas, J.:

- Marine Geology (Guest Editor).

Böning, C.:

- Ocean Modelling (Editorial Board)

Böttger-Schnack, R.:

- Associate Editor (*Copepodenfamilie Oncaeidæ*), World Register of Marine Species (WoRMS)

Dullo, W.-Chr.:

- International Journal of Earth Sciences, IJES (Editor in Chief)
- Marine Ecology (Associate Editor)
- Facies (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).

Greatbatch, R.:

- Ocean Dynamics (Associate Editor)

Grevemeyer, I.:

- Geophysical Journal International (Editorial Board)

Hoernle, K.:

- Geochemistry, Geophysics, Geosystems (G-cubed) Editor (Theme)

Hoppe, H.-G.:

- Vereinigung für Allgemeine und Angewandte Mikrobiologie: Arbeitsgruppe Wasser/Abwasser.
- Aquatic Microbial Ecology, Germany, (Review Editor).
- The Journal of Microbiology, Korea, (Advisory Board).

Imhoff, J.F.:

- International Microbiology, (Editorial Board).

Karstensen, J.:

- Journal of Operational Oceanography (Editorial Board)

Lehmann, A.:

- Oceanological and Hydrobiological Studies (Editorial Board)

Macke, A.:

- Atmospheric Research (Associate Editor)
- Atmospheric Measurement Techniques (As-

sociate Editor)

- Meteorologische Zeitschrift (Advisory Board)

Oschlies, A.:

- Ocean Dynamics (Editorial Board)
- Ocean Modelling (Editorial Board)

Piatkowski, U.:

- Aquatic Biology (Review Editor)
- Endangered Species Research (Review Editor).

Reusch, T.:

- Conservation Genetics (handling editor)
- Marine Biology (handling editor)

Riebesell, U.:

- Biogeosciences (Co-Editor)
- Guide for Best Practices in Ocean Acidification Research (Chair of the preparing IOC working group)

Santer, B.:

- Redaktionsassistentin Marine Biology, Springer

Schnack, D.:

- Journal of Applied Ichthyology (Editor).

Sommer, U.:

- Protist (Associate Editor).
- Oecologia (Handling Editor).
- International Review of Hydrobiology (Editorial Board).
- Basic and Applied Ecology (Editorial Board).
- Aquatic Sciences (Editorial Board).
- Ecological Studies (Springer) (Series Editor).
- Editor-in-Chief, Marine Biology, Springer

Spielhagen, R. F.:

- Polar Research, Geosciences (Subject Editor)

Tanhua, T., Olsen, A., Hoppema, M., Gouretski, V.:

- Earth System Science Data, CARINA: a consistent carbon-relevant data base for the Arctic, Atlantic and Southern Oceans (Guest editor for a special issue).

7.7 Honors & Awards:

Biastoch, A.:

- Publikationspreis für erfolgreichen Nachwuchs 2009

Glock, N.:

- Posterpreis, GV-Tagung, Göttingen, 05.-07.10.2009

Kassens, H.:

- Ehrenurkunde für den großen persönlichen Beitrag zur wissenschaftlichen Tätigkeit und ihre langjährige fruchtbare Arbeit, Föderale Agentur für Wissenschaft und Innovation des Ministeriums für Bildung und Wissenschaft der Russischen Föderation.
- Ehrenurkunde für den großen persönlichen Beitrag zur erfolgreichen wissenschaftlichen Tätigkeit, Föderaler Dienst für Hydrometeorologie und Monitoring der Umwelt des Ministeriums für Naturschätze und Ökologie der Russischen Föderation

Kiko, R.:

- Special oral presentation award, Third international symposium on the environmental physiology of ectotherms and plants, Tsukuba, Japan, 27.08.2009.

Kock, A.:

- Posterpreis, SOLAS Open Science Conference, Barcelona, Spain

Latif, M.:

- Deutsche Bank – IFM-GEOMAR Meeresforschungspreis 2009

Löscher, C.:

- Posterpreis, SOLAS Summer School, Cargese, Corse, France.

Marandino, C.A.:

- Ausgewählt als Nachwuchswissenschaftlerin im Bereich Chemie für das Lindauer Nobelpreisträger-Treffen, 28.06.09-03.07.09, Lindau, Germany
- Post-Doc-Stipendium der Humboldt-Stiftung

Nov 2009 – Nov 2010

Mohr, W.:

- Poster prize, SOLAS Open Science Conference: High variability in single-cell nitrogen fixation rates, Barcelona, Spain, 16.-19.11.2009.

Silber, J.:

- Fakultätspreis als beste Studierende für das Studienjahr 2008/2009. Fakultätskolloquium der Mathematisch-Naturwissenschaftlichen Fakultät Universität Rostock, 03.12.2009

Steinhoff, T.:

- Posterpreis, 8th International Carbon Dioxide Conference, Jena, 13.-19.09.2009.

Stramma, L.:

- Publikationspreis 2009 IFM-GEOMAR, Kategorie SFBs, IFM-GEOMAR.

Stumpp, M.:

- Poster prize, EMBL Workshop Evo-Devo meets Marine Ecology: New Frontiers in Ocean Science through Integrative Biology, Sant'Angelo d'Ischia, Napoli, Italy, 09.-11.10.2009.

Volkman-Lark, K.:

- Ehrenurkunde für den großen beruflichen Beitrag zum Betrieb und zur Entwicklung, Institut für Arktis- und Antarktisforschung im Namen des Föderalen Dienstes für Hydrometeorologie und Monitoring der Umwelt des Ministeriums für Naturschätze und Ökologie der Russischen Föderation.

Wohlers, J.:

- Publikationspreis für den Fachbereich Marine Biogeochemie, IFM-GEOMAR.

Zindler, C.:

- Promotionsstipendium der Studienstiftung des deutschen Volkes.

7.8 Patents

Imhoff, J.F., Yu, Z., Lang, G., **Wiese, J.**, Kalthoff, H. and S. Klose. Herstellung und Verwendung antitumoraler Cyclodepsipeptide. Anmeldung am 18.01.2008 (DE 10 2008 005 097.0.) Offenlegung am 23.07.2009 (DE 10 2008 005 097 A1) PVA-Nummer: pva 7068.

