

## Full References

### PAGES Newsletter Vol.12, No 2

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There are references below for the following articles:

- Friedrich et al
  - Knorr and Lohmann
  - Kromer et al
  - Lohmann et al
  - Paul and Mulitza
  - Widmann et al
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Friedrich et al.:

Brauer, A., Endres, C., Negendank, J.F.W. and Zolitschka, B., 2000: Lateglacial and Holocene AMS radiocarbon and varve chronology from the annually laminated sediment record of Lake Meerfelder Maar, Germany. *Radiocarbon* 42: 355-368.

Björck, S., Bennike, O., Rosén, P., Andresen, C. S., Bohncke, S., Kaas, E. and Conley, D., 2002: Anomalously mild Younger Dryas summer conditions in southern Greenland. *Geology* 30: 427-430.

Friedrich, M., B. Kromer, M. Spurk, J. Hofmann, and K.F. Kaiser, (1999) Paleoenvironment and radiocarbon calibration as derived from Late Glacial/Early Holocene tree-ring chronologies, *Quaternary International*, 61, 27-39.

Hughen, K.A., J.R. Southon, S.J. Lehman, and J.T. Overpeck, (2000) Synchronous radiocarbon and climate shifts during the last deglaciation, *Science*, 290, 1951-1954.

Litt, T. and Stebich, M., 1999: Bio- and chronostratigraphy of the Lateglacial in the Eifel region, Germany. *Quaternary International* 61: 5-16.

Lotter, A.F., Birks, H.J.B., Eicher, U., Hofmann, W., Schwander, J. and Wick, L.: 2000. Younger Dryas and Allerod summer temperatures at Gerzensee (Switzerland) inferred from fossil pollen and cladoceran assemblages. *Palaeogeography, Palaeoclimatology, Palaeoecology* 159: 349-361.

Reimer, P.J., M.G.L. Baillie, E. Bard, A. Bayliss, W.J. Beck, C.J.H. Bertrand, P.G. Blackwell, C.E. Buck, G.S. Burr, K.B. Cutler, P.E. Damon, R.L. Edwards, R.G. Fairbanks, M. Friedrich, T.P. Guilderson, K.A. Hughen, B. Kromer, G. McCormac, S. Manning, C.B. Ramsay, R.W. Reimer, S. Remmele, J.R. Southon, M. Stuiver, S. Talamo, F.W. Taylor, J. v.d. Plicht and C.E. Weyhenmeyer, (in press) *INTCAL04 Terrestrial radiocarbon age calibration, 0-26 ka cal BP*.

Knorr and Lohmann:

Bard, E., Rostek, F., Turon, J. L. and Gendreau, S., (2000): Hydrological impact of Heinrich events in the subtropical northeast Atlantic. *Science* 289, 1321-1324.

Berger, W. H. and Wefer, G., (1996): Expeditions in to the past: Paleoceanographic studies in the South Atlantic. In: *The South Atlantic: Present and Past Circulation*; Wefer G., Berger WH, Siedler G, Webb D. J. (eds.), Springer-Verlag, 363-410.

Blunier, T. and Brook, E. J., (2001): Timing of millennial-scale climate change in Antarctica and Greenland during the last glacial period. *Science* 291, 109-112.

Brathauer, U. and Abelmann, A., (1999): Late Quaternary variations in sea surface temperatures and their relationship to orbital forcing recorded in the Southern Ocean (Atlantic sector). *Paleoceanography* 14, 135-148.

Broecker, W. S., Bond, G., Klas, M., Bonani, G. and Wolf, W., (1990): A salt oscillator in the glacial North Atlantic? 1. The concept. *Paleoceanography* 5, 469-477.

Broecker, W. S., (1991): The Great Ocean Conveyor. *Oceanography* 4, 79-89.

Brüning, R. and Lohmann, G., (1999): Charles S. Peirce on creative metaphor: A case study of the conveyor belt metaphor in Oceanography. *Special Issue for Scientific Discovery and Creativity. Foundations of Science* 4 (4), 389-403.

Clark, P. U., McCabe, A. M., Mix, A. C. and Weaver, A. J., (2004): The 19-kyr B.P. meltwater pulse and its global implications. *EGU Abstract*.

Crowley, T. J., (1992): North Atlantic Deep Water Cools the Southern Hemisphere. *Paleoceanography* 7, 489-497.

