

## List of Publications

### Publications

#### 1992-1998

**Knies, J.** (1992): Meereisbedeckung- -mächtigkeit und zerfall im Liefdefjord (Nordwestspitzbergen) im Frühjahr 1991 und Einfluss des Westspitzbergenstroms, unpubl. Diplomarbeit, Geographisches Institut der Justus-Liebig Universität, Giessen, 110pp.

King, L., **Knies, J.**, Schmitt, E., Volk, M. & Wollesen, D. (1993): Geomorphologie und Geoökologie eines glazial geprägten arktischen Küstengebietes, Liefdefjorden, Spitzbergen - Daten und erste Interpretation. In: *Materialien zur Physiogeographie*, Heft 15, p. 71-86, Basel.

King, L. & **Knies, J.** (1994): Aufbau, Zerfall und Bedeutung der Meereisdecke am Liefdefjord, NW-Spitzbergen. In: *Zeitschrift für Geomorphologie*, Suppl.-Bd 97, S. 265-274, Berlin-Stuttgart.

**Knies, J.** (1994): Späetquartaere Sedimentation am Kontinentalhang nordwestlich Spitzbergens. Der letzte Glazial/Interglazial-Zyklus, unpubl. Diplomarbeit, Justus-Liebig Universität, Giessen, 95pp.

**Knies, J.** (1996): Die Bedeutung des nördlichsten Ausläufers des Golfstroms für unser Klima: Der Westspitzbergenstrom. In: *Deutsche Gesellschaft für Meeresforschung* 2/96, S. 32-34.

Jan Backman, Martin Jakobsson, **Jochen Knies**, Jan Ove Knudsen, Yngve Kristoffersen, Arne Lif, Evgeny Musatov and Ruediger Stein (1997) Geological coring and high resolution chirp sonar profiling. In: *Polarforsknings-sekretariatets årsbok* 1995/96, p. 64-66.

**Knies, J.** and Stein, R. (1998): New aspects of organic carbon deposition and its paleoceanographic implications along the northern Barents Sea margin during the last 30.000 years, *Paleoceanography*, 13 (4), p. 384-394.

#### 1999

**Knies, J.**, Vogt, C. & Stein, R. (1999): Late Quaternary growth and decay patterns of the Svalbard-Barents Sea ice sheet and paleoceanographic evolution in the adjacent Arctic Ocean, *Geo-Marine Letters*, Vol. 18, p. 195-202.

**Knies, J.** (1999): Late Quaternary paleoenvironment along the northern Barents and Kara seas continental margin. A multiparameter analysis. *Reports on Polar Research*, 304, 157pp.

Stein, R. and **Knies, J.** (1999): Terrigenous vs. marine organic carbon deposition in late Quaternary sediments of the St. Anna Trough (Kara Sea). In: R. Stein, Ivanov, G., Levitan, M., Tarasov, G. and Fahl, K. (Eds.): Modern and Late Quaternary depositional environment of the St. Anna Trough area, northern Kara Sea. *Reports on Polar Research*, 342, 229-245.

#### 2000

**Knies, J., Nowaczyk, N., Müller, C., Vogt, C., and Stein R. (2000):** A multiproxy approach to reconstruct the environmental changes along the Eurasian continental margin during the last 150.000 years, *Marine Geology*, 163 (1-4), 317-344.

N. Nowaczyk and J. **Knies** (2000): Magnetostratigraphic results from Eastern Arctic Ocean - AMS<sup>14</sup>C ages and relative paleointensity data of the Mono Lake and Laschamp geomagnetic reversal excursions, *J. Geophys. Internat.*, 140, 185-197.

H.P. Kleiber, J. **Knies** & F. Niessen (2000): The Late Weichselian glaciation of the Franz Victoria Trough, northern Barents Sea. Ice sheet extent and timing. *Marine Geology*, 168, 25-44.

## 2001

Vogt, C., **Knies, J., Spielhagen, R.R., and Stein, R. (2001):** The last 90.000 years of the northern-western Svalbard region - a complex relationship between Atlantic water influx and Svalbard/Barents Sea Ice Sheet history, *Global Planetary Change* 31(1-4), 23-44.

