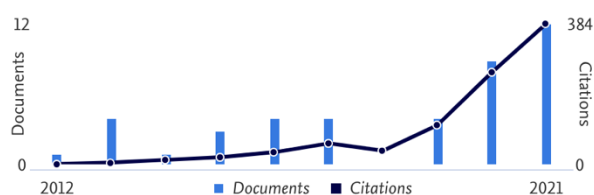


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**Date of Birth:** November 1979  
**Nationality:** German

Document & citation trends



<b>Productivity</b> (09/2022)	Google Scholar	Web of Science ID D-2419-2011	Scopus
Citations	2116	1351	1332
h-index	21	18	18
Articles	159	51	50

## Current positions and responsibilities

<b>Head of focus group “Arctic Lake System Dynamics”</b> Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Section: Polar Terrestrial Environmental Systems, Scientist position (postdoctoral researcher)	since 2018
<b>HEIBRiDS Program Committee</b> - Helmholtz Einstein International Berlin Research School in Data Science	since 2018
<b>GTN-P Advisory Board</b> - Global Terrestrial Network for Permafrost	since 2018

## Higher education

<b>Doctoral degree in Geoscience/Palaeoecology (Dr. rer. nat.)</b> funded by POLMAR scholarship. Hosted at Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research and University of Potsdam. Thesis: <i>Holocene environmental variability inferred from lake diatoms and sediment geochemistry in northeastern Siberia, Russia</i> . Rating: <i>Magna cum laude</i> (apl. Prof. B. Diekmann)	Oct 2012
<b>Diploma Geology (Dipl. Geol.) Geology and Palaeontology</b> at Freie Universität Berlin. Thesis: <i>Facies development of the Upper Jurassic of Gräfenberg, SW Germany, Middle Franconian Alb</i> . Rating: <i>1.0 with honors</i> (Prof. Dr. H. Keupp)	Oct 2008

## **Prediploma Geology and Palaeontology**

Apr 2004

Freie Universität Berlin. *Rating: 1.4* (Priv.-Doz. Dr. M. Schudack)

## **Honors and awards received**

2016 - PYRN-IPA Award for Outstanding Poster Presentation (ICOP2016)

2016 - ICSU International Council for Science: WDS Data Stewardship Award 2016

2009 - POLMAR scholarship (own PhD project)

2008 - Honors degree diploma in „Geologie-Paläontologie“ at Freie Universität Berlin

## **Professional work experience**

**Leader ESKP Project PAST PERMAFROST.** Combining observations and paleo proxy data towards risk assessment of climate change impacts 2017-2021

**Postdoc in PALMOD.** BMBF German Palaeoclimate Modelling Initiative, Compiling palaeo proxy data from last glacial to Anthropocene (focus on diatoms and sediment geochemistry) for development and validation of global paleoclimate models. (apl. Prof. B. Diekmann) 6/2016-4/2018

**Co-lead of INTERACT WP4 data forum.** EU Project on sustained management towards interoperability of international research stations. (Dr. M. Johansson, Lund University, Sweden; Dr. O. Godoy, Meteorological Institute Oslo, Norway) 2016–2018

**Director of the Global Terrestrial Network for Permafrost** (gtnp.org). Established community network for data sets and high-impact Nature publication on global warming. Fund-raising and coordination of the 2<sup>nd</sup> GTN-P National Correspondents Meeting (Canada 2015), and at ICOP (Germany 2016). 2015–2018

**External curator** of the PANGAEA Database - Data Publisher for Earth & Environmental Science 2016–2017

**Data Scientist** in the 7<sup>th</sup> EU Framework Programme PAGE21 - Changing Permafrost in the Arctic and its Global Effects in the 21st Century (Prof. Dr. H. Lantuit) 2013–2015

**Visiting Student in London at UCL,** Methods for diatom analysis in freshwater paleoecology Feb 2010

**Laboratory assistant,** preparation techniques for pollen, Freie Universität Berlin (Dr. S. Müller) 2008

**Institute Council** Freie Universität Berlin, Geo Campus Lankwitz, student representative 2005–2008

**Tutor** in Earth History and Palaeontology, Freie Universität Berlin (Prof. Dr. H. Keupp, Priv.-Doz. Dr. M. Schudack). 2004–2008