Dansgaard, W., S. J. Johnson, H. B. Clausen, D. Dahl-Jensen, N. Hammer and Oeschger, C. U., (1984): North Atlantic climatic oscillations revealed by deep greenland ice cores. *Climate Processes and Climate Sensitivity. Geophys. Monogr.* 29, Amer. Geophys. Union, 288-298.

Duplessy, J. C., Shackleton, N. J., Fairbanks, R. G., Labeyrie L. D., Oppo, D. and Kallel, N., (1988): Deepwater source variations during the last climate cycle and their impact on global deepwater circulation. *Paleoceanography* 3, 343-360.

Ganopolski, A. and Rahmstorf, S., (2001): Rapid changes of glacial climate simulated in a coupled climate model. *Nature* 409, 153-158.

Ganopolski, A. and Rahmstorf, S., (2002): Abrupt glacial climate changes due to stochastic resonance. *Phys. Rev. Lett.* 88, 038501-1-038501-4.

Gersonde, R., Abelmann, A., Brathauer, U., Becquey, S., Bianchi, C., Cortese, G., Grobe, H., Kuhn, G., Niebler, H.-S., Segl, M., Sieger, R., Zielinski, U. and Fütterer, D. K., (2003): Last glacial sea surface temperatures and sea-ice extent in the

Southern Ocean (Atlantic-Indian sector): A multiproxy approach. *Paleoceanography* 18 doi: 10.1029/2002PA000809.

Gordon, A. L., Weiss, R. F., Smethie Jr., W. M. and Warner, M. J., (1992): Thermocline and intermediate water communication between the South Atlantic and Indian Oceans. *J. Geophys. Res.* 97, 7223-7240.

IPCC, (2001): *Climate Change 2001: The Scientific Basis. Contribution of Working Group I to the Third Assessment Report of the Intergovernmental Panel on Climate Change.* [Houghton, J.T., et al. (eds.)]. Cambridge University Press, Cambridge, 881 pp.

Kim, S. J., Crowley, T. J. and Stössel, A., (1998): Local Orbital Forcing of Antarctic Climate Change during the Last Interglacial. *Science* 280, 728-730.

Knorr, G. and Lohmann, G., (2003): Southern Ocean origin for the resumption of Atlantic thermohaline circulation during deglaciation. *Nature* 424, 532-536.

Koutavas, A., Lynch-Stieglitz, J., Marchitto Jr., T. M. and Sachs J. P., (2002): El Niño-like Pattern in Ice Age Tropical Pacific Sea Surface Temperature. *Science* 297, 226-230.

Lea, D. W., Dorothy, K. P. and Spero, H. J., (2000): Climate Impact of Late Quaternary Equatorial Pacific Sea Surface Temperature Variations. *Science* 289, 1719-1723.

Lohmann, G. and Schulz, M., (2000): Reconciling Bølling warmth with peak deglacial meltwater discharge. *Paleoceanography* 15, 537-540.

Lohmann, G., Butzin, M., Grosfeld, K., Knorr, G., Paul, A., Prange, M., Romanova, V. and Schubert, S., (2003): The Bremen Earth System Model of Intermediate Complexity (BREMIC) designed for long-term climate studies. Model description, climatology, and applications. Technical Report, Bremen University, Bremen, Germany (available at <http://www.palmod.uni-bremen.de>).

Lutjeharms, J. R. E., (1981): Spatial scales and intensities of circulation in the ocean areas adjacent to South Africa. *Deep-Sea Research Part A* 28, 1289-1302.

Marshall, J. S. and Clarke, G. K. C., (1999): Modelling North American freshwater runoff through the Last Glacial Cycle. *Quaternary Res.* 52, 300-315.

Maier-Reimer, E., Mikolajewicz, U. and Hasselmann, K., (1993): Mean circulation of the Hamburg LSG OGCM and its sensitivity to the thermohaline surface forcing. *J. Phys. Oceanogr.* 23, 731-757.

