

List of Publications - Barbara Wohlfarth

Peer-reviewed articles in international journals

1. Muschitiello, F., Lea, J., Greenwood, S. L., Nick, F. M., Brunnberg, L., MacLeod, A., **Wohlfarth, B.** Precise timing of the first drainage of the Baltic Ice Lake from Swedish glacial-varve chronologies. *Boreas* (in press).
2. Muschitiello, F., Pausata, F. S. R., Smittenberg, R. H., Salih, A. A. M., Watson, J. E., Brooks, S. J., Whitehouse, N. J., **Wohlfarth, B.** (2015): Fennoscandian freshwater controls Greenland hydroclimate shifts at the onset of Younger Dryas. *Nature Communications*, 6, 8939. doi:10.1038/ncomms9939.
3. Chawchai, S., Yamoah, K. K. A., Smittenberg, R. H., Kurkela, J., Väiliranta, M., *Chabangborn, A., Blaauw, M., Reimer, P. J., **Wohlfarth, B.** (2015): Lake Kumphawapi revisited – a synthesis of Holocene environmental and climatic changes for NE Thailand. *The Holocene* (online) doi: 10.1177/0959683615612565.
4. Chawchai, S., Kylander, M., Chabangborn, A., Löwemark, L., **Wohlfarth, B.** (2015): Testing commonly used XRF core scanning based proxies for organic rich lake sediments and peat. *Boreas* (in press). DOI: 10.1111/bor.12145.
5. Muschitiello, F., Andersson, A., **Wohlfarth, B.**, Smittenberg, R. H. (2015): The C20 highly branched isoprenoid biomarker – a new diatom-sourced proxy for summer trophic conditions. *Organic Geochemistry*, 81, 27-33. doi:10.1016/j.orggeochem.2015.01.007
6. Chawchai, S., Chabangborn, A., Fritz, S., Väiliranta, M., Mörth, C. M., Blaauw, M., Reimer, P. J., Krusic, P. J., Löwemark, L., **Wohlfarth, B.** (2015): Hydroclimatic shifts in northeast Thailand during the last two millennia – the record of Lake Pa Kho. *Quaternary Science Reviews*, 111, 62-71. doi:10.1016/j.quascirev.2015.01.007.
7. Muschitiello, F. & **Wohlfarth, B.** (2015): Time-transgressive environmental shifts at the onset of the Younger Dryas across Northern Europe. *Quaternary Science Reviews*, 109, 49-56. <http://dx.doi.org/10.1016/j.quascirev.2014.11.015>
8. Dutton, A., Webster, J. M., Zwarts, D., Lambeck, K. & **Wohlfarth, B.** (2015): Tropical tales of polar ice: Evidence of last interglacial polar ice sheet retreat recorded by fossil reefs of the granitic Seychelles islands. *Quaternary Science Reviews*, 107, 182-196. doi:10.1016/j.quascirev.2014.10.025
9. Ampel, L., Kylander, M., Steinthorsdottir, M. & **Wohlfarth, B.** (2015): Abrupt climate change and early lake development – the Late Glacial diatom flora at Hässeldala Port southeastern Sweden. *Boreas*, 44, 94-102. DOI:10.1111/bor.12081.
10. Steinthorsdottir, M., de Boer, A., Oliver, K. I. C., Muschitiello, F., Blaauw, M. & **Wohlfarth, B.** (2015): Response to: Comment on "Synchronous records of pCO₂ and Delta 14C suggest rapid, ocean-derived pCO₂ fluctuations at the onset of Younger Dryas" (Steinthorsdottir et al., 2014, *Quaternary Science Reviews* 99, 84-96). *Quaternary Science Reviews*, 107, 270-273. <http://dx.doi.org/10.1016/j.quascirev.2014.10.020>.
11. Lascu, I., **Wohlfarth, B.**, Onac, B. P., Björck, S. & Kromer, B. (2014): A Lateglacial paleo-lake record from an up-dammed river valley in northern Transylvania, Romania. *Quaternary International* (online). <http://dx.doi.org/10.1016/j.quaint.2014.11.041>.
12. Steinthorsdottir, M., de Boer, A., Oliver, K. I. C., Muschitiello, F., Blaauw, M., Reimer, P. J. & **Wohlfarth, B.** (2014): Synchronous records of pCO₂ and D14C suggest rapid, ocean-driven

pCO₂ fluctuations at the onset of Younger Dryas. *Quaternary Science Reviews*, 99, 84-96.
doi:10.1016/j.quascirev.2014.06.021

