

Curriculum Vitae

Dr. habil. Volker Rachold

Born 2 July 1964
Married, two children

CONTACT INFORMATION

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SUMMARY OF QUALIFICATIONS

- ❑ Science Manager with thirteen years international experience in developing and coordinating international, multi-disciplinary research activities and projects
 - Insight into Arctic problems and policy issues
 - Experience in science-policy knowledge transfer
 - Membership in various high-level international committees
 - [Co-]Organizer of numerous international conferences and workshops
 - Considerable network of international contacts
- ❑ Senior researcher [geochemist] with extensive experience in international Arctic research
 - Author and editor of numerous scientific papers, reports and special issues focussing on Arctic land-ocean interactions
 - Reviewer for scientific journals and funding agencies
 - Chief scientist of eight German-Russian expeditions
 - Head of Laboratory
 - University lecturer and supervisor of several PhD and graduate students
 - "Habilitation" = German qualification for professorship

WORK HISTORY

- 2017- Head, German Arctic Office, Alfred Wegener Institute, Helmholtz Center for Polar and Marine Research
- 2009-2016 Executive Secretary, International Arctic Science Committee (IASC), Potsdam, Germany
- 2006-2008 Executive Secretary, International Arctic Science Committee (IASC), Stockholm, Sweden
- 2003-2005 Senior Researcher at Alfred Wegener Institute, Research Unit Potsdam, Germany
- 2001-2003 Senior Researcher at Alfred Wegener Institute, Research Unit Potsdam, Germany [office located at Alfred Wegener Institute, Bremerhaven, Germany]
- 1998-2001 Senior Researcher at Alfred Wegener Institute, Research Unit Potsdam, Germany
- 1994-1998 Research Associate [PostDoc] at Alfred Wegener Institute, Research Unit Potsdam, Germany
- 1991-1994 Research Associate [PhD student] at Göttingen University, Germany

EDUCATION

- 2002 Habilitation at Potsdam University [Germany], Geochemistry
Thesis: „Sediment Pathways and Budgets of the Laptev Sea Region, Siberian Arctic - Implications for Arctic Land-Ocean Interactions“
- 1994 Dissertation [PhD] at Göttingen University [Germany], Geochemistry
Thesis: „Geochemistry of Lower Cretaceous sediments of NW-Germany: Cycles and Events“
Degree: magna cum laude, Thesis: summa cum laude
- 1991 “Diplom” at Göttingen University [Germany], Geochemistry
Thesis: „Spider Webs as Indicators for Natural and Anthropogenic Atmospheric Particulates“
Degree: with distinction

ACHIEVEMENTS AND SKILLS

Science Management

- ⇒ Management skills as the Executive Secretary of the leading international science organization of the North, functions include
- Heading the international secretariat, including sub-offices in various member countries
 - Managing the organization’s finances
 - Coordinating international multidisciplinary and circum-Arctic projects

- Directing the organization’s outreach activities
 - Maintaining international communications with members and various partner organizations
 - Representing the organization on various high-level committees
- ⇒ Insight into Arctic Policy issues and communicating science to policy, through
- Representing the organization on the Arctic Council

- Coordinating the review Arctic Council reports: Arctic Resilience Report [ARR], 2nd Arctic Human Development Report [AHDR II] and Adaptation Actions for a Changing Arctic [AACA].
 - Cooperating with Arctic Council Working Groups and Permanent Participants
 - Managing science policy dialogues [German Arctic Dialogue and German Arctic Discussion Series]
- ⇒ Membership on various international committees
- German Delegate Arctic Monitoring and Assessment Program [AMAP] Working Group of the Arctic Council [2017-]
 - Member of the Core Group of the Arctic Futures Initiative [AFI] of the International Institute for Applied Systems Analysis [IIASA] [2015-2018]
 - Member of the Review Committee of the Scientific Committee on Antarctic Research [SCAR] and the Scientific Committee on Ocean Research [SCOR] [2015-2016]
 - Member of the Review Committee of the Association of Polar Early Career Scientists [APECS] [2014-2015]
 - Member of the Steering Group of the 3rd International Conference on Arctic Research Planning [ICARP III] [2013-2016] and lead editor of the final report „Integrating Arctic Research - a Roadmap for the Future“
 - Member of the Action Group on Scientific Committee on Arctic Research [SCAR] meetings and related activities [AGMRA] [2012-2013]
 - Member of the Steering Groups of the Arctic Council Adaptation Actions for a Changing Arctic [AACA] Assessment [2012-2016]
 - Member of the Steering Committee for the Arctic Observing Summit [AOS] [2012-]
 - Member of the Steering Committee for planning of the International Polar Partnership Initiative [2012-2016]
 - Member of the World Meteorological Organization Executive Council Expert Panel on Polar and High Mountain Observations, Research and Services [WMO EC PHORS] [2012-2016]
 - Member of the Advisory Board of the International Network for Terrestrial Research and Monitoring in the Arctic [INTERACT] [2011-2015]
 - Member of the Advisory Board of the Svalbard Integrated Arctic Earth Observing System [SIOS] [2010-2013]
 - Member of the Integration Team of the Arctic Council Project Snow, Water, Ice and Permafrost in the Arctic [SWIPA] [2008-2012]
 - Member of the Steering Group / Board of the Sustained Arctic Observing Networks [SAON] [2007-2016]
 - Member of the International Polar Year [IPY] Joint Committee [2006-2010]
 - Chair of the International Coordination Group of the Arctic Science Summit Week [ASSW] [2006-2016]
 - Lead author of the International Polar Year [IPY] cluster “Coasts and Margins - Arctic” [2005]
 - Chair of the Working Group “Arctic Coastal Processes” of the 2nd International Conference on Arctic Research Planning [ICARP II] [2004-2005]
 - Member of the Steering Committee of the European Science Foundation [ESF] Network SEDIFLUX, [2004-2005]
 - Co-chair of the Working Group on “Coastal and Offshore Permafrost” of the International Permafrost Association [IPA] [2003-2005]
 - Project leader “Arctic Coastal Dynamics [ACD]”, International Arctic Science Committee [IASC] / International Permafrost Association [IPA] / International Geosphere-Biosphere Programme Land-Ocean-Interactions in the Coastal Zone [IGBP-LOICZ] [2001-2005]
- ⇒ Member/Chair of the organizing/steering committee of international conferences
- 2nd Arctic Science Ministerial, Berlin (Germany), 25-26 October 2018
 - POLAR 2018, SCAR/IASC Science Conference, Davos (Switzerland) - 15-27 June 2018
 - Arctic Science Summit Week 2017, Prague (Czech Republic), 31 March - 6 April 2017
 - Arctic Science Summit Week 2016, Fairbanks (USA), 12-15 March 2016
 - 3rd Arctic Observing Summit [AOS III], Fairbanks (USA), 15-18 March 2016