J **Knies**, Kleiber, H.P., Matthiessen, J., Müller, C. & Nowaczyk, N.R. (2001): Marine ice-rafted debris records constrain maximum extent of Saalian and Weichselian ice sheets along the northern Eurasian margin. *Global and Planetary Change* 31 (1-4), 45-63.

Matthiessen, J. & **Knies, J. (2001):** Dinoflagellate cyst evidence for warm interglacial conditions at the northern Barents Sea margin during marine oxygen isotope stage 5. *Journal of Quaternary Science* 16 (7), 727-737.

Matthiessen, J., **Knies, J., Nowaczyk, N.R. & Stein, R. (2001):** Late Quaternary dinoflagellate cyst stratigraphy at the Eurasian continental margin, Arctic Ocean: Variability of Atlantic water inflow in the past 150,000 years, *Global and Planetary Change* 31 (1-4), 65-86.

Stein, R., Boucsein, B., Fahl, K., Garcia de Oteyza, T., **Knies, J., Niessen, F. (2001).** Accumulation of particulate organic carbon at the Eurasian continental margin during late Quaternary times: Controlling mechanisms and paleoenvironmental significance. *Global and Planetary Change*, 31 (1-4), 87-104.

## 2002

**Knies, J., Matthiessen, J., Vogt, C., and Stein, R. (2002):** Evidence of “Mid-Pliocene (~3 Ma) global warmth” in the eastern Arctic Ocean and implications for the Svalbard/Barents Sea ice sheet during the late Pliocene and early Pleistocene (~3 – 1.7 Ma). *Boreas* 31, 82-93.

Boucsein, B., **Knies, J., Stein, R. (2002):** Organic matter deposition along the Kara and Laptev Seas continental margin (eastern Arctic Ocean) during last deglaciation and Holocene: evidence from organic-geochemical and petrographical data. *Marine Geology*, Vol. 183, 67-87.

**Knies, J.** and U. Mann, (2002): Depositional Environment and Source Rock Potential of Miocene Strata from the central Fram Strait: Introduction of a New Computing Tool for Simulating Organic Facies Variations. *Marine and Petroleum Geology*, 19, 811-828.

## 2003

Nørgaard-Pedersen, N., Spielhagen, R.F., Erlenkeuser, H., Grootes, P.M., Heinemeier, J. & **Knies, J.** (2003): Arctic Ocean during the Last Glacial Maximum: Atlantic and polar domains of surface water mass distribution and ice cover. *Paleoceanography*, 18 (3), 1063, doi:10.1029/2002PA000781

**Knies, J.** & Vogt, C. (2003): Freshwater pulses in the eastern Arctic Ocean during Saalian and Early Weichselian ice-sheet collapse. *Quaternary Research*, 60, 243-251.

**Knies, J.**, Hald, M., Ebbesen, H., Mann, U. & Vogt, C. (2003): A decadal deglacial – middle Holocene record of biogenic sedimentation and paleoproductivity changes from the northern Norwegian continental shelf. *Paleoceanography*, 18 (4), 1096, doi:10.1029/2002PA000872.

Nowaczyk, N.R., Antonow, M., **Knies, J.**, Spielhagen, R.F. (2003): Further rock magnetic and chronostratigraphic results on reversal excursions during the last 50 ka as derived from northern high latitudes and discrepancies in precise AMS 14C dating. *Geophysical Journal International*, 155, 1065-1080.

## 2004

Wollenburg, J.E., Pirrung, M., **Knies, J.**, Mackensen, A. (2004): High-resolution paleoproductivity fluctuations since the Late Weichselian as indicated by benthic foraminifera in the marginal Arctic Ocean. *Palaeogeogr., Palaeoclimat., Palaeoecol.*, 204, 209-238.

**Knies, J.**, Damm, E., Gutt, J., Pinturier-Geiss, L., Mann, U. (2004): Near-surface hydrocarbon anomalies in sediments off Spitsbergen. Evidence for past seepages. *Geochemistry, Geophysics, Geosystems*, Vol. 5, No. 6, doi:10.1029/2003GC000687.

## 2005

Ottesen, D. Rise, L., **Knies, J.**, Olsen, L., Henriksen, S. (2005): The Vestfjorden-Tr&nadjupet palaeo-ice stream drainage system, mid-Norwegian continental shelf. *Marine Geology*, 218, 175-189.

