

Schriftenverzeichnis Mara Weinelt (Stand 2008)

(Submitted)

MARGO project

Constraints on the magnitude and patterns of ocean cooling at the Last Glacial Maximum

Submitted to Nature.

MARGO project members * Waelbroeck, C., Paul, A., Kucera, M., Rosell-Melé, A., Weinelt, M., Schneider, R., Abelmann, A., Armand, L., Barker, S., Barrows, T.T., Benway, H., Cacho, I., Chen M.-T., Cortijo, E., Crosta, X., de Vernal, A., Dokken, T., Duprat, J., Elderfield, H., Eynaud, F., Gersonde, R., Hayes, A., Henry, M., Hillaire-Marcel, C., Huang, C.-C., Jansen, E., Juggins, S., Kallel, N., Kiefer, T., Kienast, M., Londeix, L., Mangin, S., Matthiessen, Marret, F., Meland, M., Mix, A.C., Morey, A.E., Mulitza, S., Pflaumann, U., Pisias, N.G., Radi, T., Rochon, Rohling, E.J., A., Sbaffi, L., Schäfer-Neth, C., Solignac, S., Spero, H., Tachikawa, K., Turon, J.-L.

Weinelt, M., Bartoli, G., Erlenkeuser, H. and M. Sarnthein

Gateway-Controlled Decline of primary production in the northern North Atlantic at 2.74 Ma?

Submitted to Marine Micropaleontology

Kozdon, R., Eisenhauer, A., Weinelt, M., Meland, M., and D. Nürnberg

Reassessing Mg/Ca temperature calibrations of *N. pachyderma* (sin.) using parallel $d^{44}/^{40}\text{Ca}$ and Mg/Ca measurements

Submitted to G3

Kozdon, R., Eisenhauer, A., Weinelt, M., Fietzke, J., Meland, M., and d. Hippler. A $d^{44}/^{40}\text{Ca}$, Mg/Ca and $d^{18}\text{O}$ multi-proxy approach reveals a two phase calcification process in *N. pachyderma* (sin.)

Submitted to Paleoceanography

Otto-Bliesner, B., Schneider, R. R., Kucera, M., Paul, A., Rosell-Melé, A., Brady, E.C., Weinelt, M., and M. Stevens

A Comparison of PMIP-2 Model Simulations and the MARGO Proxy Reconstruction for Tropical Sea Surface Temperatures at Last Glacial Maximum

Submitted to Climate Dynamics

(Peer reviewed)

Weinelt, M., 2008.

Ocean Paleotemperatures, Encyclopedia of Paleoclimatology, Earth Science Series, Springer (in press).

DeVernal, A., Rosell-Melé, A., Kucera, M., Hillaire-Marcel, C., Eynaud, E., Weinelt, M., Dokken, T., and M. Kageyama, 2006.

Multiproxy reconstruction of LGM sea-surface conditions in the northern North Atlantic.

Submitted to Quaternary Science Reviews, 25, 2820–2834.

Bartoli, G., Sarnthein, M., Weinelt, M., Andersen, N., Erlenkeuser, H., Garbe-Schönberg, D., 2006.

Millennial-scale Late Pliocene Climate Variability in the northern North Atlantic prior and after the Onset of Northern Hemisphere Glaciation.

Paleoceanography, 21, PA4205, doi:10.1029/2005PA001185, 2006.

Bartoli, G., Sarnthein, M., Weinelt, M., Lea, D. W., Erlenkeuser, H., Garbe-Schönberg, D., 2005.

Final closure of Panama and the onset of northern hemisphere glaciation., *EPSL*, EB2004-105.

Kucera, M., Weinelt, M., Kiefer, T., Pflaumann, U., Hayes, A., Weinelt, M., Barrows, T., Chen, M.-T., Cortijo, E., Duprat, J., and Waelbroeck, C., 2005.

Glacial sea-surface temperatures from assemblages of planktonic foraminifera: a framework for regional reconstructions based on multi-technique consensus. *Quaternary Science Reviews*, 24, 951-998.

Kucera, M., Rosell-Melé, A., Schneider, R., Waelbroeck, C., Weinelt, M., 2005. Multiproxy approach for the reconstruction of the glacial ocean surface (MARGO). *Quaternary Science Reviews*, 24, 813-819.