## **Expeditions and fieldwork experience**

**Expedition Alaska Seward 2022**

Aug/Sep 2022

Lead of UWITEC Hybrid Niederreiter 90mm piston coring team. Parametric sub-bottom profiling (SES-2000). Retrieving sediment cores from Salmon Lake and Glacial Lake. Lead Dr. H. Meyer	
<b>Expedition Yakutia 2021</b>	Aug 2021
Lead of UWITEC Hybrid Niederreiter 90mm piston coring team. Parametric sub-bottom profiling (SES-2000). Retrieving sediment cores from Lakes Ulu and Saysary. Lead Prof. Dr. U. Herzs Schuh	
<b>Fieldwork Groß Glienicker Lake 2020</b>	June 2020
First use of UWITEC Hybrid Niederreiter 90mm piston coring system. Drilling training and retrieval of long sediment cores	
<b>Expedition Khamra 2020</b>	March 2020
Expedition leader, long sediment core retrieval using 60mm UWITEC piston coring system from ice-covered lake	
<b>Expedition Magadan 2019</b>	June 2019
Expedition leader, seismic transects (SES-2000) and long sediment core retrieval using 60mm UWITEC piston coring system from platform on water.	
<b>Expedition Chukotka 2018</b>	July 2018
Head of Lake group, seismic transects (SES-2000) and long sediment core retrieval using 60mm UWITEC piston coring system from platform on water. Lead Prof. Dr. U Herzs Schuh	
<b>Expedition Antarctica 2017/18</b>	Dec–Jan 2017/18
Head of ice hole coring group, Project: Sub-EIS-Obs, East-Antarctica, Neumayer III station, retrieving marine sediment cores underneath 250 m ice shelf with UWITEC special ice hole corer. Lead Dr. G Kuhn.	
<b>Expedition Bykovsky spring 2017, winter</b>	April 2017
Leader of WP3 Holocene environmental variability, head of UWITEC piston coring group, Siberia, sampling lake and lagoon sites. Lead Prof. Dr. G Grosse, Dr. J Strauss	
<b>Expedition Yakutia 2016, summer</b>	Aug–Sep 2016
Leader, paleoecological investigations and sediment core retrieval (summer conditions, Russian peat corer), Siberia, helicopter expedition	
<b>Expedition Yukon Coast 2016, spring</b>	Apr–May 2016
Marine paleoenvironment, Herschel basin, sediment core retrieval (ice conditions) using 60mm UWITEC piston coring system, Canada Yukon coast, Lead Dr. M Fritz.	
<b>RV Polarstern 2014</b>	Oct–Nov 2014
Atlantic transit cruise on AWI Polarstern for parasound training (PS 88.1) Lead Dr. G. Kuhn	
<b>Expedition Yakutia 2013, spring</b>	Mar–Apr 2013
Co-Leader, paleolimnology and core retrieval (ice conditions), Siberia (Bolshoe Toko), Lead apl. Prof. Dr. Diekmann.	

**Expedition Lena 2010, summer**

Aug–Sep 2010

Geological and ecological studies, sediment core retrieval in Siberian lakes (summer conditions) using 60mm UWITEC piston coring system, Lead apl. Prof. Dr. Diekmann.

**RV Heincke 2010**

Apr 2010

Marine field work training cruise in the North Sea, Helgoland (HE324), Lead Prof. Dr. J Bijma.

**Expedition Lena 2009, summer**

Jul–Aug 2009

Helicopter transect to 14 lakes along the northern Lena River and Delta. Ecological studies and sediment core retrieval (summer conditions), Lead Prof. Dr. U. Herzschuh

**Field work and geological mapping for diploma thesis**

2007-2008

Paleontological field work on Jurassic (Dogger and Malm) environmental reconstruction at Gräfenberg (Southern Germany) Lead Prof. H. Keupp.