13. Chabangborn, A. & **Wohlfarth, B.** (2014): Climate over mainland Southeast Asia 15-5 ka BP. *Journal of Quaternary Science*, 29, 445-454. DOI: 10.1002/jqs.2715
14. Chabangborn, A., Brandefelt, J. & **Wohlfarth, B.** (2013): The Asian monsoon climate during the Last Glacial Maximum: palaeo-data – model comparisons. *Boreas*, 43, 220–242. 10.1111/bor.12032. ISSN 0300-9483.
15. Muschitiello, F., Schwark, L., **Wohlfarth, B.**, Sturm, C. & Hammarlund, D. (2013): New evidence of Holocene atmospheric circulation dynamics based on lake sediments from southern Sweden: a link to the Siberian High. *Quaternary Science Reviews*, 77, 113–124.
16. Chawchai, S., Chabangborn, A., Kylander, M., Löwemark, L., Mörth, C-M. Blaauw, Klubseang, W., M., Reimer, P. J., Fritz, S.C. & **Wohlfarth, B.** (2013): Lake Kumphawapi – an archive of Holocene paleoenvironmental and paleoclimatic changes in northeast Thailand. *Quaternary Science Reviews*, 68, 59–75.
17. Fernández, M., Björck, S., **Wohlfarth, B.**, Maidana, N. I., Unkel, I. & van der Putten, N. (2013): Diatom assemblage changes in lacustrine sediments from Isla de los Estados, southernmost South America, in response to shifts in the southwesterly wind belt during the last deglaciation. *Journal of Paleolimnology*, 50, 433–446. DOI 10.1007/s10933-013-9736-4.
18. Steinthorsdottir, M., **Wohlfarth, B.**, Kylander, M. E., Blaauw, M. & Reimer, P. J. (2013): Stomatal proxy record of CO₂ concentrations from the Last Termination suggests an important role for CO₂ at climate transitions. *Quaternary Science Reviews*, 68, 43–58.
19. Kylander, M. E., Klaminder, J., **Wohlfarth, B.** & Löwemark, L. (2013): Geochemical responses to paleoclimatic changes in Southern Sweden since the Late Glacial: The Hässeldala Port lake sediment record. *Journal of Paleolimnology*, 50, 57–70. DOI 10.1007/s10933-013-9704-z.
20. **Wohlfarth, B.**, Klubseang, W., Inthongkaew, S., Fritz, S. C., Blaauw, M., Reimer, P. J., Chabangborn, A., Löwemark, L., Chawchai, S. (2012): Natural and anthropogenic environmental changes in Northeast Thailand reconstructed from a Holocene tropical wetland. *Global Planetary Change*, 92-93, 148-161.
21. Van Meerbeek, C. J., Renssen, H., Roche, D. M., **Wohlfarth, B.**, Bohncke, S., Bos, H., Engels, S., Helmens, K. F., Sánchez-Goñi, M.-F., Svensson, A. & Vandenberghe, J. (2012): The nature of MIS 3 stadial-interstadial transitions in Europe: new insights from model-data comparisons. *Quaternary Science Reviews*, 30, 3618-3637.
22. Brandefelt, J., Kjellström, E., Näslund, J.-O., Strandberg, G., Voelker, A. H. L., **Wohlfarth, B.** (2011): A coupled climate model simulation of Marine Isotope Stage 3 stadial climate. *Climate of the Past Discussion*, 7, 79-118, 2011. www.clim-past-discuss.net/7/79/2011/doi:10.5194/cpd-7-79-2011.
23. Kylander, M. E., Ampel, L., **Wohlfarth, B.**, Veres, D. (2011): High-resolution Itrax analysis of Les Echets (France) sedimentary sequence: linking geochemical, biological and physical proxies. *Journal of Quaternary Science*. DOI: 10.1002/jqs.1438.
24. Blaauw, M. & **Wohlfarth, B.** (2010): Reply: Were glacial climate events simultaneous between Greenland and France? A quantitative comparison using non-tuned chronologies. *Journal of Quaternary Sciences*, 25, 1047.
25. **Wohlfarth, B.** Alexanderson, H., Ampel, L., Bennike, O., Engels, S., Johnsen, T., Lundqvist, J. & Reimer, P. (2010): Pilgrimstad revisited – multi-proxy reconstructions of Early/Middle Weichselian climate and environment at a key site in central Sweden. *Boreas*. DOI: 10.1111/j.1502-3885.2010.00192.x
26. Unkel, I., Fernandez, M., Björck, S., Ljung, K. & **Wohlfarth, B.** (2010): Records of environmental changes during the Holocene from Isla de los Estados (54.4°S), southeastern Tierra del Fuego. *Global and Planetary Change*, 74, 99-113.