Winkelman, D. and **Knies, J.** (2005): Recent distribution and accumulation of organic carbon on the continental margin west off Spitsbergen. *Geochemistry, Geophysics, Geosystems*, Vol. 6, No. 9, Q09012, doi:10.1029/2005GC000916.

**Knies, J.** (2005): Climate-induced changes in sedimentary regimes for organic matter supply on the continental shelf off northern Norway. *Geochimica et Cosmochimica Acta*, Vol. 69, 19, 4631-4647.

## 2006

Otto-Bliesner, B.L., Marshall, S.J., Overpeck, J.T., Miller, G.H., Hu, A., Anderson, P., Ben-  
nike, O., Bigelow, N., Brigham-Grette, J., Duvall, M., Edwards, M., Frechette, B., Funder, S.,  
Johnsen, S., **Knies, J.**, Koerner, R., Lozhkin, A., MacDonald, G., Matthiessen, J., Montoya,  
M., Muhs, D., Reeh, N., Sejrup, H.P., Turner, C., Velichko, A. (2006). Simulating Arctic cli-  
mate warmth and ice field retreat in the last interglaciation. *Science*, Vol. 311 (5768), 1751-  
1753.

CAPE-Last Interglacial Project Members (2006). Last Interglacial Arctic warmth confirms  
polar amplification of climate change. *Quaternary Science Reviews*, Vol. 25, 1383-1400.

Lekens, W.A.H., Sejrup, H.P., Haflidason, H. **Knies, J.**, Richter, T. (2006). Meltwater and ice  
rafting in the southern Norwegian Sea between 20 and 40 cal. Kyr B.P.: Implications for Fen-  
noscanian Heinrich events. *Paleoceanography* 21, PA3013.

## 2007

**Knies, J.**, Vogt, C., Matthiessen, J., Nam, S.-I., Ottesen, D., Rise, L., Bargel, T., Eilertsen,  
R.S. (2007) Re-advance of the Fennoscandian Ice Sheet during Heinrich Event 1. *Marine Ge-  
ology* 240, 1-18.

**Knies, J.** Brookes, S., Schubert, C.J. (2007). Re-assessing the nitrogen signal in continental  
margin sediments: New insights from the high northern latitudes. *Earth and Planetary Science  
Letter* 253, 471-484.

**Knies, J.**, Matthiessen, J., Vogt, C., Nam, S.-I., Frederichs, T., Mackensen, A., Stein, R.  
(2007) Effects of Arctic freshwater forcing on thermohaline circulation during the Pleisto-  
cene. *Geology* 35, 1075-1078.

## 2008

**Knies, J.**, Gaina, C. (2008) Middle Miocene ice sheet expansion in the Arctic – views from  
the Barents Sea. *Geochemistry, Geophysics, Geosystem*, 9, Q02015  
doi:10.1029/2007/GC001824.

**Knies, J.**, Mann, U., Popp, B.N., Stein, R., Brumsack, H.-J. (2008) Surface water productiv-  
ity and paleoceanographic implications in the Cenozoic Arctic Ocean. *Paleoceanography*, 23,  
PA1S16, doi:10.1029/2007PA00455.

Vogt, C., **Knies, J.** (2008) Sediment dynamics in the Eurasian Arctic Ocean during the last  
deglaciation – The clay mineral group smectite perspective. *Marine Geology*, 250, 3-4, 211-  
222. Doi:101016/j.margeo.2008.01.006.

Chand, S., Mienert, J., Andreassen, K., **Knies, J.**, Plassen, L., Fotland, B. (2008): Gas hydrate  
stability zone modelling in areas of salt tectonics and pockmarks of the Barents Sea suggests  
an active hydrocarbon venting system. *Marine and Petroleum Geology*, 25, 7, 625-636.

## 2009

Matthiessen, J., **Knies, J.**, Vogt, C., Stein, R. (2009): Pliocene palaeoceanography of the Arctic Ocean and subarctic seas. *Philosophical Transactions of the Royal Society A*, 367, 21-48, doi:10.1098/rsta.2008.0203.

Mann, U., **Knies, J.**, Chand, S., Jokat, W., Stein, R., Zweigel, J. (2009): Evaluation and modelling of Tertiary source rocks in the central Arctic Ocean. *Marine and Petroleum Geology*, 26, 1624-1639.