Schmittner, A., Sarnthein, M., Kinkel, H., Bartoli, G., Bickert, T., Crucifix, M., Crudeli, D., Groeneveld, J., Kösters, F., Mikolajewicz, U., Millo, C., Reijmer, J., Schäfer, P., Schmidt, D., Schneider, B., Schulz, M., Steph, S., Tiedemann, R., Weinelt, M., and M. Zuvela, 2004. Global impact of the Panamanian seaway closure. *EOS*, 85, 525.

Pflaumann, U., Sarnthein, M., Chapman, M., Duprat, J., Huels, M., Kiefer, T., Maslin, M., Schulz, H., van Kreveld, S., Vogelsang, E., and M. Weinelt, 2003. North Atlantic: Sea-surface conditions reconstructed by GLAMAP-2000, *Paleoceanography*, 18, doi:10/1029/2002PA000774.

Sarnthein, M., Pflaumann, U., and M. Weinelt, 2003. Past extent of sea-ice in the northern North Atlantic inferred from foraminiferal paleotemperature estimates, *Paleoceanography*, 18 doi:10/1029/2002PA000771.

Sarnthein, M., Gersonde, R., Niebler, S., Pflaumann, U., Spielhagen, R., Thiede, Wefer, G., and M. Weinelt, 2003. Preface: Glacial Atlantic Ocean Mapping (GLAMAP-2000), *Paleoceanography*, 18, doi:10/1029/2002PA000770.

Weinelt, M., Vogelsang, E., Kucera, M., Pflaumann, U., Sarnthein, M., Völker, A., Erlenkeuser, H., and B. A. Malmgren, 2003. Variability of North Atlantic heat transfer during MIS 2, *Paleoceanography*, 18, doi:10/1029/2002PA000772.

Weinelt, M., Rosell-Melé, A., Pflaumann, U., Sarnthein, M., and T. Kiefer, 2003. Zur Rolle der Produktivität im Nordostatlantik bei abrupten Klimaänderungen in den letzten 80 000 Jahren, *Z.d.t.geol.Ges.*, 154, 47-66.

Rosell-Melé A., Jansen E., and M. Weinelt., 2002. Appraisal of a molecular approach to infer variations in surface ocean freshwater inputs into the North Atlantic during the last glacial. *Global and Planetary Change*: 34, 143-152.

Steinke, S., Kienast, M., Pflaumann, U., Weinelt, M., and K. Stattegger, 2001. A high resolution SST record from the tropical South China Sea (16,500-3,500 ys B.P.), *Quaternary Research*, 55, 352-362.

Sarnthein, M., Stattegger, K., Dreger, D., Erlenkeuser, H., Grootes, P., Haupt, B., Jung, S., Kiefer, T., Kuhnt, W., Pflaumann, U., Schäfer-Neth, C., Schulz, H., Schulz, M., Seidov, D., Simstich, J., van Kreveld, S., Vogelsang, E., Völker, A., and M. Weinelt, 2001. Fundamental modes and abrupt changes in North Atlantic circulation and climate over the last 60 ky – Concepts, reconstruction, and numerical modelling, In: Schäfer, P., Ritzrau, W., Schlueter, M.,

Thiede, J. (eds.), *The northern North Atlantic: a changing environment*, Springer Verlag, Berlin, 365-410.

Weinelt, M., Kuhnt, W., Sarnthein, M., Altenbach, A., Costello, O., Erlenkeuser, H., Pflaumann, U., Simstich, J., Struck, U., Thies, A., Trauth, M. H., and E. Vogelsang, 2001.

Paleoceanographic Proxies in the Northern North Atlantic, In: *The Northern North Atlantic: A changing environment*, M. Schlüter, P. Schäfer, W. Ritzrau, J. Thiede (eds.), Springer, Berlin, 319-352.

Pinot, S., Ramstein, G., Marsiat, I., De Vernal, A., Peyron, O., Duplessy, J. C., and M. Weinelt, 1999. Sensitivity of the European LGM climate to North Atlantic sea-surface temperature, *Geophys. Res. Letters*, 26, 1893-1896.