27. Blaauw, M., **Wohlfarth, B.**, Christen, J. A., Ampel, L., Veres, D., Hughen, K. A., Preusser, F., Svensson, A. (2010): Were last glacial climate events simultaneous between Greenland and Western Europe? *Journal of Quaternary Sciences*, 25/3, 387-394. DOI: 10.1002/jqs.1330.
28. **Wohlfarth, B.** (2010): Ice-free conditions in Sweden during Marine Isotope Stage 3? *Boreas*, 39/2, 377-398. DOI: 10.1111/j.1502-3885.2009.00137.x
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31. Ampel, L., Bigler, C., **Wohlfarth, B.**, Risberg, J., Lotter, A. F., Veres, D. (2010): Modest summer temperature variability during DO cycles in Western Europe. *Quaternary Science Reviews*, 29, 1322-1327.
32. Ampel, L., **Wohlfarth, B.**, Risberg, J., Veres, D., Leng, M. & Kaislahti, P. (2010): Diatom assemblage dynamics during abrupt climate change: the response of diatoms to Dansgaard-Oeschger cycles during the last glacial period. *Journal of Paleolimnology*, 44, 397-404.
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34. Veres, D., Lallier-Vergès, E., **Wohlfarth, B.**, Lacourse, T., Kéravis, D., Björck, S., Preusser, F., Andrieu-Ponel, V. and Ampel, L. (2009): Climate-driven changes in lake conditions during late MIS 3 and MIS 2: a high-resolution geochemical record from Les Echets, France. *Boreas* 38, 230-243.
35. Blaauw, M., **Wohlfarth, B.**, Christen, J. A., Ampel, L., Veres, D., Hughen, K. A., Preusser, F., Svensson, A. (2008): Were last glacial climate events simultaneous between Greenland and Western Europe? *Climate of the Past Discussions* 4, 1203-1217.
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40. Veres, D., Davies, S. M., **Wohlfarth, B.**, Preusser, F., Wastegård, S., Ampel, L., Hormes, A., Possnert, G., Raynal, J.-P., Vernet, G. (2008): Age, origin and significance of a new middle MIS 3 tephra horizon identified within a long-core sequence from Les Echets, France. *Boreas*, 37, 434-443.
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42. Feurdean, A., Klotz, S., Brewer, S., Mosbrugger, V., Tamas, **Wohlfarth, B.** (2008): Lateglacial climate development in NW Romania – Comparative results from three quantitative pollen-based methods. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 265, 121-133.
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44. Kromer, B., **Wohlfarth, B.** & Turk, D. (2007): Radiocarbon and ice-core chronologies during glacial and deglacial times. *EOS*, 88, 278.

45. Davies, S. M., Elmquist, M., Bergman, J. **Wohlfarth, B.**, Hammarlund, D. (2007): Cryptotephra sedimentation processes within two lacustrine sequences from west central Sweden. *The Holocene*, 17/3, 1-13.
46. Veres, D., **Wohlfarth, B.**, Andrieu-Ponel, V., Björck, S., de Beaulieu, J.L., Digerfeldt, G., Ponel, P., Ampel, L., Davies, S., Gandouin, E., Belmecheri, S. (2007): Lithostratigraphy of the Les Echets Basin, France: tentative correlations between different core sites. *Boreas*, 36, 326-340.
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49. Helmens, K. F., Bos, J. A. A., Engels, S., van Meerbeeck, C. J., Bohncke, S. J. P., Renssen, H., Heiri, O., Brooks, S. J., Seppä, H., Birks, H. J. B., **Wohlfarth, B.** (2007): Present-day temperatures in northern Scandinavia during the Last Glaciation. *Geology*, 35, 11, 987-990.
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