**Knies, J.**, Matthiessen, J., Vogt, C., Laberg, J.S., Hjelstuen, B.O., Smelror, M., Larsen, E., Andreassen, K., Eidvin, T., Vorren, T. (2009) The Plio-Pleistocene glaciations of the Barents Sea-Svalbard region: A new model based on revised chronostratigraphy. *Quaternary Science Reviews*, 28, 812-829, [doi:10.1016/j.quascirev.2008.12.002](https://doi.org/10.1016/j.quascirev.2008.12.002)

Vogt, C., **Knies, J.**, (2009): Sediment pathways in the western Barents Sea inferred from clay mineral assemblages in surface sediments. *Norwegian Journal of Geology*, 89, 1-2, 41-56.

**Knies, J.**, Martinez, P. (2009): Organic matter sedimentation in the western Barents Sea region: Terrestrial and marine contribution based on isotopic composition and organic nitrogen content. *Norwegian Journal of Geology*, 89, 1-2, 79-90.

Plassen, L., **Knies, J.**, (2009): Fluid flow structures and processes; indications from the North Norwegian continental margin. *Norwegian Journal of Geology*, 89, 1-2, 57-64.

Jensen, H.K.B., Boitsov, S., Finne, T.E., Klungsoyr, J., **Knies, J.**, (2009): Physical and chemical traces of anthropogenic influence at the seabed and in the sediments in Ingøydjupet, southern Barents Sea. *Norwegian Journal of Geology*, 89, 1-2, 101-108.

## 2010

Laberg, J.S., Andreassen, K., **Knies, J.**, Vorren, T.O., Winsborrow, M. (2010): Late Pliocene-Pleistocene development of the Barents Sea Ice Sheet. *Geology*, 38 (2), 107-110.

Aagaard-Sørensen, S., Husum, K., Hald, M., **Knies, J.** (2010): Paleooceanographic development in the SW Barents Sea during the Late Weichselian-Early Holocene transition. *Quaternary Science Reviews*, 29, 3442-3456.

Timmermann, A., **J. Knies**, O. Elison Timm, A. Abe-Ouchi, and T. Friedrich (2010): Promotion of glacial ice sheet buildup 60-115 kyr B.P. by precessionally paced Northern Hemispheric meltwater pulses, *Paleoceanography*, 25, PA4208, doi:10.1029/2010PA001933.

## Participant on National and International Conferences and Poster-abstracts

## 1992-1995

King, L., Schmitt, E., Volk, M., Wollesen, D. & **Knies**, J. (1992): Glacial geomorphology and ecology, Liefdefjord, Northwest Spitsbergen. In: Third Annual Workshop Polar North Atlantic Margin (PONAM), Poster Abstract, Wildeshausen, Germany, 23-26 November.

**Knies**, J. & Stein, R. (1994): Spätquartäre Sedimentation am Kontinentalhang nordwestlich Spitzbergens. Der letzte Glazial/Interglazial-Zyklus. In: Sedimente94-Tagung, Poster Abstract, Greifswald, 23-27 Mai.

**Knies**, J., Vogt, C. & Stein, R. (1994): Late Quaternary sedimentation on the continental slope of NW-Spitsbergen and the Yermak Plateau. The last Glacial/Interglacial-Cycle. In: Fourth Annual Workshop Polar North Atlantic Margins (PONAM), Poster Abstract, Randsvagen, Norway, 29.11-02.12.

Vogt, C., **Knies**, J., Grobe, H., Stein, R. (1995): NW coast of Spitsbergen and Yermak Plateau Late Quaternary sediments: Recording the West Spitsbergen Current activity and Svalbard glaciation. In: American Geophysical Union (AGU) Meeting, Poster abstract, published as a supplement to Eos, April 25, 1995, May 30 - June 2, Baltimore, Maryland.

**Knies**, J., Vogt, C., Grobe, H., Stein, R. (1995): Spätquartäre Sedimente an der Nordwestküste Spitzbergens und dem Yermak Plateau: Einfluß des Westspitzbergenstromes und Vergletscherung des Svalbard Archipels. In: SFB313-Berichtskolloquium, Poster Abstract, 24-25 November, Kiel.