**Supervisor of PhD projects**

(as first supervisor **marked by left yellow bar**)

Since 2021 Co-supervisor of Amelie Stieg: Hydroclimate Extreme Events and their impact on biodiversity in natural and human-influenced boreal Lake Systems.

Since 2020 Co-supervisor of Philip Meister: Comparison of lake sediment  $d^{18}O$  proxy data to isotope-enabled PALMOD model outputs.

Since 2019 Co-supervisor of Lara Hughes-Allen: Greenhouse gas emissions in relationship to thermokarst and lake variability in Siberia. (GEOPS, MOPGA)

Since 2018 First supervisor of Stuart Vyse: Sediment-geochemical feedbacks to climate and vegetation changes at glacial lakes in Arctic Siberia.

Since 2018 First supervisor of Gregor Pfalz: The spatiotemporal influence of environmental forcing to Arctic lake system dynamics: a data science approach

Between 2014-2015 Voluntary co-supervisor of Rong Wang (2015): Late Quaternary climate and environmental variability inferred from terrigenous sediment records in China and the North Pacific/Bering Sea. Universität Potsdam and Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung

**Supervisor of student theses**

(as official referee **marked by left yellow bar**)

Bachelor thesis Adrian Schnitt (in prep.): Geochemical fingerprint of human development in Berlin-Brandenburg inferred from Groß-Glienicker See sediments. University of Potsdam and AWI.

Master thesis Amy Forster (in prep.): Palaeolimnological development inferred from diatoms at Lake Raachuagytygyn, Siberian Arctic. University of Potsdam and AWI.

Bachelor thesis Nora Ritschel (2022): Late Quaternary paleoenvironmental development and carbon dynamics of Lake Nutenvut, Chukotka, Russia, Free University Berlin and AWI.

- Bachelor thesis Alexander Rudolf (2021) Relationship between lake systems, catchment morphology and sedimentation rates of lakes in Russia. University of Potsdam and AWI.
- Bachelor thesis Maximilian Rometsch (2021) Zusammenhänge zwischen Klima, Vegetation und Sedimentationsraten in nördlichen Seen Russlands. University of Potsdam and AWI.
- Bachelor thesis Tim Kröger (2020): Connecting spatial and temporal variabilities of lake sediment data from Bolshoe Toko, Siberia. Free University Berlin and AWI
- Master thesis Miriam Sens (2019): Impact of marine flooding to thermokarst lake genesis on Bykovsky, Arctic Siberia. Free University Berlin and AWI.
- Bachelor thesis J. Brzoska (2019): Inwieweit spiegelt die Produktivität und Mineralogie des Lake Illirney (Tschukotka, Russische Arktis) die Klimaveränderungen des Spätquartärs wider? Free University Berlin and AWI.
- Bachelor thesis Alexander Gessner (2019): High resolution variability of organic carbon in two postglacial lake sediment archives from Bykovsky peninsula, Northern Siberia (Russia). Free University Berlin and AWI.
- Bachelor thesis Kim Funck (2019): Postglacial environmental and climatological variability inferred from diatoms at Lake Bolshoe Toko, SE Yakutia, Russia. Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research & Humboldt Universität zu Berlin.
- Master thesis Vanessa Warmke (2018) Postglacial variability of sedimentary and geochemical parameters in Lake Bolshoe Toko. Free University Berlin and AWI.
- Master thesis Almut Dressler (2016): The influence of recent climate change on spatial temporal diatom variability in Lake Bolshoe Toko, South Eastern Yakutia, Russia. University Potsdam and AWI.
- Master thesis Laura Weniger (2016): Holocene Climate and environmental changes inferred from a subfossil chironomid record in a small lake near Bolshoe Toko, southeastern Yakutia, Russia. Free University Berlin and AWI
- Master thesis Thomas Loeffler (2016): Late Quaternary Depositional Environment of Lake Bolshoe Toko, Yakutia, Russia. Free University Berlin and AWI
- Bachelor thesis Till Hainbach (2016): Variability of the Isotopic and Hydrochemical Composition of Lake Bol'shoe Toko, SE Yakutia, Russia, University Potsdam and AWI.
- Master thesis A. Hansche (2014): Spätpleistozäne-Holozäne Umweltentwicklung am Kyutyunda-See: Hinweise aus Diatomeen und Sedimentologie. University Potsdam and AWI.
- Diploma thesis A. Roth (2013): Diatomeen-Vergesellschaftungen in Sedimenten des Zwei-Jurten-Sees, Kamtschatka, und ihre Aussage über Veränderungen regionaler Umweltbedingungen im Verlauf des Holozäns. Humboldt University Berlin and AWI.
- Master thesis P. Schleusner (2013): Late Quaternary dynamics of an Arctic thermokarst landscape indicated by deposits at Lake El'gene-Kyuele (Northern Siberia). University Leipzig and AWI.
- Bachelor thesis J. Thom (2013): Welche paläolimnologischen Hinweise liefern die chemischen Parameter C, N und  $\delta^{13}C$  der organischen Fraktion im Sedimentkern PG2023 des Kyutyunda-Sees? University Potsdam and AWI.