- Arctic Discussion Series, Potsdam/Berlin [Germany], June 2014 - May 2015
 - Forth International Symposium on Arctic Research [ISAR-4], Toyama [Japan], 27-30 April 2015
 - Arctic Science Summit Week 2015, Toyama [Japan], 23-26 April 2015
 - Scientific Committee on Antarctic Research [SCAR] 2014 Open Science Conference, Auckland [New Zealand], August 2014
 - 2nd Arctic Observing Summit [AOS II], Helsinki [Finland], 9-11 April 2014
 - Arctic Science Summit Week 2014, Helsinki [Finland], 5-8 April 2014
 - International Cooperation in Arctic Research, Symposium at the Embassy of Canada, Berlin [Germany], 29 January 2014
 - Arctic Observing Summit [AOS], Vancouver [Canada], 30 April - 2 May 2013
 - Arctic Science Summit Week 2013, Krakow [Poland], 14-18 April 2013
 - 3rd International Symposium on Arctic Research [ISAR-3], Tokyo [Japan], 15-17 January 2013
 - Scientific Committee on Antarctic Research [SCAR] 2012 Open Science Conference, Portland [USA], July 2012
 - International Polar Year Montreal Conference, 22-27 April 2012
 - Arctic Science Summit Week 2012, Montreal [Canada], 20-22 April 2012
 - Science and Research in the Arctic, Embassy of Canada, Berlin [Germany], 29 February 2012
 - Research Urgencies in the Polar Regions and their links to the ICSU Grand Challenges in Global Sustainability, Siena [Italy] 23-24 September 2011
 - Arctic Science Summit Week 2011, Seoul [Korea], 28 March - 1 April 2011
 - International Polar Year Science Conference, Oslo [Norway], 8-12 June 2010
 - Arctic Science Summit Week 2010, Nuuk [Greenland], 15-19 April 2010
 - Arctic Science Summit Week 2009, Bergen [Norway], 23-28 March 2009
 - SCAR-IASC-IPY Open Science Conference, St. Petersburg [Russia], 8-11 July 2008
 - NATO-Russia Advanced Research Workshop „Influence of Climate Change on the Changing Arctic“ and 40th International Liège Colloquium on Ocean Dynamics, Liège [Belgium] 5-10 May 2008
 - Arctic Science Summit Week 2008, Syktyvkar [Russia], 26 March - 2 April 2008
 - ESF-VR-FORMAS Conference on Global Change Research “Global Environmental Change: the Role of the Arctic”, Nynäshamn [Sweden], 13-17 October 2007
 - Arctic Science Summit Week 2007, Hanover NH [USA], 14-20 March 2007
 - Arctic Science Summit Week 2006, Potsdam [Germany], 22-29 March 2006
- ⇒ Organizer of international workshops
- IASC Working Groups Workshop, Potsdam [Germany], 12-14 January 2011
 - Snow, Water, Ice and Permafrost in the Arctic [SWIPA] Cross-Fertilization Workshop, Potsdam [Germany], 12-15 January 2010
 - 3rd Workshop on Sustaining Arctic Observing Networks [SAON], Helsinki [Finland], 15-17 October 2008
 - 2nd Workshop on Sustaining Arctic Observing Networks [SAON], Edmonton [Canada], 8-11 April 2008
 - 1st Workshop on Sustaining Arctic Observing Networks [SAON], Stockholm [Sweden], 12-14 November 2007
 - IASC/LOICZ/IHDP/AMAP/IPA Workshop “Arctic Coastal Zones at Risk”, Tromsø [Norway], 1-3 October 2007
 - 2nd International Conference on Arctic Research Planning [ICARP II] Implementation Workshop, Potsdam [Germany], 19-21 November 2006
 - 5th Arctic Coastal Dynamics Workshop, Montréal [Canada], 13-16 October 2004
 - 4th Arctic Coastal Dynamics Workshop, St. Petersburg [Russia], 10-13 November 2003
 - 3rd Arctic Coastal Dynamics Workshop, Oslo [Norway], 2-5 December 2002
 - 2nd Arctic Coastal Dynamics Workshop, Potsdam [Germany], 26-30 November, 2001
 - 1st Arctic Coastal Dynamics Workshop, Potsdam [Germany], 18-20 October 2000

Research

- ⇒ Focussing on Arctic land-ocean interactions, i.e.
 - Subsea permafrost
 - Coastal processes and dynamics
 - Sediment transport and sediment budgets
 - Fluvial geochemistry
 - Paleoenvironmental reconstructions based on geochemical and mineralogical parameters
- ⇒ Head of the Work Package “From Permafrost to the Deep-Sea in the Arctic” at the Alfred Wegener Institute for Polar and Marine Research [2004-2005]
- ⇒ Successful applicant for externally funded projects:
 - International Association for the Promotion of Co-operation with Scientists from the New Independent States of the Former Soviet Union [INTAS] Open Call 2001, # 2329 [2002-2005] and # 2332 [2002-2004]
 - German Ministry for Education and Science [BMBF] Russian-German Bilateral Cooperation [1998-2005]
 - German Science Foundation [DFG]
- ⇒ Reviewer for international journals [Geo-Marine Letters, EOS, Journal of Geophysical Research, Lecture Notes in Earth Science, Marine Chemistry, Nature, Permafrost and Periglacial Processes, Polar Record, Polar Research, Terra Nova, Water Resources Research]
- ⇒ Reviewer for funding agencies [US National Science Foundation, Canadian Foundation for Climate and Atmospheric Sciences, Norwegian Research Council, Polish National Science Centre, Swedish Research Council, Italian National Program for Antarctic Research, Ministry of Education, Youth and Sports of the Czech Republic and Belmont Forum]

Field Experience

- ⇒ Chief scientist and coordinator of eight land- and ship-based Russian-German expeditions to the Siberian Arctic

