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DR. MICHAEL FRITZ

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EDUCATION

06/2008 – 03/2012

UNIVERSITY OF POTSDAM, Potsdam, Germany

PhD, Geosciences

Magna Cum Laude ("very good")

Topic: "Late Quaternary environmental dynamics of the western Canadian Arctic: Permafrost and lake sediment archives at the eastern Beringian edge"

10/2002 – 04/2008

UNIVERSITY OF GREIFSWALD, Greifswald, Germany

Diploma, Geography

Very good (1.0)

Topic: "Late Quaternary palaeoenvironmental records from a glacially and permafrost affected island in the Canadian Arctic (Herschel Island, Yukon Coastal Plain)"

PROFESSIONAL EXPERIENCE

since 04/2012

RESEARCH SCIENTIST, Alfred Wegener Institute

08/2015 – 01/2016

VISITING SCHOLAR, Department of Geosciences Utrecht University, Utrecht, the Netherlands

10/2011 – 03/2012

RESEARCH ASSOCIATE, Alfred Wegener Institute

06/2008 – 04/2012

PHD STUDENT, University of Potsdam & Alfred Wegener Institute, financed by a fellowship of the German Federal Environmental Foundation (DBU)

RESEARCH GRANTS
(in EUR)

2016 – 2018	QUANTIFYING CARBON, NUTRIENT AND SEDIMENT FLUXES IN THE ARCTIC NEARSHORE ZONE ALONG ERODING PERMAFROST COASTS Daimler and Benz Foundation, PI (40,000 €)
2016 – 2018	A FROZEN-GROUND CARTOON: EXPLAINING INTERNATIONAL PERMAFROST RESEARCH USING COMIC STRIPS Principal investigator of the IPA (International Permafrost Association) Action Group (5,000 €)
2011 – 2013	CARBON RELEASE FROM DEGRADING PERMAFROST IN THE WESTERN CANADIAN ARCTIC Federal Ministry of Education and Research (BMBF) co-PI (70,268 €)
2009 – 2011	PAST, PRESENT AND FUTURE CLIMATE CHANGE EFFECTS ON PERMAFROST LANDSCAPES FROM THE WESTERN CANADIAN ARCTIC Federal Ministry of Education and Research (BMBF) co-PI (32,348 €)
2009	THE ENVIRONMENTAL DYNAMICS OF THE WESTERN CANADIAN ARCTIC DURING THE NATURAL CLIMATE OSCILLATIONS OF THE LATE QUATERNARY German Science Foundation (DFG), co-PI (25,432 €)
2008 – 2011	GERMAN FEDERAL ENVIRONMENTAL FOUNDATION (DBU) PhD fellowship (~ 55,000 €)
2008	PAST, PRESENT AND FUTURE CLIMATE CHANGE EFFECTS ON PERMAFROST LANDSCAPES FROM THE WESTERN CANADIAN ARCTIC Federal Ministry of Education and Research (BMBF) co-PI (6,632 €)
since 2008	CONFERENCE TRAVEL AWARDS. Over 13,000 € provided by IODP, IASC, the German Science Foundation, the German Academic Exchange Service, Potsdam Graduate School, Graduate School for Polar and Marine Research, German Polar Society, and others.

EXPEDITION / FIELD
EXPERIENCE

2016	Canadian Arctic «Yukon Coast 2016», Alfred Wegener Institute
2013	Canadian Arctic «Yukon Coast 2013», Alfred Wegener Institute
2012	Canadian Arctic «Yukon Coast 2012», Alfred Wegener Institute
2009	Canadian Arctic «Yukon Coast 2009», Alfred Wegener Institute
2009	Canadian Arctic «Yukon Lakes 2009», Alfred Wegener Institute
2008	Canadian Arctic «Yukon Coast 2008», Alfred Wegener Institute
2007	Lake Ohrid , Macedonia, University Cologne
2007	Antarctica , Prydz Bay Region with RV Polarstern, Alfred Wegener Institute
2006	Baltic Sea with RV Prof. Albrecht Penck, Leibniz Institute for Baltic Sea Research Warnemünde (IOW), Rostock
2005	Darß peninsula , University of Greifswald