Diploma thesis C. Funk (2012): Sedimentäre Ablagerungsprozesse im holozänen Thermokarstsee El'gene Kyuele in der sibirischen Arktis, Russland. Free University Berlin and AWI.

Bachelor thesis L. Pollozek (2011): Fernerkundliche Untersuchungen zur zeitlichen Variabilität von Permafrostformen im nordsibirischen Raum auf Basis von Landsat-Daten. Free University Berlin and AWI.

## Peer-reviewed scientific publications

(as first/senior/corresponding author marked by left yellow bar)

**Biskaborn, B.K.** et al. (in prep.): Human impact on water quality of Groß-Glienicker See over the Holocene, Berlin-Brandenburg, Germany. Planned for submission to 'Journal of Water and Environmental Sciences'

**Biskaborn, B.K.**, Forster A., Pfalz G., Pestryakova LA., Stoof-Leichsenring K., Strauss J., Kröger T., Herzsuh U. (submitted 2022): Diatom responses and geochemical feedbacks to environmental changes at Lake Rauchagytygn (Far East Russian Arctic)

Diekmann, B., Stackebrandt, W., Weiße, R., Böse, M., Rothe, U., **Biskaborn, B.**, Brauer, A., 2022. Quaternary geology and landforms around Potsdam by bike. **DEUQUA Special Publications** 4, 5-17.

Gudmundsson, L., Kirchner, J., Gädeke, A., Noetzli, J., **Biskaborn, B.K.**, 2022. Attributing observed permafrost warming in the northern hemisphere to anthropogenic climate change. **Environmental Research Letters**.

Pfalz, G., Diekmann, B., Freytag, J.C., Strykh, L., Subetto, D.A., and **Biskaborn, B.K.** (2022). Improving age–depth relationships by using the LANDO (“Linked age and depth modeling”) model ensemble. **Geochronology** 4, 269-295.

Lappalainen, H.K., Petäjä, T., Vihma, T., Räisänen, J., Baklanov, A., Chalov, S., Esau, I., Ezhova, E., Leppäranta, M., Pozdnyakov, D., Pumpanen, J., Andreae, M.O., Arshinov, M., Asmi, E., Bai, J., Bashmachnikov, I., Belan, B., Bianchi, F., **Biskaborn, B.**, Boy, M., Bäck, J., Cheng, B., Chubarova, N., Duplissy, J., Dyukarev, E., Eleftheriadis, K., Forsius, M., Heimann, M., Juhola, S., Konovalov, V., Konovalov, I., Konstantinov, P., Köster, K., Lapshina, E., Lintunen, A., Mahura, A., Makkonen, R., Malkhazova, S., Mammarella, I., Mammola, S., Mazon, S.B., Meinander, O., Mikhailov, E., Miles, V., Myslenkov, S., Orlov, D., Paris, J.D., Pirazzini, R., Popovicheva, O., Pulliainen, J., Rautiainen, K., Sachs, T., Shevchenko, V., Skorokhod, A., Stohl, A., Suhonen, E., Thomson, E.S., Tsidilina, M., Tynkkynen, V.P., Uotila, P., Virkkula, A., Voropay, N., Wolf, T., Yasunaka, S., Zhang, J., Qiu, Y., Ding, A., Guo, H., Bondur, V., Kasimov, N., Zilitinkevich, S., Kerminen, V.M., and Kulmala, M. (2022). Overview: Recent advances in the understanding of the northern Eurasian environments and of the urban air quality in China—a Pan-Eurasian Experiment (PEEX) programme perspective. **Atmospheric Chemistry and Physics** 22, 4413-4469.