Imhoff, J.F., Lang, G., Kajahn, I., Peters, A. and **Wiese, J.** Herstellung und Verwendung antitumoraler, antibiotischer und insektizider Cyclopeptide. Anmeldung am 11.06.2009 (DE 10 2009 025 119.7) Offenlegung folgt PVA-Nummer: pva 8015.

8. Teaching Courses

8.1 External teaching courses

Lenz, M.: Lehre im Rahmen des internationalen Master Programms ‚Biodiversity Research and Management‘ an der Universität von Namibia, Windhoek, Namibia, 20.09.-10.10.2009.

Reusch, T. B. H.: Modern Methods in Evolutionary Biology, Institute for Evolution and Biodiversity, Münster, 23.1.-30.1.2009.

Weinberger, F.: Dozent, Ocean University of China. 5th Sino-German Summer School „The Coastal Zone and its Management“, Qingdao, PR China, 18.-25.07.2009.

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. Only contributions by IFM-GEOMAR staff are listed.

W I N T E R - T E R M 2008/2009

Overarching Seminar (all curricula)

Meereswissenschaftliches Kolloquium

Professoren und Dozenten des IFM-GEOMAR

Physics of the Earth System (Meteorology - Oceanography - Geophysics) (Bachelor of Science) (Note: only courses with IFM-GEOMAR staff are listed)

Einführung in die Meteorologie, 3 SWS

Krüger, K.

Regionale Ozeanographie, 2 SWS

Visbeck, M., Brandt, P.

Übung: Regionale Ozeanographie, 2 SWS

Dengler, M., Karstensen, J., Schmidtke, S.

Angewandte Synoptik, 2 SWS

Macke, A., Bumke, K., Martin, T.

Übung: Angewandte Synoptik, 2 SWS

Macke, A., Bumke, K., Martin, T.

Literaturseminar der Meteorologie, Ozeanographie, Geophysik, 2 SWS

Böning, C., Brandt, P., Greatbatch, R., Visbeck, M., Dommenges, D., Biastoch, A., Bumke, K., Dengler, M., Dullo, W.-Ch., Eden, C., Frank, M., Götze, H.-J., Karstensen, J., Kopp, H., Krüger, K., Latif, M., Macke, A., Martin, Th., Nürnberg, D., Rabbel, W., Schmidtke, S.

Angewandte Programmierübungen, 2 SWS

Brandt, P., Dommenges, D., Eden, C.,

Anleitung zu selbständigen wissenschaftlichen Arbeiten, 1 SWS

Latif, M., Macke, A., Dommenges, D., Krüger, K.

Einführung in die Geophysik I, 2 SWS

Kopp, H.

Climate Physics: Meteorology and Physical Oceanography (Master of Science)

Modern Aspects in Atmosphere: „Radiative Transfer and Remote Sensing: Techniques and Applications“, 2 SWS

Macke, A.

Seminar: Modern Aspects in Atmosphere: „Radiative Transfer and Remote Sensing: Techniques and Applications“, 1 SWS

Macke, A.

Modern Aspects in Physical Oceanography, 2 SWS

N.N.

Seminar: Modern Aspects in Physical Oceanography, 1 SWS

N.N.

Geophysical Fluid Dynamics I: Fundamentals, 2 SWS

Greatbatch, R.

Übung: Geophysical Fluid Dynamics I, 2 SWS

Czeschel, L.

Geophysical Fluid Dynamics II: Waves, Instability, Energetics, 2 SWS

Latif, M.

Climate Feedbacks, 2 SWS

Oschlies, A.

Übung: Climate Feedbacks, 2 SWS

Eden, C.

Einführung in die Theoretische Ozeanographie und Meteorologie III: Numerische Methoden in Zirkulationsmodellen, 2 SWS

Böning, C.

Übung: Einführung in die Theoretische Ozeanographie und Meteorologie III, 2 SWS

Biastoch, A.

Advanced Physical Oceanography Seminar 2 SWS

Brandt, P., Greatbatch, R.

Advanced Meteorological Seminar, 2 SWS

Dommenges, D.

Seminar für Diplomanden der Meteorologie, 2 SWS

Macke, A., Dommenges, D., Krüger, K., Latif, M.

Physical Oceanography (Diploma)

Climate Feedbacks, 2 SWS	Oschlies, A.
Übung: Climate Feedbacks, 2 SWS	Eden, C.
Advanced Physical Oceanography Seminar 2 SWS	Brandt, P., Greatbatch, R.
Einführung in die Theoretische Ozeanographie und Meteorologie III: Numerische Methoden in Zirkulationsmodellen, 2 SWS	Böning, C.
Übung: Einführung in die Theoretische Ozeanographie und Meteorologie III, 2 SWS	Biastoch, A.
Geophysical Fluid Dynamics I, 2 SWS	Greatbatch, R.
Übung: Geophysical Fluid Dynamics I, 2 SWS	Czeschel, L.
Seminar für Diplomanden der Physikalischen Ozeanographie, 2 SWS	Böning, C., Visbeck, M., Greatbatch, R., Brandt, P.
Seminar für Doktoranden der Physikalischen Ozeanographie, 2 SWS	Böning, C., Visbeck, M., Greatbatch, R., Brandt, P.

Meteorology (Diploma)

Geophysical Fluid Dynamics II: Waves, Instability, Energetics, 2 SWS	Latif, M.
Geophysical Fluid Dynamics I: Fundamentals, 2 SWS	Greatbatch, R.
Übung: Geophysical Fluid Dynamics I, 2 SWS	Czeschel, L.
Einführung in die Theoretische Ozeanographie und Meteorologie III: Numerische Methoden in Zirkulationsmodellen, 2 SWS	Böning, C.
Übung: Einführung in die Theoretische Ozeanographie und Meteorologie III: Numerische Methoden in Zirkulationsmodellen, 2 SWS	Biastoch, A.
Climate Feedbacks, 2 SWS	Oschlies, A.
Übung: Climate Feedbacks, 2 SWS	Eden, C.
Modern Aspects in Atmosphere: „Radiative Transfer and Remote Sensing: Techniques and Applications“, 2 SWS	Macke, A.
Seminar: Modern Aspects in Atmosphere: „Radiative Transfer and Remote Sensing: Techniques and Applications“, 1 SWS	Macke, A.