Paul, A. and Schäfer-Neth, C., (2003): Modeling the water masses of the Atlantic Ocean at the Last Glacial Maximum. *Paleoceanography* 18: No. 3, 1058, doi:10.1029/2002PA000783

- Petit, J. R., Raynaud, D., Barkov, N. I., Barnola, J.-M., Basile, M., Bender, M., Chappellaz, J., Davis, M., Delaygue, G., Delmotte, M., Kotlyakov, V.M., Legrand, M., Lipenkov, V. Y., Lorius, C., Pepin, L., Ritz, C., Saltzman, E. and Stievenard, M., (1999): Climate and atmospheric history of the past 420,000 years from the Vostok ice core, Antarctica. *Nature* 399, 429-436.
- Prange, M., Romanova V. and Lohmann G., (2002): The glacial thermohaline circulation: stable or unstable? *Geophys. Res. Lett.* 29, 2028-2031, doi: 10.1029/2002GL015337.
- Rahmstorf, S. and Alley, R. B., (2002): Stochastic resonance in glacial climate. *EOS* 83, 129-135.
- Rahmstorf, S., (2003): Timing of abrupt climate change: a precise clock. *Geophys. Res. Lett.*, 30, 1510, doi:10.1029/2003GL017115.
- Sachs, J. P., Anderson, R. F. and Lehman, S. J., (2001): Glacial surface temperatures of the southeast Atlantic Ocean. *Science* 293, 2077-2079.
- Sarnthein, M., Winn, K., Jung, S. J. A., Duplessy, J. C., Labeyrie, L., Erlenkreuser, H. and Ganssen, G. M., (1994): Changes in east Atlantic deepwater circulation over the last 30,000 years: Eight time slice reconstructions. *Paleoceanography* 9, 209-267.
- Schulz, M., Paul, A. and Timmermann, A., (2002): Relaxation oscillators in concert: A framework for climate change at millennial timescales during the late Pleistocene. *Geophys. Res. Lett.* 29 (24), 10.1029/2002GL016144.
- Schulz, M., (2002): On the 1470-year pacing of Dansgaard-Oeschger warm events. *Paleoceanography* 17, 10.1029/2000PA000571.
- Schouten, M. W., De Ruijter, P. M. and van Leeuwen, P. J., (2002): Upstream control of Agulhas Ring shedding. *J. Geophys. Res.* 107, doi: 10.1029/2001JC000804.
- Shemesh, A., Hodell, D. Crosta, X., Kanfoush, S., Charles, C.D. and Guilderson, T., (2002): Sequence of events during the last deglaciation in Southern Ocean sediments and Antarctic ice cores. *Paleoceanography* 17, 1056, doi: 10.1029/2000PA000599.
- Sowers, T. and Bender, M., (1995): Climate records covering the Last Deglaciation. *Science* 269, 210-214.
- Stephens, B. B. and Keeling, R. F., (2000): The influence of Antarctic sea ice on glacial-interglacial CO<sub>2</sub> variations. *Nature* 404, 171-174.
- Stocker, T. F., (1998): The Seesaw effect. *Science* 282, 61-62.

Stocker, T. F., (2003): Global change: South dials north. *Nature* 424, 496-499  
doi:10.1038/424496a.

Toggweiler, J. R., (1999): Variation of atmospheric CO<sub>2</sub> by ventilation of the ocean's deepest water. *Paleoceanography* 14, 571-588.

Weaver, A. J., Saenko, O. A., Clark, P. U. and Mitrovica, J. X. (2003): Meltwater pulse 1A from Antarctica as a trigger of the Bølling-Allerød warm interval. *Science*, 299, 1709-1713.

Weijer, W., De Ruijter, W. P. M., Sterl, A. and Drijfhout, S. S., (2002): Response of the Atlantic overturning circulation to South Atlantic sources of buoyancy. *Global and Planetary Change* 34, 293-311.

Winton, M., (1993): Deep decoupling oscillations of the oceanic thermohaline circulation, in *Ice in the climate system*, edited by W. R. Peltier, pp. 417-432, Springer Verlag, Berlin.

Wunsch, C., (2000): On sharp spectral lines in climate record and the millennial peak *Paleoceanography*, 15, 417-424.

Kromer et al.:

Claussen, M., Kubatzki, C., Brovkin, V., Ganopolski, A., Hoelzmann, P., Pachur, H.J., 1999. Simulation of an abrupt change in Saharan vegetation at the end of the mid-Holocene, *Geophysical Research Letters*, 24 (14): 2037-2040.

Crowley, T.J., 2000. Causes of climate change over the past 1000 years. *Science* 289: 270-277.

Eddy, J.A., 1976. The Maunder minimum. *Science* 192: 1189-1201.