## 1996

**Knies**, J. & Stein, R. (1996): Erste Ergebnisse der organisch-geochemischen und sedimentologischen Untersuchungen am Kontinentalhang der nördlichen Barents- und Kara-See. In: Terra Nostra, Schriften der Alfred-Wegener-Stiftung 3/96, S. 32. 18. Intern. Polartagung der Deutsch. Ges. f. Polarforschung, Potsdam, BRD, 18 bis 22 März.

C. Vogt, J. **Knies**, H. Grobe, R.F. Spielhagen, R. Stein, (1996): Late Quaternary changes in sea ice and iceberg cover traced by mineral assemblages in sediments off NW-Spitsbergen. In: Terra Nostra, Schriften der Alfred-Wegener-Stiftung 3/96, S. 77. 18. Intern. Polartagung der Deutsch. Ges. f. Polarforschung, Potsdam, BRD, 18 bis 22 März.

**Knies**, J. & Stein, R. (1996): Organic, Carbon, Biomarker and Paleoenvironment of the Northern Barents and Kara Sea During Glacial/Interglacial Periods: First Results of an Organic Geochemical and Sedimentological Study. Sixth V.M. Goldschmidt Conference for Advancement of Geochemistry, 31.03-04.04.96. Poster-abstract.

**Knies**, J., Weiel, D., Niessen, F., Stein, R. (1996): Lithofacies, ice-rafted detritus, and organic carbon flux along the Barents and Kara Sea continental margin: Build-up and decay of the ice sheets during the last interglacial/glacial cycle. In: QUEEN-Workshop, Strassbourg, 29.11-02.12.96. Poster-abstract.

**Knies, J.** and Stein, R. (1996): Organic carbon preservation, palaeoproductivity and paleoenvironment along the northern continental slope of the Barents- and Kara seas during the last 150 000 years. In: AGU Fall Meeting 1996, San Francisco, 15.12.96-20.12.96. Poster-abstract.

## 1997

**Knies, J.,** Stein, R. (1997): Organic carbon preservation, palaeoproductivity and paleoenvironment along the northern continental slope of the Barents- and Kara seas during the last 30 000 years. In: 27th Arctic Workshop, Ottawa, 27.2.97-02.03.97, p. 128-129, Poster-abstract.

**Knies, J.,** Stein, R. (1997): Organic carbon preservation, biomarkers and paleoenvironment along the northern continental slope of the Barents- and Kara seas during the last 150 000 years. In: EUG9, Terra Nova Vol. 9, 23-27.03.97, Strassbourg, p. 212, Poster-abstract.

**Knies, J.,** Stein, R. (1997): Organic carbon in late Quaternary sediments on the continental slope of the Barents- and Kara Sea: Productivity vs. Preservation. In: Terra Nostra, Heft97/2, Sediment '97, 21-24.05.97, Köln, p. 107, Poster-abstract.

## 1998

**Knies, J.,** Stein, R. (1998): Late Quaternary Paleoceanography along the Eurasian continental margin: Results From 170.000 Years-Records, ICP 6, 20-28.08.98, Abstract-Volume, Lisboa, Portugal.

Vogt, C. and **Knies, J.** (1998): Ein kombiniertes mineralogisches und organisch-geochemisches Sedimentkernsignal als Anzeiger der Ausdehnung des Svalbard/Barents See Eisschildes gegen 24.000 und 80.000 Jahren vor heute. Geo-Berlin '98, Deutsche Geologische Gesellschaft, 06-9.10.98, Abstract, Berlin.

**Knies, J.** and Kleiber, H.P. (1998): High-resoluted IRD Records Along the Eurasian Continental Margin. Evidences for Build-up/Decay Patterns of the Barents and Kara Sea Ice Sheets During the Last 150.000 Years. In: AGU Fall Meeting 1998, San Francisco, 06.-10.12.98. Poster-abstract.

Stein, R., Fahl, K., **Knies, J.**(1998). Post-Glacial/Holocene accumulation of organic carbon along the Eurasian continental margin (Arctic Ocean) and its paleoenvironmental significance, AGU Fall Meeting, San Francisco, 06.-10.12.1998.