- April 2005: “COAST” [19 participants]
 - July – August 2002: “LENA 2002” [27 participants]
 - July – August 2000: “LENA 2000” [18 participants]
 - April – September 1999: “LENA 1999” [42 participants]
 - July – August 1998: “LENA 1998” [28 participants]
 - July – August 1996: “KHATANGA 96” [3 participants]
 - June – September 1995: “LENA/YANA 95” [5 participants]
 - July – August 1994: “LENA 94” [3 participants]
- ⇒ Co-Founder of the Russian/German Station „Samoylov“ in the Lena Delta

Teaching

- ⇒ Lecturer at Potsdam University
 - “Aquatic Geochemistry” [2000-2005]
 - “Geochemical Cycles” [1998-2005]
- ⇒ Supervisor of several PhD and graduate students at Potsdam University [1994-]

Laboratory Experience

- ⇒ Substantial practical experience in analytical chemistry and sedimentology
- ⇒ Head of the geochemical laboratory of the Alfred Wegener Institute, Research Unit Potsdam [1995-2005]
- ⇒ Scientific coordinator for the installation of AWI’s laboratory building

Languages

- ⇒ German: native speaker
- ⇒ English: fluent in spoken and written
- ⇒ Russian and Swedish: basics

LIST OF PUBLICATIONS

[1] Peer-Reviewed Publications

- Andreev, A. A., Tarasov, P. E., Schwamborn, G., Ilyashuk, B. P., Ilyashuk, E. A., Bobrov, A. A., Klimanov, V. A., Rachold, V., Hubberten, H.-W. [2004] Holocene paleoenvironmental records from Nikolay Lake, Lena River Delta, Arctic Russia, *Palaeogeography, Palaeoclimatology, Palaeoecology* 209, 197-217.
- Are, F., Reimnitz, E., Grigoriev, M., Hubberten, H.-W., Rachold, V. [2008] The Influence of Cryogenic Processes on the Erosional Arctic Shoreface, *Journal of Coastal Research* 24, 110-121.
- Are, F. E., Grigoriev, M. N., Hubberten, H. -W., Rachold, V. [2005] Using thermoterrace dimensions to calculate the coastal erosion rate, *Geo-Marine Letters* 25, 121-126.
- Are, F.E., Grigoriev, M.N., Hubberten, H.-W., Rachold, V., Rasumov, S., Schneider, W. [2002] Comparative shoreface evolution along the Laptev Sea coast, *Polarforschung* 70, 135-150.
- Beeskow, B., Rachold, V. [2003] Geochemical Processes in the Yenisei River and Estuary, in: Stein, R., Fahl, K., Fütterer, K. D., Galimov E. (eds.), *Siberian River Run-off in the Kara Sea: Characterization, Quantification, Variability, and Environmental Significance. Proceedings in Marine Sciences*, Elsevier, p. 125-148.
- Dethleff, D., Rachold, V., Tintelnot, M., Antonow, M. [2000] Sea-ice transport of riverine particles from the Laptev Sea to Fram Strait based on clay mineral studies, *International Journal of Earth Sciences* 89, 496-502.
- Diekmann, B., Kuhn, G., Rachold, V., Abelmann, A., Brathauer, U., Fütterer, D. K., Gersonde, R., Grobe, H. [2000] Terrigenous sediment supply in the Scotia Sea [Southern Ocean]: response to Late Quaternary ice dynamics in Patagonia and on the Antarctic Peninsula, *Palaeogeography, Palaeoclimatology, Palaeoecology* 162, 357-387.
- Drozhdov, D. S., Rivkin, F. M., Rachold, V., Ananjeva-Malkova, G. V., Ivanova, N. V., Chehina, I. V., Koreisha, M. M., Korostelev, Yu. V., Melnikov, E. S. [2005] Electronic atlas of the Russian Arctic coastal zone, *Geo-Marine Letters* 25, 81-88.
- Eisenhauer, A., Meyer, H., Rachold, V., Wiegand, B., Hansen, B., Spielhagen, R. F., Kassens, H., Tütken, T., Lindemann, F. [1999] Grain size separation and sediment mixing in Arctic Ocean sediments: Evidence from the Strontium Isotope Systematics, *Chemical Geology* 158, 173-188.
- Gebhardt, C., Schoster, F., Gaye-Haake, B., Beeskow, B., Rachold, V., Unger, D., Ittekkot, V. [2005] The turbidity maximum zone of the Yenisei River [Siberia] and its impact on organic and inorganic proxies, *Estuarine Coastal and Shelf Science* 65[1-2], 61-73.
- Gordeev, V. V., Rachold, V., Vlasova, I. E. [2004] Geochemical behavior of major and trace elements in suspended particulate material of the Irtysh river, the main tributary of the Ob river, Siberia, *Applied Geochemistry* 19, 593-610.
- Grigoriev, M.N., Rachold, V. [2003] The degradation of coastal permafrost and the organic carbon balance of the Laptev and East Siberian Seas, *Proceedings of the 8th International Conference on Permafrost. Zurich [Switzerland], 21-25 July 2003*, 319-324.
- Kassens, H., Dmitrenko, I., Rachold, V., Thiede, J., Timokhov, L. [1998]. Four years of German-Russian cooperation in the Laptev Sea unravel an Arctic climate system, *EOS Transactions* 79/27, 317 & 322-323.
- Lantuit, H. , Atkinson, D. , Overduin, P. P. , Grigoriev, M. , Rachold, V. , Grosse, G. and Hubberten, H. W. [2011] Coastal erosion dynamics on the permafrost-dominated Bykovsky Peninsula, north Siberia, 1951-2006. *Polar Research*, doi: 10.3402/polar.v30i0.7341.