2005 **Greenland**, Kangerlussuaq region, University of Greifswald

TEACHING

- since 2017 **MODULE LECTURER, "COASTAL DYNAMICS" (4 SWS)**
Master course, University of Potsdam, Institute for Earth and Environmental Science
- since 2014 **COURSE LECTURER, "FIELD COURSE PHYSICAL GEOGRAPHY" (2 SWS)**
Bachelor course, University of Potsdam, Institute for Earth and Environmental Science
- since 2013 **GUEST LECTURER, "PERMAFROSTLANDSCHAFTEN" (2 SWS)**
Master course, University of Potsdam, Institute for Earth and Environmental Science
- 2014 – 2015 **SENIOR TEACHING PROFESSIONALS PROGRAM**, University of Potsdam
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SCIENCE MANAGEMENT

- since 2012 EXECUTIVE COMMITTEE MEMBER of the Arctic in Rapid Transition (ART) Network
- 2017 SESSION CHAIR - ASLO 2017 Aquatic Sciences Meeting
- 2016 SESSION CHAIR - ECSA 56 Coastal systems in transition
- 2016 EGU SESSION CONVENOR - Arctic ocean and cryosphere in rapid transition
- 2015 – 2017 POSTDOC REPRESENTATIVE at AWI, Potsdam
- 2014 – 2016 LOCAL ORGANIZING COMMITTEE MEMBER of the 11th International Conference on Permafrost 2016, Potsdam, Germany
- 2014 LOCAL ORGANIZING COMMITTEE MEMBER of the Past Gateways Conference 2015, Potsdam, Germany
- 2012 – 2014 CHIEF ORGANIZER, 'Permafrost Young Researchers Workshop 2014', 17-18 June 2014, Evora, Portugal
- 2009 – 2012 EXECUTIVE COMMITTEE MEMBER of the Permafrost Young Researchers Network (PYRN)
- 2012 SPOKESPERSON of PYRN Germany, Austria and Switzerland
- 2012 SESSION CHAIR, "Permafrost and the past", Tenth International Conference on Permafrost, Salekhard, Russia, June 2012
- 2012 SESSION CHAIR, "Past, Present and Future Polar Climate Change", International Polar Year Conference 2012, Montréal, Canada, April 2012
- 2009 – 2010 PHD STUDENT REPRESENTATIVE at AWI, Potsdam
- 2006 APPOINTMENT COMMISSION MEMBER for W3-professorship „Applied Geography“, University of Greifswald
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PEER-REVIEW

Nature, Quaternary Science Reviews, The Cryosphere, Permafrost and Periglacial Processes, Sedimentary Geology, Zeitschrift für Geomorphologie

PROFESSIONAL MEMBERSHIPS

since 2016	American Geophysical Union (AGU)
since 2015	European Geophysical Union (EGU)
since 2014	Arctic in Rapid Transition (ART)
since 2010	International Permafrost Association (IPA)
since 2009	Association of Polar Early Career Scientists (APECS)
since 2008	Deutsche Gesellschaft für Polarforschung (DGP)
since 2008	Permafrost Young Researchers Network (PYRN)
since 2008	Potsdam Graduate School (PoGS)
2008 – 2012	Graduate School for Polar and Marine Research (POLMAR)

SUPERVISION

since 2016	CAROLINE COCH, PhD thesis "Impact of hydrology and snow on organic matter transport and degradation in thermokarst catchments in the Canadian Arctic", University of Potsdam
2016 – 2017	THORSTEN RIEDEL, Master thesis "Assessing permafrost erosion in the Canadian Beaufort Sea, Herschel Island – a biomarker approach", University of Bremen
2016 – 2017	GREGOR PFALZ, Master thesis "Lateral transport of sediment and organic matter, derived from coastal erosion, into the nearshore zone of the southern Beaufort Sea, Canada", Technical University of Dresden
2015 – 2016	SASKIA RUTTOR, Master thesis "Organic carbon and nitrogen degradation in a retrogressive thaw slump on Herschel Island, western Canadian Arctic", University of Potsdam
2014	STEFAN BALTRUSCHAT, Bachelor thesis "Soil organic matter and stable carbon isotopes in surficial permafrost on Herschel Island, Yukon Territory, Canada", Technical University of Darmstadt
since 2014	ANNA IRRGANG (née KONOPCZAK), PhD thesis "Past, present and future coastal erosion rates on the Yukon Coastal Plain, Canada", University of Potsdam
since 2014	GEORGE TANSKI, PhD thesis "Geochemical fluxes due to the coastal erosion of organic carbon-rich permafrost sediments", University of Potsdam
since 2012	BORIS RADOSAVLJEVIC, PhD thesis "Underwater shoreface erosion and longshore current patterns around Herschel Island, Yukon Territory", University of Potsdam
2012 – 2017	STEFANIE WEEGE, PhD thesis "Retrogressive thaw slump induced sediment and nutrient discharge along the Yukon Coastal Plain", University of Potsdam
2012 – 2017	JULIANE WOLTER, PhD thesis "Late Holocene climate variability on the Yukon Coastal Plain", University of Potsdam
2012 – 2016	JOSEFINE LENZ, PhD thesis "Permafrost degradation and thermokarst dynamics in the Alaskan and western Canadian Arctic", University of Potsdam