Advanced Climate Seminar, 2 SWS

FB1-Seminar

Seminar für Diplomanden der Meteorologie, 2 SWS

Anleitung zum wiss. Arbeiten: „Ozean Atmosphären Wechselwirkung“, 2 SWS

Anleitung zum wiss. Arbeiten: „Strahlungstransport und Fernerkundung“, 2 SWS

Marine Chemistry (Diploma)

Allgemeine Meereschemie I, 2 SWS

Übung: Allgemeine Meereschemie I, 1 SWS

Klimarelevante Spurengase im Ozean, 2 SWS

Biogeochemie ausgewählter Meeresgebiete, 2 SWS

Meereschemisches Praktikum II und Seminar, 4 SWS

Phytoplankton: from genome to ecology, 2 SWS

Dommenget, D.

Brandt, P., Böning, C., Dullo, W.-Ch., Eden, C., Frank, M., Latif, M., Macke, A., Nürnberg, D., Visbeck, M.

Macke, A., Dommenget, D., Krüger, K., Latif, M.

Dommenget, D.

Macke, A.

Wallace, D.W.R.

Wallace, D.W.R., Bange, H.

Bange, H.

Körtzinger, A.

Croot, P., Körtzinger, A., Eisenhauer, A.

LaRoche, J., Croot, P.

Biological Oceanography (Master)

Introduction to Marine Geology, 5 SWS

Introduction to Biological Oceanography, 3 SWS

Biogeochemistry of Marine Sediments II, 1 SWS

Current Topics in Marine Biogeochemistry II, 3 SWS

Seminar: Current Topics in Marine Biogeochemistry II, 2 SWS

Nürnberg, D., Behrmann, J.H., Eisenhauer, A., Flögel, S., Hensen, Ch., Rüggeberg, A., Schönfeld, J., Sommer, S.

Imhoff, J.F., Riebesell, U., Sommer, U., Wahl, M., LaRoche, J., Sommer, F., Garthe, S., Aberle, N., Weinberger, F., Reusch, T., Reijnders, P.

Treude, T.

Riebesell, U., Körtzinger, A.

Riebesell, U., Körtzinger, A.

Appendices

Doing Science, 1 SWS

Übung: Doing Science, 2 SWS

Early Earth Life, Extreme Environments and Astrobiology, 3 SWS

Introduction to Chemical Oceanography, 2 SWS

Introduction to Chemical Oceanography, 1 SWS

Modern Aspects of Oceanography: Chemical, biological and economic aspects of ocean acidification, 3 SWS

Practical Course in Biological Oceanography, 1 SWS

Practical Course in Biological Oceanography, Master (MNF-bioc-102), 12 SWS

Biodiversity of Fishes, 2 SWS

Seminar: Current Topics in Fish Ecology, 2 SWS

Seminar: Current Topics in Marine Ecology II, 2 SWS

Current Topics in Marine Ecology II, 3 SWS

Fish Systematic, Biology and Evolution, 1 SWS

Evolutionsökologie Marine Fische, 1 SWS

ISOS Lecture Series „The Future Ocean“, 1 SWS

Wahl, M., Wallace, D.W.R., Lenz, M., Sommer, F., Körtzinger, A., Werner, I.

Wahl, M., Wallace, D.W.R., Lenz, M., Sommer, F., Körtzinger, A., Werner, I.

Treude, T.

Wallace, D.W.R.

Wallace, D.W.R., Croot, P.

Melzner, F.

Piatkowski, U., Sommer, U., Wahl, M., Rumohr, H., Spindler, M., Schiel, S., Reijnders, P., Hanel, R., Reutsch, T., von Bröckel, K., Oschlies, A.

Piatkowski, U., Sommer, U., Wahl, M., Rumohr, H., Spindler, M., Schiel, S., Reijnders, P., Hanel, R., Reutsch, T., von Bröckel, K., Oschlies, A.

Froese, R.

Clemmesen-Bockelmann, C., Reusch, T.

Sommer, U.

Sommer, F., Javidpour, J., Matthiessen, B., Moline-ro, J.C.

Hanel, R.

Reusch, T.

Antia, A.

Biology (Diploma)

Einführung in die Meeresbiologie	Sommer, U., Imhoff, J.F., Wahl, M., Riebesell, U., Reusch, T.
Meereschemisches Praktikum I mit Seminar, 4 SWS	Körtzinger, A., Bange, H..
Seminar Biogeochemische Modellierung, 2 SWS	Oschlies, A.
Seminar der Marinen und Molekularen Mikrobiologie, 2 SWS	Imhoff, J.F.
Seminar für Diplomanden und Doktoranden, 2 SWS	Imhoff, J.F.

Geosciences (only courses with IFM-GEOMAR staff are listed)

Geowissenschaften (Bachelor of Science)

Einführung in die Methoden der Stratigraphie (Modul MNF-geow-1), 1 SWS	Dullo, W.-Ch., Nürnberg, D.
Übung: Kartenkunde (Modul MNF-geow-5), 2 SWS	Nürnberg, D., Blanz, Th., v.d. Straaten, F., Regen- berg, M.
Einführung in die Paläozooanographie, 2 SWS	Schneider, R., Nürnberg, D.
Einführung in die Geophysik I, 2 SWS	Kopp, H.
Einführung in die Tektonik: a) Plattentektonik, 2 SWS	Behrmann, J.H.
Tektonik / Strukturgeologie, 2 SWS	Behrmann, J.H.
Petrologie-Geochemie	
Einführung in die Geochemie der Gesteine, 2 SWS	Hoernle, K.
Magmatismus der Erde mit mikroskopischen Übungen, 3 SWS	Hansteen, Th.
Geologie Hauptstudium (Diplom)	
Allgemeine Geowissenschaften	
Blockkurs Geologische Übungen II (Kartenkunde I), 2 SWS	Devey, C.W.
Seminar: Geochemie und Petrologie magmatischer Systeme, 3 SWS	Hoernle, K.