- Lantuit, H., Overduin, P.P., Couture, N., Wetterich, S., Aré, F., Atkinson, D., Brown, J., Cherkashov, G., Drozdov, D., Forbes, D.L., Graves-Gaylord, A., Grigoriev, M., Hubberten, H.-W., Jordan, J., Jorgenson, T., Ødegård, R.S., Ogorodov, S., Pollard, W.H., Rachold, V., Sedenko, S., Solomon, S., Steenhuisen, F., Streletskaya, I., Vasiliev, A. [2011] The Arctic Coastal Dynamics Database: A New Classification Scheme and Statistics on Arctic Permafrost Coastlines, Estuaries and Coasts, doi:10.1007/s12237-010-9362-6.
- Lantuit, H., Rachold, V., Pollard, W.H., Steenhuisen, F., Ødegård, R., Hubberten, H.-W. [2009]. Towards a calculation of organic carbon release from erosion of Arctic coasts using non-fractal coastline datasets, *Marine Geology*, 257[1-4], 1-10.
- Lara, R. J., Rachold, V., Kattner, G., Hubberten, H. W., Guggenberger, G., Skoog, A., Thomas, D. N. [1998] Dissolved organic matter and nutrients in the Lena River, Siberian Arctic: characteristics and distribution, *Marine Chemistry* 59, 301-309.
- Levasseur, S., Rachold, V., Birk, V., Allegre, C. J. [2000] Osmium behaviour in estuaries: the Lena River example, *Earth and Planetary Science Letters* 177, 227-235.
- Müller, J., Oberhänsli, H., Melles, M., Schwab, M., Rachold, V., Hubberten, H.-W. [2001] Late Pliocene sedimentation in Lake Baikal: implications for climatic and tectonic change in SE Siberia, *Palaeogeography, Palaeoclimatology, Palaeoecology* 174, 305-326.
- Nikiforov, S. L., Pavlidis, Yu. A., Rachold, V., Grigoryev, M. N., Rivkin, F. M., Ivanova, N. V., Koreisha, M. M. [2005] Morphogenetic classification of the Arctic coastal zone, *Geo-Marine Letters* 25, 89-97.
- Ostroumov, V., Rachold, V., Vasiliev, A., Sorokovikov, V. [2005] An application of a Markov-chain model of shore erosion for describing the dynamics of sediment flux, *Geo-Marine Letters* 25, 196-203.
- Overduin, P. P., Rachold, V., Grigoriev, M. N. [2008] The State of Subsea Permafrost in the Western Laptev Nearshore Zone. Proceedings of the 9th International Conference on Permafrost, 1345-1350.
- Overduin, P. P., Hubberten, H. -W., Rachold, V., Romanovskii, N., Grigoriev, M. N., Kasymkaya, M. [2007] Evolution and degradation of coastal and offshore permafrost in the Laptev and East Siberian Seas during the last climatic cycle, in: Harff, J., Hay, W.W., and Tetzlaff, D.M. (eds.), *Coastline Changes: Interrelation of Climate and Geological Processes: Geological Society of America Special Paper* 426.
- Peregovich, B., Hoops, E., Rachold, V. [1999] Sediment transport to the Laptev-Sea [Siberian Arctic] during the Holocene - evidence from the heavy mineral composition of fluvial and marine sediments, *Boreas* 28, 205-214.
- Prokoph, A., Villeneuve, M., Agterberg, F.P., Rachold, V. [2001] Geochronology and calibration of global Milankovitch cyclicity at the Cenomanian-Turonian boundary, *Geology* 29, 523-526.
- Prokoph, A., Babalola, L.O., El Bilali, H., Olagoke, S., Rachold, V. [2013] Cenomanian-Turonian carbon isotope stratigraphy of the Western Canadian Sedimentary Basin. *Cretaceous Research* 44, 39-53.
- Rachold, V. [2011] Permafrost, in: Krupnik, I., Hik, D., Allison, I., Bell, R., Cutler, P., López-Martinez, J., Rachold, V., Sarukhanian, E. and Summerhayes, C. (eds.), *Understanding Earth's Polar Challenges: International Polar Year 2007-2008 - Summary report of the ICSU/WMO IPY Joint Committee*.
- Rachold, V., Bolshiyarov, D. Yu., Grigoriev, M. N., Hubberten, H. -W., Junker, R., Kunitsky, V. V., Merker, F., Overduin, P. P., Schneider, W. [2007] Near-shore Arctic Subsea Permafrost in Transition, *EOS: Transactions of the American Geophysical Union* 88/13, 149-156.
- Rachold, V., Are, F. E., Atkinson, D. E., Cherkashov, G., Solomon, S. M. [2005] Arctic Coastal Dynamics – an introduction, *Geo-Marine Letters* 25, 63-68.
- Rachold, V., Eicken, H., Gordeev, V.V., Grigoriev, M.N., Hubberten, H.-W., Lisitzin, A.P., Shevchenko, V.P., Schirrmeyer, L. [2003] Modern terrigenous organic carbon input to the Arctic Ocean, in: Stein, R. and