9. Obu, J., Lantuit, H., **Fritz, M.**, Pollard, W.H., Sachs, T., Günther, F., **2016**. Relation between planimetric and volumetric erosion of permafrost coasts: a case study from Herschel Island, western Canadian Arctic. *Polar Research* 35, 30313. [doi:10.3402/polar.v35.30313](https://doi.org/10.3402/polar.v35.30313)
10. Wolter, J., Lantuit, H., **Fritz, M.**, Macias-Fauria, M., Myers-Smith, I., Herzsuh, U., **2016**. Vegetation composition and shrub expansion in ice-wedge polygons on the Yukon coast are strongly linked to microrelief. *Polar Research* 35, 27489. [doi:10.3402/polar.v35.27489](https://doi.org/10.3402/polar.v35.27489)
11. Radosavljevic, B., Lantuit, H., Pollard, W., Overduin, P., Couture, N., Sachs, T., Helm, V., **Fritz, M.**, **2016**. Erratum to: Erosion and Flooding - Threats to Coastal Infrastructure in the Arctic: A Case Study from Herschel Island, Yukon Territory, Canada. *Estuaries and Coasts* 39, 1294–1295. [doi:10.1007/s12237-016-0115-z](https://doi.org/10.1007/s12237-016-0115-z)
12. Radosavljevic, B., Lantuit, H., Pollard, W., Overduin, P., Couture, N., Sachs, T., Helm, V., **Fritz, M.**, **2016**. Erosion and Flooding - threats to coastal infrastructure in the Arctic: A case study from Herschel Island, Yukon Territory, Canada. *Estuaries and Coasts* 39, 900-915. [doi:10.1007/s12237-015-0046-0](https://doi.org/10.1007/s12237-015-0046-0)
13. Lenz, J, Jones, B.M., Wetterich, S., Tjallingii, R., **Fritz, M.**, Arp, C.D., Rudaya, N., Grosse, G. **2016**. Impacts of shore expansion and catchment characteristics on lacustrine thermokarst records in permafrost lowlands, Alaska Arctic Coastal Plain. *arktos* 2: 25. [doi:10.1007/s41063-016-0025-0](https://doi.org/10.1007/s41063-016-0025-0)
14. **Fritz, M.**, Opel, T., Tanski, G., Herzsuh, U., Meyer, H., Eulenburg, A., Lantuit, H., **2015**. Dissolved organic carbon (DOC) in Arctic ground ice. *The Cryosphere* 9, 737-752. [doi:10.5194/tc-9-737-2015](https://doi.org/10.5194/tc-9-737-2015)
15. **Fritz, M.**, Deshpande, B.N., Bouchard, F., Högström, E., Malenfant-Lepage, J., Morgenstern, A., Nieuwendam, A., Oliva, M., Paquette, M., Rudy, A.C.A., Siewert, M.B., Sjöberg, Y., Weege, S., **2015**. Brief Communication: Future avenues for permafrost science from the perspective of early career researchers. *The Cryosphere* 9, 1715-1720. [doi:10.5194/tc-9-1715-2015](https://doi.org/10.5194/tc-9-1715-2015)
16. Wegner, C., Bennett, K.E., de Vernal, A., Forwick, M., **Fritz, M.**, Heikkilä, M., Łacka, M., Lantuit, H., Laska, M., Moskalik, M., O'Regan, M., Pawłowska, J., Promińska, A., Rachold, V., Vonk, J.E., Werner, K., **2015**. Variability in transport of terrigenous material on the shelves and the deep Arctic Ocean during the Holocene. *Polar Research* 34, 24964. [doi:10.3402/polar.v34.24964](https://doi.org/10.3402/polar.v34.24964)
17. Lenz, J., **Fritz, M.**, Schirrmeister, L., Lantuit, H., Wooller, M.J., Pollard, W.H., Wetterich, S., **2013**. Periglacial landscape dynamics in the western Canadian Arctic: Results from a thermokarst lake record on a push moraine (Herschel Island, Yukon Territory). *Palaeogeography, Palaeoclimatology, Palaeoecology* 381–382, 15-25. [doi:10.1016/j.palaeo.2013.04.009](https://doi.org/10.1016/j.palaeo.2013.04.009)
18. **Fritz, M.**, Herzsuh, U., Wetterich, S., Lantuit, H., De Pascale, G.P., Pollard, W.H., Schirrmeister, L., **2012**. Late glacial and Holocene sedimentation, vegetation, and climate history from easternmost Beringia (northern Yukon Territory, Canada). *Quaternary Research* 78, 549-560. [doi:10.1016/j.yqres.2012.07.007](https://doi.org/10.1016/j.yqres.2012.07.007)
19. **Fritz, M.**, Wetterich, S., Schirrmeister, L., Meyer, H., Lantuit, H., Preusser, F., Pollard, W.H., **2012**. Eastern Beringia and beyond: Late Wisconsinan and Holocene landscape dynamics along the Yukon Coastal Plain, Canada. *Palaeogeography, Palaeoclimatology, Palaeoecology* 319–320, 28-45. [doi:10.1016/j.palaeo.2011.12.015](https://doi.org/10.1016/j.palaeo.2011.12.015)
20. Lantuit, H., Pollard, W.H., Couture, N., **Fritz, M.**, Schirrmeister, L., Meyer, H., Hubberten, H.W., **2012**. Modern and Late Holocene Retrogressive Thaw Slump Activity on the Yukon Coastal Plain and Herschel Island, Yukon Territory, Canada. *Permafrost and Periglacial Processes* 23, 39-51. [doi:10.1002/ppp.1731](https://doi.org/10.1002/ppp.1731)
21. **Fritz, M.**, Krautblatter, M., Sanders, T., Lantuit, H., **2011**. Das "Permafrost Young Researchers Network" (PYRN) - Eine deutsche Perspektive. *Polarforschung* 80, 187-188.