Ganopolski, A., Petoukhov, V., Rahmstorf, S., Brovkin, V., Claussen, M., Eliseev, A., Kubatzki, C., 2001. CLIMBER-2: a climate system model of intermediate complexity. Part II: Validation and sensitivity tests. *Climate Dyn.*, 17: 735-751.

Lean, J., Beer, J., Bradley, R., 1995. Reconstructions of solar irradiance since 1610: Implications for climate change. *Geophysical Research Letters*, 22 (23): 3195-3198.

Masarik, J., Beer, J., 1999. Simulation of particle fluxes and cosmogenic nuclide production in the Earth's atmosphere. *J. Geophys. Res.* 104 (D10): 12.099-12.111.

Muscheler, R., Beer, J., Kromer, B., 2003. Long-term climate variations and solar effects; Proc. ISCS 2003 Symposium 'Solar Variability as an Input to the Earth's Environment', Tatranska Lomnica, Slovakia. ESA SP-535, September 2003.

Petoukhov, V., Ganopolski, A., Brovkin, V., Claussen, M., Eliseev, A., Kubatzki, C., Rahmstorf, S., 2000. CLIMBER-2: a climate system model of intermediate

complexity. Part I: Model description and performance for present climate. *Climate Dyn.*, 16, 1, 1-17.

Reid, G., 1997. Solar forcing of global climate change since the mid-17th century. *Climatic Change*, 37: 391-405.

Stuiver, M., Reimer, P.J., Bard, E., Burr, G.S., Hughen, K.A., Kromer, B., McCormac, G., Plicht J.V.D., Spurk, M., 1998. INTCAL98 Radiocarbon Age Calibration. *Radiocarbon* 40 (3): 1041-1083.

van Geel, B., van der Plicht, J., Kilian, M.R., Klaver, E.R., Kouwenberg, J.H.M., Renssen, H., Reynaud-Farrera, I., Waterbolk, H.T., 1998. The Sharp Rise of DELTA14C ca. 800 cal BC: Possible Causes, Related Climatic Teleconnections and the Impact on Human Environments. *Radiocarbon* 40 (1-2): 531-550.

Lohmann et al.:

Butzin, M., Prange, M., and G. Lohmann, 2004: Simulations of oceanic radiocarbon at the Last Glacial Maximum. *Paleoceanography* (submitted).

Goslar, T., M. Arnold, N. Tisnerat-Laborde, J. Czernik, and K. Wiêckowski, 2000: Variations of Younger Dryas atmospheric radiocarbon explicable without ocean circulation changes. *Nature*, 403, 877-879.

Goslar, T., 2001: Absolute production of radiocarbon and the long-term trend of atmospheric radiocarbon. *Radiocarbon*, 43, 743-749.

Grosfeld, K., Lohmann, G., Rimbu, N., Lunkeit, F., and Fraedrich, F., 2003: North Atlantic atmospheric response to multidecadal sea surface temperature variability: observations, models, and proxy data. *J. Climate* (submitted).

Henderson, G. M. and Slowey, N. C., 2000: Evidence from U-Th dating against Northern Hemisphere forcing of the penultimate deglaciation. *Nature*, 404, 61-66.

Hughen, K.A., J.R. Southon, S.J. Lehman, and J.T. Overpeck, 2000: Synchronous radiocarbon and climate shifts during the last deglaciation. *Science*, 290, 1951-1954.

Kaplan, A., Cane, M., Kushnir, Y., Clement, A., Blumenthal, M., and B. Rajagopalan, 1998: Analyses of global sea surface temperature 1856-1991. *J. Geophys. Res.* 103, 18,567-18,589.

Lea, D. W., Dorothy, K. P. & Spero, H. J., 2000: Climate Impact of Late Quaternary Equatorial Pacific Sea Surface Temperature Variations, *Science* 289, 1719-1723.

Lohmann, G., 2003: Atmospheric and oceanic freshwater transport during weak Atlantic overturning circulation. *Tellus* 55 A, 438-449.

Marchal, O., T.F. Stocker, and R. Muscheler, 2001: Atmospheric radiocarbon during the Younger Dryas: production, ventilation, or both? *Earth and Planetary Science Letters*, 185, 383-395.