Allgemeine und Historische Geologie

Einführung in die Becken-Modellierung, 4 SWS

Einführung in die Geochemie der Gesteine, 2 SWS

Magmatismus der Erde mit mikroskopischen Übungen, 3 SWS

Petrologie-Geochemie

Petrologie und Hydrothermalismus der Ozeankruste, 2 SWS

Sedimentologie und Paläozeanographie

Einführung in die Paläoklimamodellierung, 2 SWS

Einführung in die marine Geochemie, 2 SWS

Einführung in die Erdöl- und Erdgasgeologie, 2 SWS

Seminar für Diplomanden und Doktoranden: Aktuelle Forschungsergebnisse der marinen Geologie, 1 SWS

Seminar: Fortschritte der Karbonatsedimentologie für Diplomanden und Doktoranden, 2 SWS

Seminar: Isotopengeochemie von Spurenmetallen im Meerwasser, 2 SWS

Forschungs-Seminar: Aktuelle Themen in der Paläoklimaforschung, 2 SWS

Marine Umweltgeologie

Einführung in die marine Geochemie I, 2 SWS

Marine-Isotopen Systeme, V/UE, 4 SWS

Petrologie-Geochemie (Mineralogie)

Seminar: Schmelzeinschlüsse in magmatischen Mineralen, 2 SWS

Rüpke, L.

Hoernle, K.

Hansteen, Th.

Devey, C.W., Lackschewitz, K., Petersen, S.

Flögel, S., Dullo, W.-Ch., Schneider, B.

Wallmann, K.

Dullo, W.-Ch.

Frank, M.

Dullo, W.-Ch., Frank, M.

Frank, M.

Schneider, R., Nürnberg, D., N.N.

Wallmann, K.

Eisenhauer, A.

Hansteen, Th.

S U M M E R - T E R M 2009

Overarching Seminar (all curricula)

Meereswissenschaftliches Kolloquium

Professoren und Dozenten des IFM-GEOMAR

Physics of the Earth System (Meteorology - Oceanography - Geophysics) (Bachelor of Science) (Note: only courses with IFM-GEOMAR staff are listed)

Einführung in die Geophysik II, 2 SWS

Rabbel, W., Götze, H.-J., Mahatsente, R., Schmidt, S., Stümpel, H., Kopp, H.

Praktikum zur Einführung in die Geophysik II, 1 SWS

Rabbel, W., Götze, H.-J., Mahatsente, R., Schmidt, S., Stümpel, H., Kopp, H.

Geoelektrik, EMI, GPR, 4 SWS

Rabbel, W., Jegen-Kulcsar, M., Thorwart, M.

Atmosphären- und Ozeandynamik, 2 SWS

Böning, C.

Übung zur Atmosphären- und Ozeandynamik, 2 SWS

Biastoch, A.

Klimaphysik, 2 SWS

Latif, M.

Übung: Klimaphysik, 2 SWS

Martin, T.

Ozeanphysik, 2 SWS

Brandt, P.

Übung: Ozeanphysik, 2 SWS

Dengler, M., Schmidtko, S.

Introduction to Physical Oceanography, 3 SWS

Greatbatch, R., Visbeck, M., Dengler, M.

Messmethoden der Ozeanographie, 2 SWS

Kanzow, T., Brandt, P., Visbeck, M., Fischer, J., Dengler, M.

Feldpraktikum: Messmethoden der Ozeanographie, 3 SWS

Karstensen, J.

Messmethoden der Meteorologie, 2 SWS

Macke, A.

Feldpraktikum: Messmethoden der Meteorologie, 3 SWS

Bumke, K.

Anleitung zum wissenschaftlichen Arbeiten, 1 SWS

Latif, M., Macke, A., Dommenges, D., Krüger, K.

Climate Physics: Meteorology and Physical Oceanography (Master of Science)

Modern Aspects in Oceanography IV, 2 SWS	Greatbach, R.
Seminar zu Modern Aspects in Oceanography IV, 1 SWS	Greatbach, R.
Regional Climate, 2 SWS	Visbeck, M.
Übung: Regional Climate, 1 SWS	Kanzow, T.
Data Analysis, 2 SWS	Dommenget, D.
Übung: Data Analysis, 2 SWS	Dommenget, D.
Modern Aspects in Meteorology III: The Stratosphere, 2 SWS	Krüger, K.
Seminar: Modern Aspects in Meteorology III: The Stratosphere, 1 SWS	Krüger, K.
FB1-Seminar	Böning, C., Dullo, W.-Ch., Eden, C., Frank, M., Latif, M., Macke, A., Nürnberg, D., Visbeck, M., Brandt, P., Krüger, K.
Oz.-Met. Climate Seminar, 2 SWS	Böning, C., Krüger, K.
Master Seminar, 2 SWS	Visbeck, M., Brandt, P., Böning, C., Latif, M., Kan- zow, T.

Physical Oceanography (Diploma)

Atmosphären- und Ozeandynamik, 2 SWS	Böning, C.
Übung zur Atmosphären- und Ozeandynamik, 2 SWS	Biastoch, A.
Modern Aspects in Oceanography IV, 2 SWS	Greatbach, R.
Seminar zu Modern Aspects in Oceanography IV, 1 SWS	Greatbach, R.
FB1-Seminar	Böning, C., Dullo, W.-Ch., Eden, C., Frank, M., Latif, M., Macke, A., Nürnberg, D., Visbeck, M., Brandt, P., Krüger, K.
Oz.-Met. Climate Seminar, 2 SWS	Böning, C., Krüger, K.

Seminar für Diplomanden der Physikalischen Ozeanographie, 2 SWS

Böning, C., Visbeck, M., Greatbatch, R., Brandt, P., Kanzow, T.

Seminar für Doktoranden der Physikalischen Ozeanographie, 2 SWS

Böning, C., Visbeck, M., Brandt, P., Greatbatch, R., Kanzow, T.

Biological Modelling and Biostatistics, 6 SWS

Oschlies, A., Lenz, M.

Seminar Biogeochemische Modellierung, 2 SWS

Oschlies, A.

Meteorology (Diploma)

Atmosphären- und Ozeandynamik, 2 SWS

Böning, C.

Übung zur Atmosphären- und Ozeandynamik, 2 SWS

Biastoch, A.