22. **Fritz, M.**, Wetterich, S., Meyer, H., Schirrmeister, L., Lantuit, H., Pollard, W.H., **2011**. Origin and characteristics of massive ground ice on Herschel Island (western Canadian Arctic) as revealed by stable water isotope and hydrochemical signatures. *Permafrost and Periglacial Processes* 22, 26-38. doi:10.1002/ppp.714
23. **Fritz, M.**, Unkel, I., Lenz, J., Gajewski, K., Frenzel, P., Paquette, N., Lantuit, H., Körte, L., Wetterich, S., **under review**. Regional environmental change versus local signal preservation in Holocene thermokarst lake sediments: A case study from Herschel Island, Yukon (Canada). *Journal of Paleolimnology*.

in preparation:

Tanski, G., Lantuit, H., Wagner, D., **Fritz, M.** Rapid greenhouse gas release from eroding permafrost coasts. submitted to *Nature Geoscience*.

Fritz, M. et al. The Arctic nearshore zone as critical turnover area for organic matter from collapsing permafrost coasts. to be submitted to *Scientific Reports*.

Fritz, M. et al. Rapid accumulation of permafrost organic carbon into seafloor sediments in the Arctic. to be submitted to *Global Biogeochemical Cycles*.

Liebner, S., Lehr, C., Manke N., Obu, J., Lantuit, H., **Fritz, M.** Potential methane production in thawing permafrost is constrained by methanogenic population size, carbon density, and substrate. to be submitted to *Global Change Biology*.