Petit, J. R., Raynaud, D., Barkov, N. I., Barnola, J-M., Basile, M., Bender, M., Chappellaz, J., Davis, M., Delaygue, G., Delmotte, M., Kotlyakov, V.M., Legrand, M., Lipenkov, V. Y., Lorius, C., Pepin, L., Ritz, C., Saltzman, E. and Stievenard, M., 1999: Climate and atmospheric history of the past 420,000 years from the Vostok ice core, Antarctica. *Nature* 399, 429-436.

Prange, M., Romanova, V., and Lohmann, G., 2002: The glacial thermohaline circulation: stable or unstable? *Geophysical Research Letters*, 29, 2028-2031.

Prange, M., Lohmann, G., V. Romanova, and M. Butzin, 2004: Modelling tempo-spatial signatures of Heinrich Events: Influence of the climatic background state. *Quat. Sci. Rev.*, 23/5-6, 521-527.

Romanova, V., Prange, M., and Lohmann, G., 2004: Stability of the glacial THC and its dependence on the background hydrological cycle. *Climate Dynamics*, 22, 527-538. doi:10.1007/s00382-004-0395-z.

Rühlemann, C., Mulitza, S., Lohmann, G., Paul, A., Prange, M., and Wefer, G., 2003: Intermediate depth warming in the tropical Atlantic related to weakened thermohaline circulation: Combining paleoclimate and modeling data for the last deglaciation. *Paleoceanography*, 19, Doi:10.1029/2003PA000948.

Paul and Mulitza:

Abrantes, F., Baas, J., Hafliðason, H., Rasmussen, T.L., Klitgaard, D., Lončarić, N., and Gaspar, L., 1998: Sediment fluxes along the northeastern European Margin: inferring hydrological changes between 20 and 8 kyr, *Marine Geology*, 152, 7-23.

Arz, H. W., Pätzold, J., and Wefer, G., 1999: The deglacial history of the western tropical Atlantic as inferred from high resolution stable isotope records off northeastern Brazil, *Earth and Planetary Science Letters*, 167, 105-117.

Bard, E., Fairbanks, R.G., Arnold, M., Maurice, P., Duprat, J., Moyes, J., and Duplessy, J-C, 1989: Sea level estimates during the last deglaciation based on  $^{18}O$  and accelerator mass spectrometry  $^{14}C$  ages measured on *Globigerina bulloides*, *Quaternary Research*, 31: 309-317.

Bickert, T., 1992: Rekonstruktion der spätquartären Bodenwasserzirkulation im östlichen Südatlantik, *Berichte, Fachbereich Geowissenschaften, Universität Bremen*, 27, 205 pp.

Broecker, W. S., 1998: Paleocean circulation during the last deglaciation: A bipolar seesaw? *Paleoceanography* 13: 119-121.

Bauch, D. and Bauch, H. A., 2001: Last glacial benthic foraminiferal  $\delta^{18}O$  anomalies in the polar North Atlantic: A modern analogue evaluation. *Journal of Geophysical Research* 106 (C5): 9135-9143.

Fairbanks, R. G., 1989: A 17,000-year long glacio-eustatic sea level record: Influence of glacial melting rates on the Younger Dryas event and deep-ocean circulation. *Nature* 358: 485-488.

Hemming, S. R., 2004: Heinrich events: Massive late Pleistocene detritus layers of the North Atlantic and their global imprint. *Review of Geophysics* 42: RG1005, doi:10.1029/2003RG000128, pp. 43.

Henderiks, J., Freudenthal, T., Meggers, H., Nave, S., Abrantes, F., Bollmann, J., and Thierstein, H.R., 2002: Glacial-interglacial variability of particle accumulation in the Canary Basin: a time-slice approach, *Deep Sea Research Part II: Topical Studies in Oceanography*, 49, 3675-3705.

Hüls, M., 2000: Millennial-scale SST variability as inferred from planktonic foraminifera sensus counts in the western subtropical Atlantic, GEOMAR Report, GEOMAR Research Center for Marine Geosciences, Christian Albrechts University in Kiel, 95, 118 pp.

Jansen, E., Veum, T., 1990: Evidence for two-step deglaciation and its impact on North Atlantic deep water circulation, *Nature*, 343, 612-616.

Jentsch, V., 1991a: An energy balance climate model with hydrological cycle. 1. Model description and sensitivity to internal parameters. *Journal of Geophysical Research* 96 (D9): 17169-17179.