- Macdonald, R. W. (eds.), *Organic Carbon Cycle in the Arctic Ocean: Present and Past*. Springer Verlag, Berlin. p. 33-55.
- Rachold, V., Lack, M., Grigoriev, M.N. [2003] A Geo Information System [GIS] for Circum-Arctic Coastal Dynamics, Proceedings of the 8th International Conference on Permafrost. Zurich [Switzerland], 21-25 July 2003, 923-927.
- Rachold, V. [2002] Sediment Pathways and Budgets of the Laptev Sea Region, Siberian Arctic - Implications for Arctic Land-Ocean Interactions., Habilitationsschrift, Universität Potsdam, 229 pp.
- Rachold, V., Grigoriev, M.N., Bauch, H.A. [2002] An estimation of the sediment budget in the Laptev Sea during the last 5,000 years, *Polarforschung* 70, 151-157.
- Rachold, V., Brumsack, H.-J. [2001] Inorganic geochemistry of Albian sediments from the Lower Saxony basin, NW German: paleoenvironmental constraints and orbital cycles, *Palaeogeography, Palaeoclimatology, Palaeoecology* 174, 123-144.
- Rachold, V., Grigoriev, M. N., Are, F. E., Solomon, S., Reimnitz, E., Kassens, H., Antonow, M. [2000] Coastal erosion vs riverine sediment discharge in the Arctic Shelf seas, *International Journal of Earth Sciences* 89, 450-460.
- Rachold, V. [1999] Major, trace, and rare earth element geochemistry of suspended particulate material of East Siberian rivers draining to the Arctic Ocean, in: Kassens, H., Bauch, H., Dmitrenko, I., Eicken, H., Hubberten, H.-W., Melles, M., Thiede, J., Timokhov, L.A. [eds], *Land-ocean systems in the Siberian Arctic: Dynamics and history*, Springer, Berlin, 199-222.
- Rachold, V., Hubberten, H.-W. [1999] Carbon isotope composition of particulate organic material in East Siberian rivers, *Land-ocean systems in the Siberian Arctic: Dynamics and history*, in: Kassens, H., Bauch, H., Dmitrenko, I., Eicken, H., Hubberten, H.-W., Melles, M., Thiede, J., Timokhov, L.A. [eds], *Land-ocean systems in the Siberian Arctic: Dynamics and history*, Springer, Berlin,, 223-238.
- Rachold, V., Eisenhauer, A., Hubberten, H.-W., Hansen, B., Meyer, H. [1997] Sr isotopic composition of suspended particulate material [SPM] of East Siberian Rivers: Sediment transport to the Arctic Ocean, *Arctic Antarctic and Alpine Research* 29/4, 422-429.
- Rachold, V., Alabyan, A., Hubberten, H.-W., Korotaev, V. N., Zaitsev, A. A. [1996] Sediment transport to the Laptev Sea - hydrology and geochemistry of the Lena River, *Polar Research* 15/2, 183-196.
- Rachold, V. , Heinrichs, H., Brumsack, H. J. [1992] Spinnweben: Natürliche Fänger atmosphärisch transportierter Feinstäube, *Naturwissenschaften*, 79, 175-178 .
- Rutgers van der Loeff, M. M., Kühne, S., Wahsner, M., Höltzen, H., Frank, M., Ekwurzel, B., Mensch, M., Rachold, V. [2003] ²²⁸Ra and ²²⁶Ra in the Kara and Laptev Seas, *Continental Shelf Research* 23(1), 113-124.
- Schwamborn, G., Dix, J. K., Bull, J. M., Rachold, V. [2002] High-resolution seismic and ground penetrating radar - geophysical profiling of a thermokarst lake in the western Lena Delta, Northern Siberia, *Permafrost and Periglacial Processes* 13/4, 259-269.
- Schwamborn, G., Rachold, V., Grigoriev, M. N. [2002] Late Quaternary Sedimentation History of the Lena Delta, *Quaternary International* 89, 119-134.
- Schwamborn, G., Andreev, A. A., Rachold, V., Hubberten, H. W., Grigoriev, M. N., Tumskoy, V., Pavlova, E. Y., Dorozhkina, M. V. [2002] Evolution of Lake Nikolay, Arga Island, Western Lena River delta, during Late Pleistocene and Holocene time, *Polarforschung* 70, 69-82.
- Thiede, J., Timokhov, L., Bauch, H. A., Bolshiyarov, D., Dmitrenko, I., Eicken, H., Fahl, K., Gukov, A., Kassens, H., Melles, M., Petryashov, V., Pivovarov, S., Priamikov, S., Rachold, V., Schmid, M., Siegert, C., Spindler, M., Stein, R., Hölemann, J., Scientific Party, Hubberten, H.-W., Juterzenka, K. v. [1999] Dynamics and history of the Laptev Sea and its continental hinterland: A summary, in: Kassens, H., Bauch, H.,

Dmitrenko, I., Eicken, H., Hubberten, H.-W., Melles, M., Thiede, J., Timokhov, L.A. [eds], Land-ocean systems in the Siberian Arctic: Dynamics and history, Springer, Berlin, 695-711.

Wegner, C., Bennett, K.E., de Vernal, A., Forwick, M., Fritz, M., Heikkilä, M., Łacka, M., Lantuit, L., Laska, M., Moskalik, M., O'Regan, M., Pawłowska, J., Promińska, A., Rachold, V., Vonk, J.E., Werner, K. [in press] Variability in transport of terrigenous material on the shelves and the deep Arctic Ocean during the Holocene. *Polar Research*

[2] Other Publications (Selected)

Allison, I., Béland, M., Alverson, K., Bell, R., Carlson, D., Danell, K., Ellis-Evans, C., Fahrbach, E., Fanta, E., Fujii, Y., Glaser, G., Goldfarb, L., Hovelsrud, G., Huber, J., Kotlyakov, V., Krupnik, I., Lopez-Martinez, J., Mohr, T., Qin, D., Rachold, V., Rapley, C., Rogne, O., Sarukhanian, E., Summerhayes, C., Xiao, C. [2007] The Scope of Science for the International Polar Year 2007/2008, World Meteorological Organization TD 1364.

Allison, I., Béland, M., Alverson, K., Bell, R., Carlson, D., Cutler, P., Danell, K., Ellis-Evans, C., Fahrbach, Hovelsrud, G., Huber, J., Kotlyakov, V., Krupnik, I., Lopez-Martinez, J., Mohr, T., Ödmark, H., Qin, D., Rachold, V., Rapley, C., Rogne, O., Sarukhanian, E., Summerhayes, C., Yamanouchi, T. [2009] The State of Polar Research - A Statement from the International Council for Science / World Meteorological Organization Joint Committee for the International Polar Year 2007-2008, World Meteorological Organization.

Cogan, C., Holland, G., Allard, M., Andreeva, E., Atkinson, D., Cherkashov, G., Gearheard, S., Grigoriev, M., Hacquebord, L., Odegard, R., Pollard, W., Romanovsky, V., Solomon, S., Spiridonov, V., Zöckler, C., Rachold, V. [2007] Arctic Coastal Processes, Working Group, 2nd International Conference on Arctic Research Planning.

Rachold, V., Hik, D. [2012] The International Arctic Science Committee - Preparing for the Next 25 Years of International Arctic Research. *Arctic Herald* 3/2012, 32-43.

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[3] Editorial Work

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Grigoriev, M. N., Rachold, V., Bolshiyarov, D. Yu., Pfeiffer, E. -M., Schirrmeister, L., Wagner, D., Hubberten, H. -W. [2003] Russian-German Cooperation System Laptev Sea - The Expedition Lena 2002, *Reports on Polar and Marine Research* 466, 341 pp.