INVITED TALKS

- 2017** European Geophysical Union, Permafrost Young Researcher Workshop, Vienna, Austria
- 2015** Geochemistry Seminar, Utrecht University, Utrecht, the Netherlands
- 2015** Early career workshop, Arctic Science Summit Week (ASSW), Toyama, Japan
- 2013** Geographical Seminar Series, University of Leipzig, Leipzig, Germany
- 2013** German Federal Environmental Foundation (DBU), Osnabrück, Germany
- 2012** IODP-ICDP workshop, Kananaskis, Alberta, Canada
- 2010** Potsdam Science Lounge – The four Elements Series, PEARLS Science Network, Potsdam, Germany

THESES

1. Fritz, M. 2012. Late Quaternary environmental dynamics of the western Canadian Arctic – Permafrost and lake sediment archives at the eastern Beringian edge, PhD thesis, University of Potsdam. hdl:10013/epic.38994.
2. Fritz, M. 2008. Late Quaternary palaeoenvironmental records from a glacially and permafrost affected island in the Canadian Arctic (Herschel Island, Yukon Coastal Plain). Diploma thesis, Ernst Moritz Arndt University Greifswald, Institute for Geography and Geology. hdl:10013/epic.39425.

CONFERENCE PRESENTATIONS

(only first author contributions listed)

1. Fritz, M., Lantuit, H. (2017): Collapsing permafrost coasts in the Arctic. European Geosciences Union General Assembly, Vienna, Austria, 23-28 April 2017. **(talk)**
2. Fritz, M., Tanski, G., Goncalves-Araujo, R., Heim, B., Koch, B., Lantuit, H. (2017): Tracing marine and terrestrial sources of dissolved organic matter in the Arctic nearshore zone (Canadian Beaufort Sea). ASLO Aquatic Science Meeting, Honolulu, USA, 26 February - 03 March 2017. **(talk)**
3. Fritz, M., Tanski, G., Goncalves-Araujo, R., Heim, B., Koch, B., Lantuit, H. (2016): Dissolved organic matter properties in arctic coastal waters are strongly influenced by degrading permafrost coasts and by local meteorology. AGU Fall Meeting, San Francisco, USA, 12-16 December 2016. **(talk)**
4. Fritz, M., Tanski, G., Goncalves-Araujo, R., Heim, B., Koch, B., Lantuit, H. (2016): Dissolved organic matter properties in arctic coastal waters are strongly influenced by fluxes from permafrost coasts and by local meteorology. XI. International Conference on Permafrost, Potsdam, Germany, 20-24 June 2016. **(talk)**
5. Fritz, M., Lantuit, H. (2016): Modern and Holocene fluxes of sediment and organic matter into the Arctic Ocean. XI. International Conference on Permafrost, Potsdam, Germany, 20-24 June 2016.
6. Fritz, M., Morgenstern, A., Deshpande, B., Bouchard, F., Högström, E., Malenfant-Lepage, J., Nieuwendam, A., Oliva, M., Paquette, M., Rudy, A., Siewert, M., Sjöberg, Y., Weege, S. (2016): The future of permafrost research: a contribution from early career researchers to ICARP III and beyond. XI. International Conference on Permafrost, Potsdam, Germany, 20-24 June 2016. **(talk)**
7. Fritz, M., Tanski, G., Lantuit, H. (2015): Quantifying organic carbon and sediment fluxes to the Arctic Ocean during the Holocene: the contribution of coastal erosion. ArcticNet Annual Scientific Meeting ASM2015, Vancouver, British Columbia, Canada, 7-11 December 2015.
8. Fritz, M., Vonk, J.E., Lantuit, H. (2015): Quantifying organic carbon and sediment fluxes to the Arctic Ocean: the contribution of coastal erosion today and during the Holocene. Annual Symposium of the Netherlands Polar Programme: Polar Tipping Points - Identifying Rapid Changes in the Polar Regions, The Hague, the Netherlands, 5 November 2015.
9. Fritz, M., Wolter, J. and Lantuit, H. (2015): Arctic coastal erosion and the transport of terrigenous material into the Arctic Ocean during the Holocene. XIX. INQUA Congress, Nagoya, Japan, 26 July-2 August 2015.
10. Fritz, M., Wolter, J., Rudaya, N., Palagushkina, O., Nazarova, L., Krautblatter, M. and Obu, J. (2015): Ice wedge polygon development on different temporal and spatial scales in the northern Yukon, Canada. Past Gateways Conference and Workshop, Potsdam, Germany, 18-22 May 2015. **(talk)**
11. Fritz, M., Lenz, J., Gajewski, K., Frenzel, P., Unkel, I. and Lantuit, H. (2015): Thermokarst lake sediment as indicator of climate variations: precise environmental archive or wishful thinking? Arctic Science Summit Week, Toyama, Japan, 23-30 April 2015. **(talk)**
12. Fritz, M., Tanski, G., Herzsuh, U., Couture, N. J., Opel, T., Meyer, H. and Lantuit, H. (2014): Arctic coastal erosion mobilizes dissolved organic carbon (DOC) from permafrost. Arctic in Rapid Transition workshop: Integrating spatial and temporal scales in the changing Arctic System: towards future research priorities (ISTAS), Plouzané, France, 21-24 October 2014. **(talk)**
13. Fritz, M., Tanski, G., Herzsuh, U., Couture, N. J., Opel, T., Meyer, H. and Lantuit, H. (2014): Mobilization of dissolved organic carbon (DOC) from permafrost due to arctic coastal erosion. 4th European Conference on Permafrost, Évora, Portugal, 18-21 June 2014. **(talk)**