## 1999

**Knies, J.,** Stein, R., Matthiessen, J. (1999): Erste Ergebnisse hochauflösender organo-geochemischer Studien an tertiären Sedimenten im Europäischen Nordmeer. Hinweise auf einen eisfreien Arktischen Ozean im mittleren Miozän und späten Pliozän. Kolloquium zum Schwerpunktprogramm Ocean Drilling Programm, Bremerhaven 03-05.99, Poster-abstract.

**Knies, J.,** Stein R. (1999): High resolution organo-geochemical studies of Mid-Miocene and Late Pliocene records from the northern Nordic Seas: Evidence for a seasonally ice-free Arctic Ocean. 19th IMOGE, International Meeting on Organic Geochemistry, Istanbul, Turkey, 06-10.09.99, Poster-abstract.

## 2000

**Knies, J.**, Matthiessen, J., Stein, R., Weiel, D. (2000): Ice build-up on Severnaya Zemlya and the eastern Kara Sea during the middle and late Weichselian. Evidences from marine records. Quaternary Environment of the Eurasian North (QUEEN), Fourth Workshop, 07-10.04.00, Lund, Sweden, Poster-abstract.

Matthiessen, J., **Knies, J.** (2000): Evidence for the Eemian in a marine record from the northern Barents Sea continental margin. Quaternary Environment of the Eurasian North (QUEEN), Fourth Workshop, 07-10.04.00, Lund, Sweden, Poster-abstract.

Mann, U., Zweigel, J., Myhr, M.B., **Knies, J.** (2000): Modelling petroleum systems: Examples for predicting lateral source rock quality changes and consequences for hydrocarbon generation. 7th Latin American Congress on Organic Geochemistry, p. 402-404. abstract.

C. Vogt, J. **Knies**, M. Wahsner, R. Stein, R.X. Fischer (2000): The Possibilities of Sea-Ice Motion Reconstruction Through Sediment Mineralogy in the Arctic Ocean. AGU Fall Meeting 2000, San Francisco, 15.-19.12.00. Poster-abstract.

**Knies, J.**, Matthiessen, J., Stein, R.(2000). High-resolution organo-geochemical studies of a Late Pliocene record from the high Nordic Seas: Evidence for a seasonally ice-free eastern Arctic Ocean, Kolloquium des Schwerpunktprogrammes ODP der DFG, February 23 - 25, Jena, Germany.

Matthiessen, J., Vogt, C., **Knies, J.**, Nowaczyk, N., Stein, R.(2000). Comparison of dinoflagellate cyst stratigraphy to paleomagnetic event, stable isotopes and mineralogical event stratigraphy in the Arctic Ocean, Workshop at the GeoForschungsZentrum Potsdam, From Secular Variation to Paleomagnetism - A new View of the Dynamic Geomagnetic Field, 111 Years of Geomagnetic Field Research in Potsdam, 9.-12. November 9 - 12, Potsdam, Germany.

## 2001

Mann, U. and **Knies, J.** (2001): Depositional Environment and Source Rock Potential of Miocene Strata from the Nordic Seas, Fram Strait: Introduction of a new Computing Tool for Simulating Organic Facies Variations along 2-D Basin Transects. AAPG Annual Meeting 2001: An Energy Odyssey Denver Colorado, U.S.A., starting 2001-06-03, abstract.

**Knies, J.**, Mackensen, A., Matthiessen, J., Vogt, C. (2001): The timing of the northern Barents Sea ice sheet break-up during the last two glacial/interglacial cycles on centennial time-scales. Evidences from the marginal eastern Arctic Ocean. International Conferences on Changes in climate and environment at high-latitudes at the University of Tromsø, Norway, Oct. 31 – Nov. 2, 2001, posterabstract.

## 2002

**Knies, J.**, Hald, M., Ebbesen, H. (2002): The organo-geochemical record from the Andfjorden, northern Norway: Paleoproductivity during the late glacial – early Holocene. 32<sup>nd</sup> Inter-

national Arctic Workshop, March 14-16, 2002, INSTAAR, University of Colorado, Boulder, U.S.A., 96-97, poster abstract.

Vogt C., **Knies J.**, Matthiessen J., Müller C., Wahsner M., and Stein R. (2002): Sedimentology and Mineralogy of Arctic Ocean sediments - what can we learn for paleoceanography? 32<sup>nd</sup> International Arctic Workshop, March 14-16, 2002, INSTAAR, University of Colorado, Boulder, U.S.A., 198-201. poster abstract.