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- Heidbach, U., File, S., Rachold, V. [2016] IASC Bulletin 2016. International Arctic Science Committee, 102 pp.
- Heidbach, U., Lee, Y.K., Rachold, V. [2014] IASC Bulletin 2014. International Arctic Science Committee, 130 pp.
- Integrating Arctic Research - a Roadmap for the Future. 3rd International Conference on Arctic Research Planning ICARP III [2016]. International Arctic Science Committee, <http://icarp.iasc.info>.
- Krupnik, I., Allison, I., Bell, R., Cutler, P., Hik, D. López-Martínez, J., Rachold, V., Sarukhanian, E. and Summerhayes, C. [2011] Understanding Earth's Polar Challenges: International Polar Year 2007-2008 - Summary report of the ICSU/WMO IPY Joint Committee, 695 pp.
- Pit, M., Bowden, S., Rachold, V. [2012] IASC Bulletin 2012. International Arctic Science Committee, 117 pp.
- Pit, M., Bowden, S., Rachold, V. [2011] IASC Bulletin 2011. International Arctic Science Committee, 81 pp.
- Pit, M., Heidbach, U., File, S., Rachold, V. [2015] IASC Bulletin 2015. International Arctic Science Committee, 129 pp.
- Rachold, V. Bowden, S., Pit, M. [2010] IASC Bulletin 2008/2009. International Arctic Science Committee, 113 pp.
- Rachold, V., Sundin, A. [2009] IASC Bulletin 2007/2008. International Arctic Science Committee, 78 pp.
- Rachold, V., Teglgård Pålsson, C. [2008] IASC Bulletin 2006/2007. International Arctic Science Committee, 124 pp.
- Rachold, V., Are, F. E., Atkinson, D. E., Cherkashov, G., Solomon, S. M. [2005] Arctic Coastal Dynamics, *Geo-marine letters*, 25/2-3.
- Rachold, V., Lantuit, H., Couture, N., Pollard, W. H. [2005] Arctic Coastal Dynamics - Report of the 5th International Workshop, McGill University, Montreal, Canada, 13-16 October 2004, *Reports on Polar and Marine Research* 506, 143p.
- Rachold, V., Cherkashov, G. [2004] Arctic Coastal Dynamics - Report of the 4th International Workshop, VNIIOkeangeologia, St. Petersburg [Russia], 10-13 November 2003, *Reports on Polar and Marine Research* 482, 229 pp.
- Rachold, V., Brown, J., Solomon, S., Sollid, J. L. [2003] Arctic Coastal Dynamics - Report of the 3rd International Workshop - University of Oslo [Norway] 2-5 December 2002, *Reports on Polar and Marine Research* 443, 127 pp.
- Rachold, V. [2002] The modern and ancient terrestrial and coastal environment of the Laptev Sea region, *Siberian Arctic*, *Polarforschung* 70.
- Rachold, V., Brown, J., Solomon, S. [2002] Arctic Coastal Dynamics - Report of an International Workshop, Potsdam [Germany] 26-30 November 2001, *Reports on Polar and Marine Research* 413, 103 pp.
- Rachold, V., Grigoriev, M.N. [2001] Russian-German Cooperation System Laptev Sea 2000: The Expedition LENA 2000, *Reports on Polar and Marine Research* 388, 135 pp.
- Rachold, V. [2000] Expeditions in Siberia in 1999, *Reports on Polar and Marine Research* 354, 303 pp.
- Rachold, V. [1999] Expeditions in Siberia in 1998, *Reports on Polar and Marine Research* 315, 268 pp.
- Rogne, O., Rachold, V., Hacquebord, L., Corell, R. [2015] IASC after 25 year - A Quarter of a Century of International Arctic Research Cooperation. International Arctic Science Committee. 125 pp.

[4] Invited Presentations

- Rachold, V. [2019] The German Arctic Office: Knowledge transfer and information exchange for future-oriented and sustainable Arctic decision making. Changing Arctic Oceans Annual Science Meeting. 15-16 January 2019, Birmingham, UK.

- Rachold, V. [2018] Science-based decision-making – Lessons learnt from the Second Arctic Science Ministerial. Arctic Circle Korea Forum. 7-9 December 2018, Seoul, Korea.
- Rachold, V. [2018] Supporting Implementation of the Arctic Science Agreement - Perspectives of a non-Arctic state with regard to international science advice. Arctic Circle Assembly. 19 October 2018, Reykjavik, Iceland.
- Rachold, V. [2018] What happens in the Arctic does not stay in the Arctic. The Arctic - Global implications of melting caps. French Embassy, 2 October 2018, Berlin, Germany.
- Rachold, V. [2018] Organisation and perspectives of Arctic research in Germany. MARUM Colloquium. 6 March 2018, Bremen, Germany.
- Rachold, V. [2018] Speaking truth to power in a post-factual world – Science diplomacy in the Arctic. Arctic Frontiers Policy Conference. 23 January 2018, Tromsø, Norway.
- Rachold, V. [2017] The Establishment and Mission of the German Arctic Office. Arctic Circle Assembly. 15 October 2017, Reykjavik, Iceland.
- Rachold, V. [2017] The role of indigenous peoples, science, politics and industry in shaping the Arctic. Arctic Changes Conference, Students Day. 11 December, Quebec, Canada.
- Rachold, V. [2017] Science Diplomacy in the Polar Regions. Potsdam Summer School. 7 September 2017, Potsdam Germany.
- Rachold, V. [2017] Die Arktis im Fokus geoökonomischer und geopolitischer Interessen. Kolloquiumsvortrag, Universität Erlangen, 17 Mai 2017, Erlangen, Germany.
- Rachold, V. [2017] Science in Diplomacy – the History of International Scientific Cooperation in the Polar Regions. Polar Educators International Workshop, 11-14 April 2017, Rovereto, Italy.
- Rachold, V. [2017] Arctic Research from a German Perspective. E.ON Scholarship Fund Conference 2017 - The Arctic & Energy – a Delicate Relationship. 28-30 March 2017, Longyearbyen, Norway.
- Rachold, V. [2017] Unity and diversity of polar sciences – Centre for Polar Studies, University of Silesia, 20 February 2017, Sosnowiec, Poland.
- Rachold, V. [2016] Identifying Priorities for International Arctic Research. Panel Presentation in: How to Connect with Arctic Research Across Boundaries – Arctic Circle Assembly, 6-9 October 2016, Reykjavik, Iceland.
- Rachold, V. [2016] Arctic Coastal Dynamics – How it all began. Coastal Permafrost in Transition, Side Meeting at the 11th International Conference on Permafrost, 19 June 2016, Potsdam, Germany.
- Rachold, V. [2016] How to become a science manager – and what are science managers actually doing? Alfred Wegener Institute PhD Days, 1 June 2016, Potsdam, Germany.
- Rachold, V. [2016] Session Chair: A European Arctic Policy – The role of non-Arctic Member States, 10 June 2016, Madrid, Spain.
- Rachold, V. [2016] International Conference on Arctic Research Planning [ICARP III]. International Arctic Assembly Day at Arctic Science Summit Week 2016, 15 March 2016, Fairbanks, USA.
- Rachold, V. [2015] Session Chair: Science and the Melting of Ice – Main Research Findings. International Symposium: The Arctic: opportunities and challenges deriving from climate change, 12 November 2015, Madrid, Spain.
- Rachold, V. [2015] Moderator of the Panel: How to achieve a sustainable economic development in the Arctic? – Danish, Nordic and German views. Towards a sustainable economic development of the Arctic – An expert workshop by the Royal Danish Embassy in Berlin and Stiftung Wissenschaft und Politik. 4 November 2015, Berlin, Germany.