14. Fritz, M., Wegener, C., Forest, A., Findlay, H., Gibson, G., Kedra, M., Majaneva, S., Morata, N., Nikolopoulos, A., O'Regan, M., Pavlov, A., Peeken, I., Sampei, M. and Werner, K. (2014): Arctic in Rapid Transition (ART): A network to study the spatial and temporal changes of biogeochemical cycling and ecological functions in the Arctic marine and coastal permafrost realm. 4th European Conference on Permafrost, Évora, Portugal, 18-21 June 2014.
15. Fritz, M., Herzsuh, U., Pollard, W. H. and Lantuit, H. (2013): Permafrost and climate development in the northern Yukon since the LGM – East Beringia vs. Laurentide Ice. PAGES 2nd Young Scientists Meeting, Goa, India, 11-12 February 2013.
16. Fritz, M., Couture, N. J. and Lantuit, H. (2013): Erosion of Arctic permafrost coasts and mobilization of dissolved organic carbon (DOC) from ground ice. 4th PAGES Open Science Meeting. The Past: A Compass for Future Earth, Goa, India, 13-16 February 2013. **(talk)**
17. Fritz, M. and Morgenstern, A. (2013): Das Permafrost Young Researchers Network (PYRN): Perspektiven im AK Permafrost, bei der EUCOP4 und während der ICOP 2016. Arbeitskreis Permafrost, Salzburg, Austria, 24-26 October 2013.
18. Fritz, M., Lantuit, H., Schwamborn, G., Pollard, W. and Hubberten, H. W. (2012): Laurentide Ice vs. Beringia: Coastal permafrost landscape development in the southern Beaufort Sea area. IODP-ICDP workshop; Co-ordinated Scientific Drilling in the Beaufort Sea: Addressing past, present and future changes in Arctic terrestrial and marine systems, Kananaskis, Alberta, Canada, 12-15 February 2012.
19. Fritz, M., Wetterich, S., Schirrmeister, L., Meyer, H., Lantuit, H. and Pollard, W. H. (2012): Coastal permafrost landscape development in the northern Yukon – East Beringia vs. Laurentide Ice. From Knowledge to Action. IPY 2012 Conference, Montreal, Canada, 22-27 April 2012. **(talk)**
20. Fritz, M., Herzsuh, U., Wetterich, S., Pollard, W. H. and Lantuit, H. (2012): 16,000 years of climate and environmental change from east Beringia (Northern Yukon Territory, Canada). From Knowledge to Action. IPY 2012 Conference, Montreal, Canada, 22-27 April 2012. **(talk)**
21. Fritz, M., Lantuit, H., Meyer, H., Opel, T., Couture, N. and Pollard, W. H. (2012): Dissolved Organic Carbon (DOC) in Ground Ice: Is It Significant? Tenth International Conference on Permafrost, Salekhard, Russia, 25-29 June 2012. **(talk)**
22. Fritz, M., Herzsuh, U., Wetterich, S., Lantuit, H., De Pascale, G., Pollard, W. H. and Schirrmeister, L. (2012): Late glacial and Holocene vegetation and climate history from easternmost Beringia (northern Yukon Territory, Canada). ArcticNet Annual Scientific Meeting (ASM 2012), Vancouver, Canada, 10-14 December 2012. **(talk)**
23. Fritz, M., Schirrmeister, L., Meyer, H., Lantuit, H., Couture, N. J. and Pollard, W. H. (2011): Permafrost records from the easternmost edge of Beringia (Yukon Coast, Canada). XVIII. INQUA Congress, 21-27 July 2011, Bern, Switzerland. **(talk)**
24. Fritz, M., Lantuit, H., Couture, N. J. and Pollard, W. H. (2010): Dissolved organic carbon (DOC) from massive ground ice along the Yukon coast: Why does it matter? ArcticNet Annual Scientific Meeting (ASM 2010), Ottawa, Canada, 14-17 December 2010. **(talk)**
25. Fritz, M., Schirrmeister, L., Meyer, H., Lantuit, H., Couture, N. and Pollard, W. (2010): Towards a paleoenvironmental reconstruction from permafrost deposits in the western Canadian Arctic, IPY Oslo Science Conference, 8-12 June 2010, Oslo, Norway. **(talk)**
26. Fritz, M., Wetterich, S., Meyer, H., Schirrmeister, L., Lantuit, H., Couture, N.J. and Pollard, W. H. (2010): The nature and origin of massive ground ice on Herschel Island (Western Canadian Arctic) deduced from stable isotope and hydrochemical investigations, Third European Conference on Permafrost: Thermal state of frozen ground in a changing climate during the IPY; 13-17 June 2010, Svalbard, Norway. **(talk)**