## 2003

**Knies, J.** and Vogt, C. (2003): Arctic Ocean freshwater outbursts during Saalian and Early Weichselian ice-sheet collapse. 33<sup>th</sup> Arctic Workshop, April 3-5, 2003, University of Tromsø, Tromsø, Norway, xx-xx, poster abstract.

**Knies, J.**, Damm, E., Pinturier Geiss, L., (2003). Microseepages on the continental shelf off Svalbard. EGU-EGS-AGU Joint Assembly, April 5-11<sup>th</sup>, 2003, Nice, France, Geophysical Research Abstracts, Vol. 5, 01364.

**Knies, J.**, Damm, E., Gutt, J., Pinturier-Geiss, L., (2003). Near surface hydrocarbon anomalies in aerobic sediments off coastal Svalbard. Ocean Margin Research Conference, September 15-17<sup>th</sup>, 2003, Paris, France, Abstract, p. 1

**Knies, J.** & Vogt, C., (2003). Arctic Ocean freshwater outbursts during Saalian and Early Weichselian ice-sheet collapse. 33<sup>rd</sup> Arctic Workshop, University of Tromsø, Tromsø, Norway, April 3-5<sup>th</sup>, Abstract, p. 81.

**Knies, J.**, Hald, M., Ebbesen, H., (2003). A decadal record of paleoproductivity changes on the continental changes off northern Norway during the last 14000 years. EGU-EGS-AGU Joint Assembly, April 5-11<sup>th</sup>, 2003, Nice, France, Geophysical Research Abstracts, Vol. 5, 01366.

Matthiessen, J., **Knies, J.**, Steinke, T., Vogt, C., Stein, R.(2003). Short-term deposition of estuarine sediments at the northern Barents Sea margin during late Termination I: Indications for the inner Kara Sea as source area?, 21. Internationale Polartagung, 17-22 März, Liel, Germany, Terra Nostra 2003/1, 80.

Matthiessen, J., **Knies, J.**, Vogt, C., Stein, R., Wollenburg, J. (2003). Surface water conditions at the northern Barents Sea continental margin during marine isotope stage 5, 21. Internationale Polartagung, 17-22 März, Kiel, Germany, Terra Nostra 2003/1, 34

## 2004

**Knies, J.**, Mackensen, A., Matthiessen, J., Nam, S., Vogt, C.(2004). Towards an improved Arctic Ocean chronostratigraphy, Climate Change in High Latitudes, 1-3 Sept., Bergen, Norway.

Matthiessen, J., **Knies, J.**, Mackensen, A., Nam, S., Stein, R., Vogt, C. (2004). Paleoenvironmental evolution of the Eastern Arctic Ocean in the Pleistocene: New results from a multi-

proxy study on ODP Hole 910A (Yermak Plateau), GeoLeipzig 2004, 29. Sept. -1. Okt., Leipzig.

Vogt, C., Matthiessen, J., **Knies, J.**, Mackensen, A., Nam, S., Stein, R. (2004). Paleoenvironmental evolution of the Yermak Plateau, Eastern Arctic Ocean during MIS 1-17(19?), International Conference on Paleoceanography, ICP 8, Sept., Biarritz, France

**Knies, J.**, Mackensen, A., Matthiessen, J., Nam, S., Vogt, C.(2004). Towards an improved Arctic Ocean chronostratigraphy, Euroform, ODP Kolloquium, 17.- 19. März, Bremen, Germany.

Winkelmann, D., **Knies, J.** (2004). Late Holocene sedimentation in Spitsbergen's fjords and on the adjacent continental shelf west of Svalbard, European Geoscience Union 1st General Assembly, 25-30 April 2004, Nice, France

## 2006

Plassen, L. and **Knies, J.** (2006). Natural gas seepages; indications from the North Norwegian continental margin, Geophysical Research Abstracts, Vol. 8, 07093, European Geosciences Union 2006, 02-07 April, Wien, Austria.

**Knies, J.** and Ruehleemann, C. (2006). The paleoclimatic development of the Trondheimsfjorden during the late Holocene. Geophysical Research Abstracts, Vol. 8, 02828, European Geosciences Union 2006, 02-07 April, Wien, Austria.