Data Analysis, 2 SWS

Dommenget, D.

Übung: Data Analysis, 2 SWS

Dommenget, D.

Modern Aspects in Meteorology III: The Stratosphere, 2 SWS

Krüger, K.

Seminar: Modern Aspects in Meteorology III: The Stratosphere, 1 SWS

Krüger, K.

Messmethoden der Meteorologie, 2 SWS

Macke, A.

Feldpraktikum: Messmethoden der Meteorologie, 3 SWS

Bumke, K.

FB1-Seminar

Böning, C., Dullo, W.-Ch., Eden, C., Frank, M., Latif, M., Macke, A., Nürnberg, D., Visbeck, M., Brandt, P., Krüger, K.

Seminar für Diplomanden der Meteorologie, 2 SWS

Macke, A., Dommenget, D., Krüger, K., Latif, M.

Oz.-Met. Climate Seminar, 2 SWS

Böning, C., Krüger, K.

Anleitung zum wiss. Arbeiten: „Ozean Atmosphären Wechselwirkung“, 2 SWS

Dommenget, D.

Anleitung zum wiss. Arbeiten: „Strahlungstransport und Fernerkundung“, 2 SWS

Macke, A.

Marine Chemistry (Diploma)

Allgemeine Meereschemie II, 2 SWS
Übung: Allgemeine Meereschemie II, 1 SWS
Biological Modelling and Biostatistics, 6 SWS
Aktuelle Themen der Meereschemie, 1 SWS
Meereschemisches Praktikum I mit Seminar, 4 SWS
Meereschemisches Praktikum II und Seminar, 4 SWS
Seminar Biogeochemische Modellierung, 2 SWS
Anleitung zum selbständigen wissenschaftlichen Arbeiten
Stoffkreisläufe im Meer, 1 SWS
Trace Metal Speciation and Bioavailability in the Marine Environment, 2 SWS

Wallace, D.W.R.
Wallace, D.W.R.
Oschlies, A., Lenz, M.
Wallace, D.W.R., Körtzinger, A.
Körtzinger, A., Bange, H.
Croot, P.
Oschlies, A.
Wallace, D.W.R., Körtzinger, A., Bange, H., Croot, P.
Bange, H.
Croot, P.

Biological Oceanography (Master)

Biogeochemical Cycles and Earth System Science, 2 SWS
Biogeochemistry of Marine Sediments I, 2 SWS
Biological Modelling and Biostatistics MNF-bioc-220, 6 SWS
Current Topics in Marine Biogeochemistry I, 2 SWS
Seminar: Current Topics in Marine Biogeochemistry I, 2 SWS
Seminar: How to write and publish a scientific paper, 1 SWS
Marine Animal Physiology II - Fascinating New Research Topics in Marine Animal Physiology, 2 SWS
Seminar Biogeochemische Modellierung, 2 SWS
Advanced Course in Biological Oceanography MNF-bioc 201 Lecture, 3 SWS

Oschlies, A., Wirtz, K.W.
Merico, A., Lemmen, C.
Treude, T.
Oschlies, A., Lenz, M.
Riebesell, U., Körtzinger, A.
Riebesell, U., Körtzinger, A.
Treude, T.
Melzner, F.
Oschlies, A.
Sommer, U., Imhoff, J.F., Riebesell, U., LaRoche, J.
Reusch, T., Weinberger, F., Piepenburg, D., Garthe, S.,
Siebert, U., Wahl, M., Eizaguirre, C.

Advanced Course in Biological Oceanography MNF-bioc-201 Literature research, 1 SWS

N.N.

Advanced Course in Biological Oceanography MNF-bioc-201 Practical, Part A, 5 SWS

Reusch, T., Wahl, M., Melzner, F., Weinberger, F., Eizaguirre, C.

Advanced Course in Biological Oceanography MNF-bioc-201 Practical, Part B, 5 SWS

Sommer, U., Riebesell, U., Matthiessen, B., Aberle, N.

Advanced Course in Biological Oceanography MNF-bioc-201 Practical, Part C, 5 SWS

Imhoff, J.F., LaRoche, J., Süling, J.

Seminar Current Topics in Marine Ecology I (MNF-bioc 232), 2 SWS

Sommer, U., Wahl, M.

Current Topics in Marine Ecology I (MNF-bioc-232), 3 SWS

N.N.

Seminar Evolutionsökologie Mariner Fische, 1 SWS

Reusch, T., Eizaguirre, C.

Biology (Diploma)

Biological Modelling and Biostatistics MNF-bioc-220, 6 SWS

Oschlies, A., Lenz, M.

Seminar Biogeochemische Modellierung, 2 SWS

Oschlies, A.

Seminar der Marinen und Molekularen Mikrobiologie, 2 SWS

Imhoff, J.F.

Bestimmungsübungen an Meerestieren mit Exkursion, 4 SWS

Gonschior, H., Wahl, M.

Geosciences (only courses with IFM-GEOMAR staff are listed)

Geowissenschaften (Bachelor of Science)

Einführung in die Geophysik II, 2 SWS

Rabbel, W., Götze, H.-J., Mahatsente, R., Schmidt, S., Stümpel, H., Kopp, H.

Übung: Einführung in die Geophysik II, 1 SWS

Rabbel, W., Götze, H.-J., Mahatsente, R., Schmidt, S., Stümpel, H., Kopp, H.

Tektonische Gefügekunde, 2 SWS

Behrmann, J.

Geowissenschaftliches Grundstudium (Diplom)

Allgemeine Geowissenschaften

Seminar: Geochemie und Petrologie magmatischer Systeme, 3 SWS

Hoernle, K.