Bauch, H. A., Erlenkeuser, H., Fahl, K., Spielhagen, R., Weinelt, M. S., Amdruleit, H., and R. Henrich, 1999.

Evidence for a steeper Eemian than Holocene sea surface temperature gradient between Arctic and sub-Arctic regions, *Paleo Paleo Paleo*, 145, 95-117.

Rosell-Melé, A., Weinelt, M., Koç, N., Jansen, E., and M. Sarnthein, 1998.

Variability of the Arctic front during the last climatic cycle: application of a novel molecular proxy, *Terra Nova*, 10, 86-89.

Bauch, H. A. and M. Weinelt, 1997.

Surface Water Changes in the Norwegian Sea during the last Deglacial and Holocene Times. *Quaternary Science Reviews*, 16, 1115-1124.

Seidov, D., Sarnthein, M., Statterger, K., Prien, R., and M. Weinelt, 1996.

North Atlantic Ocean Circulation during the last glacial maximum and subsequent meltwater event: A numerical model. *J. Geophys. Res.*, 101, 16,305-16,332.

Weinelt, M., Sarnthein, M., U. Pflaumann. & Schulz, H., Jung, S. & Erlenkeuser, H., 1996.

Icelfree Nordic Seas during the Last Glacial Maximum? Potential sites of deepwater formation. Palaeoclimates, 1, 283-309.

Sarnthein, M., Jansen, E., Weinelt, M., Arnold, M., Duplessy, J.-C., Erlenkeuser, H., Flatøy, A., Johannessen, G., Johannessen, T., Jung, S., Koc, N., Maslin, M., Pflaumann, U. & Schulz, H., 1995.

Variations in atlantic surface ocean paleoceanography, 50° - 85°N: A time slice record of the last 30,000 years.

Paleoceanography, 1063-1094.

Dupont, L. and M. Weinelt., 1996.

Vegetation history of the savanna corridor between the Guinean and Congolian rain forest during the last 150,000 years.

Veget Hist Archaeobot 5, 273-292.

Weinelt, M., Sarnthein, M., Jansen, E., 1995. Younger Dryas cold spell and a Holocene type circulation in the Nordic Seas? *Koninklijke Nederlandse Akademie van Wetenschappen, Verhandelingen,*

Afd. Naturkunde, Erste Reeks. deel 44, 109-115.

Scholten, J. C., Botz, R., Paetsch, H., Stoffers, P. and M. Weinelt, 1994.
High resolution uranium series dating of Norwegian - Greenland Sea sediments: ^{230}Th vs. $\delta^{18}\text{O}$ -stratigraphy.
Marine Geology, 121, 77-85.

Sarnthein, M., Jansen, E., Arnold, M., Duplessy, J.C., Erlenkeuser, H., Flatoy, A., Veum, T., Vogelsang, E., and M.S. Weinelt, 1992. $\delta^{18}\text{O}$ -time slice reconstruction of meltwater anomalies at termination I in the North Atlantic between 50 and 80°N. In: E. Bard and W.S. Broecker (eds.) *The last deglaciation: Absolute and Radiocarbon chronologies*. NATO ASI Series, 11, 183-200.

Weinelt, M.; Sarnthein, M., Vogelsang, E. & Erlenkeuser, H., 1991. Early decay of the Barents Shelf Ice Sheet - spread of stable isotope signals across the eastern Norwegian Sea.
Norsk Geologisk Tidsskrift, 71, 137-140.

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Andere Veröffentlichungen:

Sarnthein, M., Weinelt et al. , 2002.

Coring a sediment record of variations in the Denmark Strait Overflow. Cruise Report ARK XVIII-1a, *Berichte zur Polarforschung*, 2002.

Weinelt, M. 2002.

Zur sekulären Veränderlichkeit der Deckschicht im Nördlichen Nordatlantik im letzten Eiszeitzyklus. *Habilitationsschrift*, Universität Kiel, 2002.

Weinelt, M. 1993.

Veränderungen der Oberflächenzirkulation im Europäischen Nordmeer während der letzten 60.000 Jahre - Hinweise aus stabilen Isotopen. *Dissertation*.

Berichte aus dem Sonderforschungsbereich 313, 41, 1-107.