- Rachold, V. [2015] Session Chair: Nationally-based Innovations and Collaborations. 2nd Polar Data Forum. 27-29 October, Waterloo, Canada.
- Rachold, V. [2015] Moderator of the German Country Presentation. Arctic Circle. 16-18 October 2015, Reykjavik, Iceland.
- Rachold, V. [2015] The Needs for Arctic research. The EU and the Arctic. 27 May 2015, Oslo, Norway
- Rachold, V. [2015] Future Priorities for Arctic Research. PAST Gateways Conference and Workshop 2015. 18-22 May 2015, Potsdam, Germany
- Rachold, V. [2015] Trends and Needs in Arctic Research. IASS-AWI Stakeholder Workshop. 11-12 May 2015, Potsdam, Germany
- Rachold, V. [2015] Panel Presentation: Northern Research Forum Open Dialogue Session: Arctic Science in Globalization. Arctic Science Summit Week 2015, 29 April 2015, Toyama, Japan.
- Rachold, V. [2015] Panel Presentation: Advances in Transdisciplinary Arctic Research: Progress on Building Collaborative Agendas for Research Supporting Solutions for Sustainability. Arctic Science Summit Week 2015, 30 April 2015, Toyama, Japan.
- Rachold, V. [2015] The 3rd International Conference on Arctic Research Planning [ICARP III]. Education Meets Science- Polar Educators International Workshop. 1-4 April 2015, Hannover, Germany
- Rachold, V. [2015] EU-PolarNet General Assembly, 10-11 March 2015, Bremerhaven, Germany
- Rachold, V. [2014] Panelist: Climate Change, Adaptation and Sustainability in the Arctic: Assessing Alternatives towards and beyond Paris 2015. 18-19 November 2014, Rovaniemi, Finland
- Rachold [2014] A Status Report on the International Polar Partnership Initiative [IPPI]. Competitive Potential of Northern and Arctic Regions. 8-10 October 2014, Arkhangelsk, Russia
- Rachold, V. [2014] Moderator of the Science-Policy 'Duets'. Potsdam Summer School 2014, 23 June-4 July 2014, Potsdam, Germany
- Rachold, V. [2014] Developing a career in permafrost research. Young Permafrost Researchers Workshop, 18 June 2014, Evora, Portugal
- Rachold, V. [2014] Lessons learnt from the International Polar Year. Arctic Council Task Force on Science Cooperation. 27-28 May 2014, Reykjavik, Iceland.
- Rachold, V. [2013] What is IASC's role in the Arctic Council? Polar science and policy: a happy marriage?, Ministry of Foreign Affairs, 1 November 2013, The Hague, The Netherlands
- Rachold, V. [2013] IASC's mission and the next generation. 2nd APECS BeNeLux Symposium, 31 October 2013, The Hague, The Netherlands
- Rachold, V. [2013] Die strategischen Folgen des Klimawandel, Expertengespräch: Die Arktis im Spannungsfeld zwischen Wirtschaftlichkeit und Klimawandel, Konrad Adenauer Stiftung, 19 June 2013, Berlin, Germany
- Rachold, V. [2013] Moderator, Arctic Dialogue - the Science-Policy-Interface, Arctic Science Summit Week 2013, 17 April 2013, Krakow, Poland
- Rachold, V. [2013] Internationale Einbindung der Österreichischen Polarforschung, Präsentation des neuen Österreichischen Polarforschungsinstituts, 8 April 2013, Vienna, Austria
- Rachold, V. [2012] Arctic Research Priorities and Challenges, International Club, German Federal Foreign Office, 6 November 2012, Berlin, Germany
- Rachold, V. [2012] The EU as an Arctic Actor? Interests and Governance Challenges, Geopolitics in the High North Conference, Stiftung Politik und Wissenschaft, 22-25 May 2012, Berlin, Germany