Appendices

Geologie Hauptstudium (Diplom)

Allgemeine und Historische Geologie

Dynamik von Subduktionszonen, 2 SWS

Finite Element Modeling of Mantle Convection, 2 SWS

Tektonische Gefügekunde, 2 SWS

Petrologie-Geochemie (Geologie)

Isotopengeochemie und Altersbestimmung, 2 SWS

Magmatische Prozesse und Plattentektonik, 2 SWS

Physische Vulkanologie, 2 SWS

Schmelzeinschlüsse in magmatischen Mineralien, 2 SWS

Sedimentologie und Paläoozeanographie

Die Kreide Mitteleuropas, 2 SWS

Foraminiferen-Geochemie: Anwendungen für Paläoumwelt-Rekonstruktionen, 1 SWS

Isotopenstratigraphie, 3 SWS

Seminar für Diplomanden und Doktoranden: Aktuelle Forschungsergebnisse der marinen Geologie, 1 SWS

Seminar IIIa: Karbonatsedimentologie für Diplomanden und Doktoranden, 2 SWS

Marine Umweltgeologie

Einführung in die marine Geochemie II, 2 SWS

Seminar: Modellierung biogeochemischer Prozesse, Blockveranstaltung

Exkursionen

Geologie der Albula Querzone: Stratigraphie und Tektonik zwischen Unter- und Oberostalpin. Geländeaufnahme

Marine Geosciences (Master of Science)

Seminar: Isotopengeochemie von Spurenmetallen im Meerwasser (in engl. Sprache), 2 SWS

Behrmann, J.H.

Rüpke, L.

Behrmann, J.

Hoernle, K., Halama, R.

Hoernle, K.

Freundt, A., Kutterolf, S.

Hansteen, T.

Schönfeld, J.

Nürnberg, D.

Frank, M.

Frank, M.

Dullo, W.-Ch., Frank, M.

Wallmann, K.

Haeckel, M., Hensen, C.

Dullo, W.-Ch.

Frank, M., Eisenhauer, A.,

9. Acronyms

AABW	Antarctic Bottom Water	BASIC	Baltic Sea cyanobacteria	CIESM	Commission internationale pour l'exploration scientifique de la mer Méditerranée
AAIW	Antarctic Intermediate Water	BASYS	Baltic Sea System Study		
AARI	Institut für Arktis- und Antarktisforschung St. Petersburg/Russia	BATS	Bermuda Atlantic Time series Study	CIMAS	Cooperative Institute for Marine and Atmospheric Studies, Miami, USA
		BECAUSE	Critical Interactions BETWEEN Species and their Implications for a PreCAUTIONary	CIRAMOS	Compilation of regional cirrus macro- and microphysical properties
ACC	Antarctic Circumpolar Current			CLIVAR	Climate Variability and Predictability Programme (WCRP)
ACME	Advisory Committee for the Environment	BEQUALM	Biological effects quality assurance in monitoring programmes	CLIWA-Net	Cloud Liquid Water Network (BALTEX)
ACSYS	Arctic Climate System Study	BfA	Bundesforschungsanstalt für Fischerei	CNRM	Centre National de Recherches Meteorologiques
ADCP	Acoustic Doppler Current Profiler	BfN	Bundesamt für Naturschutz	CMS	Commission on Moving Species
AGCM	Atmospheric General Circulation Model	BGR	Bundesanstalt für Geowissenschaften und Rohstoffe	COADS	Comprehensive Ocean-Atmosphere Data Set
AGU	American Geophysical Union	BIO	Bedford Institute for Oceanography	CoML	Census of Marine Life
AMAM	Automated nutrient analysis	BioCoMBE	The Impact of Biodiversity Changes in Coastal Marine Benthic Ecosystems	COMWEB	Comparative analysis on coastal planktonic food webs
AMMA	African Monsoon Multidisciplinary Analyses	BMBF	Bundesministerium für Bildung und Forschung	CRCES	Center for Research on the Changing Earth System
AMOC	Atlantic Meridional Overturning Circulation	BMVEL	Bundesministerium für Verbraucherschutz, Ernährung und Landwirtschaft	CRIMP	Center of Research on Marine Introduced Pests (Australia)
AMS	American Meteorological Society			CSIRO	Commonwealth Scientific & Industrial Research Organisation (Australia)
AMSU	Advanced Microwave Sounding Unit			CTD	Conductivity-Temperature-Depth
ANIMATE	Atlantic Network of Interdisciplinary Moorings and Timeseries for Europe	BSH	Bundesanstalt für Seeschifffahrt und Hydrographie	DACH	Deutsch-Österreichisch-Schweizerische Meteorologentagung
AOSB	Arctic Ocean Sciences Board	BSR	Bottom-Simulating-Reflector	DCESS	Danish Centre for Earth System Science
APEX	Arctic Paleoclimate and its Extremes	BSSC	Building Seismic Safety Council	DFG	Deutsche Forschungsgemeinschaft (German Research Council)
ART	Arctic in Rapid Transition Initiative	CACGP	Commission for Atmospheric Chemistry and Global Pollution	DGG	Deutsche Geologische Gesellschaft
ASFA	Aquatic Sciences and Fisheries Abstracts	CARINA	Carbon dioxide in the Atlantic Ocean	DGHM	Deutsche Gesellschaft für Hygiene und Mikrobiologie
ASLO	American Society of Limnology and Oceanography	CAU	Christian-Albrechts-Universität zu Kiel	DGL	Deutsche Gesellschaft für Limnologie
AtlantNIRO	Atlantic Scientific Research Institute of Marine Fisheries and Oceanography, Russia, Kaliningrad, Russia	CAVA	Central American Volcanic Arc	DGM	Deutsche Gesellschaft für Meeresforschung
		CAVASSOO	Carbon variability studies by ships of opportunity	DGP	Deutsche Gesellschaft für Protozoology
AUV	Autonomous Underwater Vehicle	CCCC	Climate Change and Carrying Capacity	DIFRES	Danish Institute for Fisheries
AVHRR	Advanced Very High Resolution Radiometer	CCMVal	Chemistry-Climate Model Validation		
AWI	Alfred Wegener Institut für Polar- und Meeresforschung, Bremerhaven	CCRC	Climate Change Research Centre		
BAHC	Biospheric Aspects of the Hydrological Cycle (IGBP)	CDIAC	Carbon Dioxide Information Analysis Center, Oak Ridge, USA		
BALTEX	Baltic Sea Experiment	CEFAS	Centre for Environment, Fisheries and Aquaculture Science, Lowestoft, UK		
BALTIMOS	BALTEX - Integral Model System	CFCAS	Canadian Foundation for Climate and Atmospheric Sciences (CDN)		