Jentsch, V., 1991b: An energy balance climate model with hydrological cycle. 2. Stability and sensitivity to external forcing. *Journal of Geophysical Research* 96 (D9): 17181-17193.

Jung, S., 1996: Wassermassenaustausch zwischen NE-Atlantik und Nordmeer während der letzten 300 000/80 000 Jahre im Abbild stabiler O- und C- Isotope, *Berichte aus dem Sonderforschungsbereich 313, Christian-Albrechts-Universität, Kiel*, 61: 104 pp.

Kiefer, T., 1998: Produktivität und Temperaturen im subtropischen Nordatlantik: zyklische und abrupte Veränderungen im späten Quartär, *Berichte - Reports, Geol.Paläont. Inst. Univ. Kiel*, 90, 127 pp.

Kim, J.-H., Schneider, R., Müller, P.J., and Wefer, G., 2002: Interhemispheric comparison of deglacial sea-surface temperature patterns in Atlantic eastern boundary currents, *Earth and Planetary Science Letters*, 194, 383-393.

Kirst, G., 1998: Rekonstruktion von Oberflächenwassertemperaturen im östlichen Südatlantik anhand von Alkenonen, *Berichte, Fachbereich Geowissenschaften, Universität Bremen*, 118, 130 pp.



- Knies, J., and Stein, R., 1998: New aspects of organic carbon deposition and its paeoceanographic implications along the northern Barents Sea margin during the last 30,000 years, *Paleoceanography*, 13, 384-394.
- Lehman, S. J., Wright, D. G. and Stocker, T. F., 1993: Transport of freshwater into the deep ocean by the conveyor . In: Peltier, W. R. (ed.) *Ice in the Climate System*. NATO ASI Series Vol. I 12, Springer-Verlag, Berlin, Heidelberg, pp. 187-209.
- Lohmann, G., 2003: Atmospheric and oceanic freshwater transport during weak Atlantic overturning circulation. *Tellus* 55A: 438-449.
- Marchitto, T. M., Curry, W. B., Oppo, D.W., 1998: Millennial-scale changes in North Atlantic circulation since the last glaciation, *Nature* 393, 557-561.
- Manabe, S. and Stouffer, R. J., 1997: Coupled ocean-atmosphere model response to freshwater input: Comparison to Younger Dryas event. *Paleoceanography* 12: 321-336.
- Marshall, S. J. and Clarke, G. K. C., 1997: A continuum mixture model of ice stream thermomechanics in the Laurentide Ice Sheet. 2. Application to the Hudson Strait ice stream. *Journal of Geophysical Research* 102: 20,615-20,637.
- Mulitza, S., Boltovskoy, D., Donner, B, Meggers, H., Paul, A. and Wefer, G., 2003: Temperature: \_18O relationships of planktic foraminifera collected from surface waters, *Palaeogeography, Palaeoclimatology, Palaeoecology* 202: 143-152.
- Mollenhauer, G., 2002: Organic carbon accumulation in the South Atlantik Ocean: Sedimentary processes and glacial/interglacial budgets, *Berichte, Fachbereich Geowissenschaften, Universität Bremen*, 204, 139 pp.
- Paul, A., Mulitza, S., Pätzold, J. and Wolff, T., 1999: Simulation of oxygen isotopes in a global ocean model. In: Fischer, G. and G. Wefer, G. (eds.) *Use of Proxies in Paleoceanography: Examples from the South Atlantic*. Springer-Verlag, Berlin, Heidelberg, pp. 655-686.
- Paul, A. and Schulz, M., 2002: Holocene climate variability on centennial-to-millennial time scales: 2. Internal feedbacks and external forcings as possible causes. In Wefer, G., Berger, W. H. , Behre, K.E., and Jansen, E. (eds.) *Climate development and history of the North Atlantic Realm*. Springer-Verlag, Berlin, pp. 55-73.
- Richter, T., 1998: Sedimentary fluxes at the mid-atlantic ridge - sediment sources, accumulation rates, and geochemical characterisation, *GEOMAR Report*, GEOMAR Research Center for Marine Geosciences, Christian Albrechts University, Kiel, 73, 173 pp.