- Baeseman, J., Rachold, V. and Sparrow, M. [2011]: Polar Regions. International Council for Science [ICSU] General Assembly, 26-29 September 2011, Rome, Italy.
- Rachold, V. [2011] Co-Convener, Session: Arctic Coastal Processes, Peoples and Societies, LOICZ Open Science Conference, 12-15 September 2011, Yantai, China.
- Rachold, V. [2011] Climate Science and Negotiations: The State of Play. NATO Parliamentary Assembly, 77th ROSE-ROTH SEMINAR, Changes in the High North: Implications for NATO and Beyond. 22-24 June 2011, Tromsø, Norway
- Rachold, V. [2011] Leading-edge Multi-disciplinary Research for a Greater Scientific Understanding of the Arctic Region, 3rd Conference on Portuguese Polar Science, 12 April 2011, Coimbra, Portugal.
- Rachold, V. [2011] Moderator, Shipping in the Arctic Symposium, Canadian Embassy, 22 February 2011, Berlin, Germany.
- Rachold, V. [2010] Moderator, The EU and the Arctic Region: Stocktaking of interests and actions, Stiftung Politik und Wissenschaft, 27 May 2010, Berlin, Germany.
- Rachold, V. [2010] Implikationen und Herausforderungen des Klimawandels im arktischen Raum, Gesprächskreis: Europa und die Arktis, Konrad Adenauer Stiftung; 23 November 2010, Berlin, Germany.
- Rachold, V. [2009] The International Arctic Science Committee [IASC] and the Legacy of the International Polar Year 2007/2008. ArcticNet Conference, 8-11 December 2009, Victoria, Canada.
- Rachold, V. [2009] Sustaining Arctic Observing Networks - SAON. Space and the Arctic, 20 October 2009, Stockholm, Sweden.
- Rachold, V. [2009] IASC Presentation. Information Tour: Scientific and Technological Cooperation - Marine and Arctic Research at the Invitation of the Federal Foreign Office. 19 June 2009, Potsdam, Germany.
- Rachold, V. [2008] Panelist: The Arctic - Observing the environmental changes and facing their challenges. International Ministerial Conference on the Arctic. 9-10 November 2008, Monaco.
- Rachold, V. [2008] Rapid Reduction of Sea Ice and its Impact on the Arctic Environment. IFLOS Workshop „Climate Change, Conflicts and Cooperation in the Arctic“. 27 September 2008, Hamburg, Germany.
- Rachold, V. , Sparrow, M. [2008] Antarctic and Arctic Research Partnership Opportunities Ongoing and Planned Joint SCAR/IASC Activities. APECS Career Development Workshop, 7 July 2008, St. Petersburg, Russia.
- Rachold, V. [2008] Arctic Coastal Processes. NATO-Russia Advanced Research Workshop „Influence of climate change on the changing Arctic“ and 40th International Liège Colloquium on Ocean Dynamics, 5-10 May 2008, Liège, Belgium.
- Rachold, V. [2008] Who is Who - An overview of international Arctic organizations and their role in circum-Arctic science and science policy. NATO-Russia Advanced Research Workshop „Influence of climate change on the changing Arctic“ and 40th International Liège Colloquium on Ocean Dynamics, 5-10 May 2008, Liège, Belgium.
- Rachold, V. [2008] Co-Chair, NATO-Russia Advanced Research Workshop „Influence of climate change on the changing Arctic“ and 40th International Liège Colloquium on Ocean Dynamics, 5-10 May 2008, Liège, Belgium.
- Rachold, V. [2008] Introductory keynote: The SAON Vision. 2nd Workshop on Sustaining Arctic Observing Networks [SAON], 8-11 April 2008, Edmonton, Canada.
- Rachold, V. [2008] The International Arctic Science Committee - An Overview. Joint Seminar of UArctic Rectors' Forum and the Standing Committee of Parliamentarians of the Arctic Region. 28 February 2008, Rovaniemi, Finland.

- Rachold, V. [2007] Co-Chair, ESF-VR-FORMAS Conference on Global Change Research "Global Environmental Change: the Role of the Arctic", 13-17 October 2007, Nynäshamn, Sweden.
- Rachold, V. [2007] Panelist, Water in the Arctic and International Collaborations: Opportunities during IPY and beyond, ARCUS 19th Annual Meeting and Arctic Forum, 23-24 May 2007, Washington DC, USA.
- Rachold, V. [2007] Highlights from the Arctic Science Summit Week, Arctic Council Senior Arctic Officials Meetings, 12-13 April 2007, Tromsø, Norway.
- Rachold, V. [2007] Circumpolar Science Cooperation: who are the players and who sets the agenda?, University of the Arctic Rector's Forum, 14 March 2007, Hanover NH, USA.
- Rachold, V. [2006] Co-Chair, ARCUS 18th Annual Meeting and Arctic Forum, 25-26 May 2006, Washington DC, USA.
- Rachold, V., Tweedie, C. [2006] Who is Who – An Overview of Arctic Organizations, ARCUS 18th Annual Meeting and Arctic Forum, 25-26 May 2006, Washington DC, USA.
- Rachold, V. [2006] International Arctic Science Committee (IASC) – An Overview, Seminar of the Royal Swedish Academy of Sciences, 18 March 2006, Stockholm, Sweden.
- Rachold, V. [2005] Terrigenous organic matter input into the Arctic Ocean, Climate and changing pathways of marine Arctic pollution. 28 Nov - 3 Dec 2005, Tromsø, Norway.
- Rachold, V. [2005] Arctic Coastal Processes, The state of the Arctic - a pan-Arctic synthesis and understanding of the key atmosphere, ice, ocean, land, and global change parameters. 11-13 October 2005, Woods Hole MA, USA.
- Rachold, V. [2005] Overview of the Arctic Coastal Dynamics project, its objectives, specific coastal erosion models and their needs in terms of waves/wind/temperature, Alaskan Coastal Climatologies Wind and Wave Hindcast Workshop. 2-3 August 2005, Anchorage AK, USA.
- Rachold, V. [2005] Selecting Key Variables for Arctic Coastal Observatories, Lessons Learned in Building Observing Networks: International Perspectives. 11-12 May 2005, Copenhagen, Denmark.
- Rachold, V. [2005] Arctic Coastal Processes, International Symposium - 35th Anniversary of the Arctic Centre of the University of Groningen. 8 March 2005, Groningen, The Netherlands.
- Rachold, V. [2004] The Role of Coastal Processes in the Arctic System, ARCUS 16th Annual Meeting and Arctic Forum, 13-14 May 2004, Washington DC, USA.
- Rachold, V. [2004] Arctic Coastal Dynamics - Overview of an International Research Program, Colloquium at McGill Centre for Climate and Global Change Research, 16 Jan 2004, Montreal, Canada.
- Rachold, V. [2003] Co-Chair of the session "Coastal Processes", Study of Environmental Arctic Change (SEARCH) Open Science Meeting, 27-30 Oct 2003, Seattle WA, USA.
- Rachold, V. [2003] Chair of the Session "Coasts, subsea permafrost", VIII International Conference on Permafrost, 20 - 25 July 2003, Zurich, Switzerland.
- Rachold, V. [2003] Arctic Coastal Dynamics [ACD] - Status Report, IASC Council Meeting at Arctic Science Summit Week. 31 March - 4 April 2003, Kiruna, Sweden.
- Rachold, V. [2001] Mineralogische/Geochemische Proxies zur Rekonstruktion des rezenten und fossilen Materialtransportes in den Arktischen Ozean - Fallstudie Laptev-See, DMG Jahrestagung, 9.-14. September 2001, Potsdam, Deutschland.
- Rachold, V. [2001] Arctic Coastal Dynamics [ACD], Project Day at Arctic Science Summit Week, 22-29 April 2001, Iqaluit, Canada.

- Rachold, V. [1999] Fluviale Sedimentdynamik im Bereich der Laptev-See [Sibirische Arktis], Kolloquium - Institut für Biologie und Chemie des Meeres [ICBM], 2. Juni 1999, Universität Oldenburg, Deutschland.
- Rachold, V. [1999] Land/Ozean-Wechselwirkungen im Bereich der Laptev-See, GEOMAR-Seminar, 7. Januar 1999, Kiel, Deutschland.