27. Fritz, M., Schirrmeister, L., Meyer, H., Lantuit, H., Couture, N. J. and Pollard, W. H. (2010): Notes from a small island in the western Canadian Arctic. AWI PhD Days, 25-27 May 2010, Potsdam, Germany.
28. Fritz, M. (2010): Permafrost on a warming planet. 3. Interdisziplinäres Doktorandensymposium, Potsdam University, 14 October 2010, Potsdam, Germany. **(talk)**
29. Fritz, M., Meyer, H., Schirrmeister, L., Lantuit, H., Couture, N. and Pollard, W. H. (2009): How ground ice studies contribute to paleoenvironmental reconstructions at the easternmost edge of Beringia (Herschel Island, western Canadian Arctic). Arctic Science Summit Week 2009, 23-28 March 2009, Bergen, Norway. **(talk)**
30. Fritz, M., Meyer, H., Schirrmeister, L., Lantuit, H., Couture, N. J. and Pollard, W. H. (2009): Stable isotope and hydrochemical signatures of massive ground ice on Herschel Island (Western Canadian Arctic). ArcticNet sixth Annual Scientific Meeting (ASM2009), 8-11 December, Victoria, Canada. **(talk)**
31. Fritz, M. (2009): Arbeits- und Kooperationsmöglichkeiten in der kanadischen Arktis., Arbeitskreistreffen Permafrost, 5-6 November 2009, Kloster Bronnbach, Germany. **(talk)**
32. Fritz, M., Meyer, H., Schirrmeister, L., Lantuit, H., Couture, N. and Pollard, W. (2008): Ground ice studies on Herschel Island, in the western Canadian Arctic: A useful paleoenvironmental proxy tool. Arctic Change Conference, 9-12 December, Quebec City, Canada. **(talk)**
33. Fritz, M., Meyer, H., Schirrmeister, L., Lantuit, H., Couture, N. and Pollard, W. H. (2008): Permafrost and Periglacial Processes at the easternmost edge of Beringia in the western Canadian Arctic. Arctic Change Conference, 9-12 December 2008, Quebec City, Canada.
34. Fritz, M., Schirrmeister, L., Meyer, H., Lantuit, H., Couture, N. and Pollard, W. (2008): Notes from a small island in the western Canadian Arctic; a joint approach using sedimentary and stable isotope records gives insights into postglacial permafrost history. Internationale Polartagung, 10-14 March 2008, Münster, Germany.

OTHER

1. Wagner, B., Bennike, O., Berg, S., **Fritz, M.**, Klatt, O., Klug, M., Muhle, K., Ortlepp, S., Vogel, H., White, D. **2008**. Late Quaternary environmental history of the Rauer Group, Prydz Bay region, as deduced from lake and marine basin sediments. In: Hubberten, H.-W. (ed.) The expedition of the research vessel "Polarstern" to the Antarctic in 2007 (ANT-XXIII/9). **Reports on Polar and Marine Research** 583: 80-90.
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