**Knies, J.**, Matthiessen, J., Nam, S.I., Frederichs, T., Vogt, C., Mackensen, A., Stein, R. (2006). Maximum style glaciations and freshwater perturbations of thermohaline overturning circulation in the Atlantic/Arctic gateway over the past 0.8 Mio years. Geophysical Research Abstracts, Vol. 8, 02805, European Geosciences Union 2006, 02-07 April, Wien, Austria.

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## Talks

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### 1998

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**Jochen Knies** (1998): Ice-sheet history along the northern Barents- and Kara seas continental margin during the last 150.000 years. New evidence from marine records, Marine Periglacial and Glaciation of the Barents - Kara Shelf in Pleistocene, 19-21.11.98, Abstract, p. 51-54, Murmansk, Russia.

### 1999

**Jochen Knies** (1999): A multiproxy approach to reconstruct the environmental changes along the Eurasian continental margin over the last 150.000 years. Norske Geologiske Undersøkelse (NGU), Goldschmidt Lecture Series, 15.01.99, Trondheim, Norway (**invited**).

**Jochen Knies** et al. (1999): Maximum extent of the Barents and Kara ice sheets during the Weichselian: Evidence from marine records, Quaternary Environment of the Eurasian North (QUEEN), Third Workshop, 16-18.04.99, abstract, Øystese, Norway.

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## 2001

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## 2003

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Resources and Environmental Challenges, Tromsø, Norway, May 23-26. NGF Abstracts and Proceedings, No. 2, p. 17.

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**Knies J.** (2005). The complexity of the sedimentary environment in the Norwegian/Barents seas, Korea Institute of Geoscience and Mineral Resources (KIGAM), Daejeon, December 2005 (**Invited**).

**Knies, J.** (2005). The Barents Sea glaciation: Impact on gas hydrate stability, Bundesanstalt für Geowissenschaften und Rohstoffe, Stilleweg 2, D-30655 Hannover, March 2005 (**Invited**)

## 2006

**Knies, J.** (2006). Approaching the ARCTIC frontier areas – Links to academia, Shell EP External Affairs, Rijswijk, The Netherlands, April 2006 (**Invited**)

**Knies, J.** (2006). Approaching the Arctic frontier area for petroleum exploration. Department of Geology & Geophysics, University of Hawaii, School of Ocean, Earth and Science Technology, September 2006 (**Invited**).

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Rühlemann, C., **Knies, J.**, Milzer, G. (2008) Holocene centennial to decadal-scale climate fluctuations in the Trondheimfjord area. Geophysical Research Abstracts 10, EGU2008-A-02761, 2008, Vienna, Austria, abstract.

**Knies, J.**, Matthiessen, J., Vogt, C. (2008) Ice free Arctic Ocean during the Mid-Pliocene Warmth (~3 Ma)? 2<sup>nd</sup> International Conference on Arctic Palaeoclimate and its Extremes (APEX), 1<sup>st</sup> to 4<sup>th</sup> April, Durham University, Durham, UK, abstract, p. 28.

**Knies, J.** (2008). Some thoughts about the Cenozoic erosion in the Barents Sea. SINTEF Petroleum Research, Trondheim, June 2008 **(Invited)**.

**Knies, J.** (2008). Glaciation and Petroleum (GlaciPet) – A new Arctic perspective. The 3<sup>rd</sup> Norway – Russia Arctic Offshore Workshop, St. Petersburg, Russia, 17-18 June (**Invited**).

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**Knies J.** 2009. A new IODP initiative in the Arctic Ocean – The paleoceanography on the Yermak Plateau. Korea Institute of Geoscience and Mineral Resources (KIGAM), Daejong, June 8<sup>th</sup> 2009 (**Invited**).

Chen, Y., Espen, E., Haflidason, H., Hjelstuen, B., **Knies, J.** (2009): Sulfate reduction and methane cycling at pockmark areas in Nyegga and Vestnesa Ridge. Geophysical Research Abstracts 11, EGU2009-8046, 2009, Vienna, Austria, abstract.

**Knies, J.** 2009. Natural seepages – Examples from the Barents Sea. The 4<sup>th</sup> Norway – Russia Arctic Offshore Workshop, Norwegian Research Council, 17<sup>th</sup> – 18<sup>th</sup> June, Oslo, Norway (invited)

## **2010**

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