Appendices

DIGENIT	Research, Lyngby, Denmark Diversität nitratreduzierender Bakterien (BMBF Project)	ESTOC	European Station for Time-Series in the Ocean Canary Islands	GV	Geologische Vereinigung
DIVA	Latitudinal gradients of deep-sea bioDIVERSity in the Atlantic Ocean	ETA AAS	Atomic Absorption Spectroscopy using Electrothermal Atomisation	HELCOM	Helsinki Commission (Baltic Marine Environment Protection Commission)
DLR	Deutsche Gesellschaft für Luft- und Raumfahrt	EU	European Union	HERSUR	Herring Survey Programme (EU)
DMG	Deutsche Meteorologische Gesellschaft	EUAC	European Union of Aquarium Curators	HYDROARC	Hydrothermale Prozesse an flach- marinen Vulkanen der Bransfield Strasse
DMS	Dimethyl sulphide	EUC	Equatorial Undercurrent	HYFIFLUX	Hydrothermal fluid development, material balancing and special biological activity in the North Fiji Basin
DMSP	dimethyl sulfonium propionate	EULIT	Effects of eutrophicated seawater on rocky shore ecosystems studied in large littoral mesocosms	IABO	International Association for Biological Oceanography
DOMINOE	Dissolved organic matter as a component of ocean ecosystem and carbon cycle	EURASLIC	European Association of Aquatic Libraries and Information Centres	IACS	International Association for the Cryospheric Sciences
DON	Dissolved organic nitrogen	FB	Forschungsbereich	IAMAP	International Association of Meteorology and Atmospheric Physics
DPG	Differential Pressure Gauge	FEB RAS	Far Eastern Branch of the Russian Academy of Sciences	IAMAS	International Association of Meteorology and Atmospheric Sciences
DWBC	Deep Western Boundary Current	FEOM	Finite-Elemente Ozean Model	IAPSO	International Association for the Physical Science of the Oceans
DWD	Deutscher Wetterdienst	FLAME	Family of Linked Atlantic Model Experiments	IASC	International Arctic Science Committee
DWK	Deutsche Wissenschaftliche Kommission für Meeresforschung	FTZ	Forschungs- und Technologiezentrum der CAU, Büsum	IBM	Individual-based models
DYNAMO	Dynamics of North Atlantic Models	GAME	Global Approach by Modular Experiments	ICARP	International Conference on Arctic Research Planning
EARSeL	European Association of Remote Sensing Laboratories	GBB	Great Bahama Bank	ICBM	Institut für Chemie und Biologie des Meeres, Universität Oldenburg
EAS	European Aquaculture Society	GBIF	Global Biodiversity Information Facility	ICBS	International Committee on Systematic Bacteriology
EASIZ	Ecology of the Antarctic Sea Ice Zone	GCMs	General Circulation Models	ICCM	Instituto Canario de Ciencias Marinas, Las Palmas, Spain
ECCO	Estimating the Circulation of the Ocean	GeoB	Institut für Geowissenschaften, Univ. Bremen	ICES	International Council for the Exploration of the Seas
ECMWF	European Centre for Medium Range Weather Forecasts	GEWEX	Global Energy and Water Cycle Experiment	ICHCA	International Cargo Handling Co- ordination Association
ECOSIM	Ecosystem Simulation	GfÖ	Gesellschaft für Ökologie	IEO	Instituto Español de Oceanografía
EEA	European Elasmobranch Association	GFZ	Geoforschungszentrum Potsdam	IfM	Institut für Meereskunde
EGU	European Geosciences Union	GHSZ	Gas Hydrate Stability Zone German Israel Foundation	IFREMER	Institut Français de Recherche pour l'Exploitation de la Mer, Brest, France
EIFAC	European Inland Fisheries Advisory Commission	GITEWS	German-Indonesian Tsunami Early Warning Sytem	IFT	Leibniz-Institut für Tropospherenforschung
ELOISE	European Land Ocean Interaction Analysis	GKSS	Gesellschaft für Kernenergieverwertung in Schiffbau und Schifffahrt (Forschungszentrum Geesthacht)	IGBP	International Geosphere-Biosphere Programme
EMAPS	European Marine and Polar Sciences	GLOBEC	Global Ocean Ecosystems Dynamics	IGOOS	IOC-WMO-UNEP Committee for GOOS
EMBS	European Marine Biology Symposium	GOOS	Global Ocean Observing System		
ENBI	European Network of Biodiversity Information	GPI	Geologisch-Paläontologisches Institut		
ERA-40	ECMWF 40 Year Re-analysis	GRACE/OBP	Gravity Recovery And Climate Experiment		
ESF	European Science Foundation	GSF	Forschungszentrum für Umwelt und Gesundheit (BMBF Projektträger)		
ESONET	European Sea Floor Observatory Network				
ESRIN	European Space Research Institute				
ESTEC	European Space Research and Technology Centre				