Barnes, D.K.A., Kuhn, G., Hillenbrand, C.D., Gromig, R., Koglin, N., **Biskaborn, B.K.**, Frinault, B.a.V., Klages, J.P., and Gutt, J. (2021). Richness, growth, and persistence of life under an Antarctic ice shelf. **Current Biology** 31, R1566-R1567.

Hughes-Allen, L., Bouchard, F., Hatté, C., Meyer, H., Pestryakova, L.A., Diekmann, B., Subetto, D.A., **Biskaborn, B.K.**, 2021. 14,000-year Carbon Accumulation



Dynamics in a Siberian Lake Reveal Catchment and Lake Productivity Changes. **Frontiers in Earth Science** 9.

Wang, R., Kuhn, G., Gong, X., **Biskaborn, B.K.**, Gersonde, R., Lembke-Jene, L., Lohmann, G., Tiedemann, R., Diekmann, B., 2021. Deglacial Land-Ocean Linkages at the Alaskan Continental Margin in the Bering Sea. **Frontiers in Earth Science** 9.

Vyse, S.A., Herzsuh, U., Pfalz, G., Pestryakova, L.A., Diekmann, B., Nowaczyk, N., and **Biskaborn, B.K.** (2021). Sediment and carbon accumulation in a glacial lake in Chukotka (Arctic Siberia) during the Late Pleistocene and Holocene: combining hydroacoustic profiling and down-core analyses. **Biogeosciences** 18, 4791-4816.

**Biskaborn, B.K.**, Nazarova, L., Kröger, T., Pestryakova, L.A., Strykh, L., Pfalz, G., Herzsuh, U., and Diekmann, B. (2021). Late Quaternary Climate Reconstruction and Lead-Lag Relationships of Biotic and Sediment-Geochemical Indicators at Lake Bolshoe Toko, Siberia. **Frontiers in Earth Science** 9.

Jenrich, M., Angelopoulos, M., Grosse, G., Overduin, P.P., Schirrmeister, L., Nitze, I., **Biskaborn, B.K.**, Liebner, S., Grigoriev, M., Murray, A., Jongejans, L.L., and Strauss, J. (2021). Thermokarst Lagoons: A Core-Based Assessment of Depositional Characteristics and an Estimate of Carbon Pools on the Bykovsky Peninsula. **Frontiers in Earth Science** 9.

Nazarova, L.B., Razjigaeva, N.G., Golovatyuk, L.V., **Biskaborn, B.K.**, Grebennikova, T.A., Ganzey, L.A., Mokhova, L.M., and Diekmann, B. (2021). Reconstruction of Environmental Conditions in the Eastern Part of Primorsky Krai (Russian Far East) in the Late Holocene. **Contemporary Problems of Ecology** 14, 218-230.

Nazarova, L., Razjigaeva, N.G., Ganzey, L.A., Makarova, T.R., Lyashevskaya, M.S., **Biskaborn, B.K.**, Hoelzmann, P., Golovatyuk, L.V., Diekmann, B., 2021. The middle to Late Holocene environment on the Iturup Island (Kurils, North Western Pacific). **Quat. Int.** <https://doi.org/10.1016/j.quaint.2021.05.003>

**Biskaborn, B.K.**, Narancic, B., Stoof-Leichsenring, K.R., Pestryakova, L.A., Appleby, P.G., Piliposian, G.T., Diekmann, B., (2021). Effects of climate change and industrialization on Lake Bolshoe Toko, eastern Siberia. **J. Paleolimnol.** doi: 10.1007/s10933-021-00175-z

Glückler, R., Herzsuh, U., Kruse, S., Andreev, A., Vyse, S.A., Winkler, B., **Biskaborn, B.K.**, Pestryakova, L., and Dietze, E. (2021). Wildfire history of the boreal forest of south-western Yakutia (Siberia) over the last two millennia documented by a lake-sediment charcoal record. **Biogeosciences** 18, 4185-4209.