- Roche, D., Paillard, D., Cortijo, E. and Ganopolski, A., 2003: An isotope modelling study of a Heinrich event: Evaluation of the iceberg discharge volume and duration. *Geophysical Research Abstracts* 5: 05077.
- Rühlemann, C., Mulitza, S., Müller, P.J., Wefer, G. and Zahn, R., 1999: Warming of the tropical Atlantic Ocean and slowdown of thermohaline circulation during the last deglaciation, *Nature*, 402: 511-514.
- Rühlemann, C., Mulitza, S., Lohmann, G., Paul, A., Prange, M., and Wefer, G., 2004: Intermediate depth warming in the tropical Atlantic related to weakened thermohaline circulation: Combining paleoclimate data and modeling results for the last deglaciation. *Paleoceanography* 19: PA1025, doi:10.1029/2003PA000948.
- Sarnthein, M., Winn, K., Jung, S., Duplessy, J.-C., Labeyrie, L., Erlenkeuser, H., and Ganssen, G., 1994: Changes in east Atlantic deepwater circulation over the last 30,000 years: Eight time slice reconstructions, *Paleoceanography*, 9, 209-267.
- Schmidt, G. A., 1999: Forward modeling of carbonate proxy data from planktonic foraminifera using oxygen isotope tracers in a global ocean model. *Paleoceanography* 14: 482-497.
- Shackleton, N.J., Hall, M., and Vincent, E., 2000: Phase relationships between millennial-scale events 64,000-24,000 years ago, *Paleoceanography*, 15, 565-569.
- van Kreveland, S. A., Sarnthein, M., Erlenkeuser, H., Grootes, P., Jung, S., Nadeau, M. J., Pflaumann, U., Voelker, A., 2000: Potential links between surging ice sheets, circulation changes and the Dansgaard-Oeschger cycles in the Irminger Sea, 60-18 kyr. *Paleoceanography* 15. 425-442.
- Vidal, L., Labeyrie, L., and van Weering, T., 1998: Benthic  $\delta^{18}\text{O}$  records in the North Atlantic over the last glacial period (60-10 kyr): Evidence for brine formation. *Paleoceanography* 13, 245-251.
- Vidal, L., Schneider, R., Marchal, O., Bickert, T., Stocker, T., and Wefer, G., 1999: Link between the North and South Atlantic during the Heinrich events of the last glacial period, *Climate Dynamics*, 15, 909-919.
- Voelker, A., 1999: Zur Deutung der Dansgaard-Oeschger Ereignisse in ultra-hochauflösenden Sedimentprofilen aus dem Europäischen Nordmeer, *Berichte - Reports, Inst. f Geowiss, Univ. Kiel*, 9, 278 pp.
- Winn, K., Sarnthein, M., and Erlenkeuser, H. (1991):  $\delta^{18}\text{O}$  Stratigraphy and Chronology of Kiel Sediment Cores from the East Atlantic, *Berichte-Reports, Geologisch-Paläontologisches Institut und Museum, Christian-Albrechts-Universität, Kiel*, 45, 99 pp.

Wright, Daniel G. and Stocker, Thomas F., 1992: Sensitivities of a zonally averaged global ocean circulation model. *Journal of Geophysical Research* 97 (C8): 12707-12730.

Zahn, R., 1986: Spätquartäre Entwicklung von Küstenauftrieb und Tiefenwasserzirkulation im Nordost-Atlantik. Rekonstruktion anhand stabiler Isotope kalkschaliger Foraminiferen. Ph.D. Thesis, Univ. Kiel. 110

Widmann et al.:

Jones, P.D., Briffa, K. R., Barnett, T. P. and Tett, S. F. B., 1998: High-resolution palaeoclimatic records for the last millennium: interpretation, integration and comparison with General Circulation Model control-run temperatures. *The Holocene* 8: 455-471.

von Storch, H., Cubasch, U., González-Rouco, F., Jones, J. M., Voss, R., Widmann, M. and Zorita, E., 2000: Combining paleoclimatic evidence and GCMs by means of data assimilation through upscaling and nudging (DATUN). Proc. 11th Symposium on Global Change Studies, American Meteorological Society, Long Beach, CA.

Zorita, E., von Storch, H., González-Rouco, F., Cubasch, U., Luterbacher, J., Legutke, S., Fischer-Bruns, I. and Schlese, U., 2004: Climate evolution of the last five centuries simulated by a coupled ocean-atmosphere model: global temperatures, the North Atlantic Oscillation and the Maunder Minimum. *Meteorologische Zeitschrift*. In press.