IHLS	International Herring Larvae Survey (ICES)	MARBEF	Marine Biodiversity and Ecosystem Functioning EU Network of Excellence	NSERC	National Science and Engineering Research Council (CDN)
IMAU	Institut für Marine and Atmospheric Research Utrecht, The Netherlands	MARE	Marine Artificial Recirculated Ecosystem	NSF	National Science Foundation, USA
IMO	International Maritime Organization	MATER	Mediterranean Targeted Project-Mass Transfer and Ecosystem Response	OBH	Ocean Bottom Hydrophones
INQUA-Morss	International Union for Quaternary Research-Morss	MOC	Meridional Overturning Circulation	OBIS	Ocean Biogeographic Information System
INTAS	International Association (of EU)	MOVE	Meridional Overturning Variability Experiment	OBS	Ocean-Bottom-Seismometers
IOC	Intergovernmental Oceanographic Commission	MPIfM	Max-Planck Institut für Meteorologie	OBU	Ocean-Bottom-Unit
IODP	Integrated Ocean Drilling Program	MRI	Marine Research Institute, Reykjavik, Iceland	OCTOPUS	Ocean Tomography Operational Package and Utilization Support
IOW	Institut für Ostseeforschung, Warnemünde	MSG-IR	Meteosat Second Generation-Infrared	OMAE	Offshore Mechanics and Arctic Engineering
IPCC	Intergovernmental Panel on Climate Change	NAC	North Atlantic Current	OMEX	Ocean Margin Exchange
IPIMAR	Instituto de Investigação das Pescas e do Mar, Lisboa	NADW	North Atlantic Deep Water	OPAC	Online Public Access Catalogue
IPRC	International Pacific Research Institute, Honolulu, USA	NAFO	Northwest Atlantic Fisheries Organization	ORNL	Oak Ridge National Laboratory, Oak Ridge, USA
IRCCM	International Research Consortium for Continental Margins	NAO	North Atlantic Oscillation	OSPAR	Convention for the Protection of the Marine Environment of the North-East Atlantic (Oslo-Paris)
IRONAGES	Iron Resources and Oceanic Nutrients-Advancement of Global Environment Simulations	NATO	North Atlantic Treaty Organization	PAGES/IMAGES	Past Global Changes/International Marine Global Change Studies
ISCCP	International Satellite Cloud Climatology Project	NBUC	North Brazil Undercurrent	PAH	Polycyclic Aromatic Hydrocarbons
ITCZ	Intertropical Convergence Zone	NCAR	National Center for Atmospheric Research, Boulder, USA	PARS	Precision and accuracy of tools in recruitment studies (Eu-Project)
IUB	International University Bremen	NCEP	National Center for Environmental Prediction (NOAA)	PCB	Polychlorinated biphenyl
IUGG	International Union of Geodesy and Geophysics	NEMO	Nucleus for European Modelling of the Ocean	PDF	Probability Density Function
KALMAR	Kurile-Kamchatka and Aleutian Marginal Sea-Island Arc Systems	NERC	National Environmental Research Council	PEP	Pilot Study of Evaporation and Precipitation (BALTEX)
KNMI	Koninklijk Nederlands Meteorologisch Instituut, de Bilt, The Netherlands	NEUC/SEUC	North Equatorial Undercurrent / South Equatorial Undercurrent	PIK	Potsdam Institute für Klimafolgenforschung, Potsdam
LATFRI	Latvian Fisheries Research Institute	NIOZ	Nederlandse Instituut voor Onderzoek der Zee, The Netherlands	POC	Particulate Organic Carbon
LIP	Large Igneous Provinces	NIWA	National Institute of Water and Atmospheric Research (NZ)	POGO	Partnership for Observations of the Global Oceans
LOICZ	Land Ocean Interactions in the Coastal Zone (IGBP component)	NOAA	National Oceanic and Atmospheric Administration	POLMARF	Polish Marine Fishery Science Center
LSW	Labrador Sea Water	NOAA-AOML	National Oceanic and Atmospheric Administration – Atlantic Oceanographic and Meteorological Laboratory, Miami, USA	PON	Particulate Organic Nitrogen
MACOM	Maternal effects on Atlantic cod recruitment and implications for management strategies (EU Project)	NOCS	National Oceanography Centre, Southampton, UK	PR	Public Relations
MAR	Mid Atlantic Ridge	NOCES	Northern Ocean-Atmosphere Carbon Exchange Study	PTJ	Projektträger Jülich (BMBF)
MAR-ECO	Project Patterns and Processes of the Ecosystem of the Northern Mid-Atlantic	NOW	Nederlandse Organisatie voor Wetenschappelijk Onderzoek	RAS	Russian Academy of Sciences
				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

Appendices

SAB	Atmospheric Sciences, Miami, USA	TEWS	Tsunamis Early Warning System
SAGA	Scientific Advisory Board	THC	Thermohaline Circulation
SAMOC	South African Geophysical Association	THOR	Thermohaline Overturning – at Risk?
	South Atlantic Meridional Overturning Circulation	TLC / TLZ	Technology and Logistic Center (Technik- und Logistik Zentrum)
SAP	Sustainable Fisheries: Assessment and Prediction (EU project)	UBA	Umweltbundesamt
SCAR	Scientific Committee on Antarctic Research	VAAM	Vereinigung für Allgemeine und Angewandte Mikrobiologie e.V.
SCOR	Scientific Committee on Oceanic Research	VOS	Voluntary Observing Ships
SDN	Schutzgemeinschaft Deutsche Nordseeküste	WAS	World Aquaculture Society
SETAC	Society of Environmental Toxicology and Chemistry	WCRP	World Climate Research Programme
SFB	Sonderforschungsbereich (Collaborative Research Center)	WDC-MARE	World Data Center for Marine Environmental Data
SGMSNS	Study Group on Multispecies Assessments in the North Sea	WGEIM	Working Group on Environmental Interactions of Aquaculture
SIL	Societas Internationalis Limnologiae	WGL	Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz
SIO	Scripps Institution of Oceanography, La Jolla, USA	WGNE	Working Group on Numerical Experimentation
SMHI	Swedish Meteorological and Hydrological Institute	WGOMD	Working Group on Ocean Model Development
SODA	Simple Ocean Data Assimilation	WGSF	Working Group on Surface Fluxes
SOIREE	Southern Ocean Iron RElease Experiment	WHOI	Woods Hole Oceanographic Institution, Woods Hole, USA
SOLAS	Surface Ocean Lower Atmosphere Study	WMO	World Meteorological Organization
SOMARE	Sampling, Observations & Modelling of Atlantic Regional Ecosystems	WOCE	World Ocean Circulation Experiment
SOPRAN	Surface Ocean Processes in the Anthropocene	WTZ	Wissenschaftlich-Technische Zusammenarbeit (BMBF)
SPACC	Small Pelagic Fishes and Climate Changes	XBT	Expendable Bathythermograph
SPARC	Stratospheric Processes And their Role in Climate	ZMAW	Zentrum für Marine und Atmosphärische Wissenschaften (Hamburg)
SPP	Special Priority Program (DFG)	ZMK	Zentrum für Meeres- und Klimaforschung der Universität Hamburg
SRON	Netherlands Institute for Space Research	ZUFO	Zentrum für Umweltforschung
SSA	Scientific Support Action		
SSTC	Shallow Subtropical Cell		
SV	Sverdrup (106 km ³ /s)		
TACE/PIRATA	Tropical Atlantic Climate Experiment		
TAR	Third Assessment Report (IPCC)		
TAV	Tropical Atlantic Variability		