Pfalz G, Diekmann B, Freytag JC, **Biskaborn BK** (2021). Harmonizing heterogeneous multi-proxy data from lake systems. **Computers and Geosciences**

Courtin Jérémy, Andrei A. Andreev, Elena Raschke, Sarah Bala, **Boris K. Biskaborn**, Sisi Liu, Heike Zimmermann, Bernhard Diekmann, Kathleen R. Stoof-Leichsenring, Luidmila A. Pestryakova and Ulrike Herzsuh (2021) Vegetation changes in southeastern Siberia during the Late Pleistocene and the Holocene. **Frontiers Ecol. Evol.** doi: 10.3389/fevo.2021.625096

Spangenberg, I., Overduin, P.P., Damm, E., Bussmann, I., Meyer, H., Liebner, S., Angelopoulos, M., **Biskaborn, B.K.**, Grigoriev, M.N., Grosse, G., 2021. Methane pathways in winter ice of a thermokarst lake–lagoon–coastal water transect in north Siberia. **The Cryosphere** 15, 1607-1625.

- Andreev, A.A., Raschke, E., **Biskaborn, B.K.**, Vyse, S.A., Courtin, J., Böhmer, T., Stooß-Leichsenring, K., Kruse, S., Pestryakova, L.A., Herzschuh, U., 2021. Late Pleistocene to Holocene vegetation and climate changes in northwestern Chukotka (Far East Russia) deduced from lakes Ilirney and Rauchuagytgyn pollen records. *Boreas* n/a.
- Kostrova, S.S., **Biskaborn, B.K.**, Pestryakova, L.A., Fernandoy, F., Lenz, M.M., Meyer, H., 2021. Climate and environmental changes of the Lateglacial transition and Holocene in northeastern Siberia: Evidence from diatom oxygen isotopes and assemblage composition at Lake Emanda. *Quaternary Science Reviews*. 259, 106905.
- Vyse, S.A., Herzschuh, U., Andreev, A.A., Pestryakova, L.A., Diekmann, B., Armitage, S.J., **Biskaborn, B.K.**, 2020. Geochemical and sedimentological responses of arctic glacial Lake Ilirney, chukotka (far east Russia) to palaeoenvironmental change since ~51.8 ka BP. *Quaternary Science Reviews* 247, 106607, doi:10.1016/j.quascirev.2020.106607
- Jongejans, L.L., Mangelsdorf, K., Schirrmeister, L., Grigoriev, M.N., Maksimov, G.M., **Biskaborn, B.K.**, Grosse, G., Strauss, J., 2020. n-Alkane Characteristics of Thawed Permafrost Deposits Below a Thermokarst Lake on Bykovsky Peninsula, Northeastern Siberia. *Frontiers in Environmental Science* 8, 10.3389/fenvs.2020.00118.
- Huang, S., Herzschuh, U., Pestryakova, L.A., Zimmermann, H.H., Davydova, P., **Biskaborn, B.K.**, Shevtsova, I., Stooß-Leichsenring, K.R., 2020. Genetic and morphologic determination of diatom community composition in surface sediments from glacial and thermokarst lakes in the Siberian Arctic. *Journal of Paleolimnology*, 10.1007/s10933-020-00133-1.
- Kaufman, D., McKay, N., Routson, C., Erb, M., Davis, B., Heiri, O., Jaccard, S., Tierney, J., Dätwyler, C., Axford, Y., Brussel, T., Cartapanis, O., Chase, B., Dawson, A., de Vernal, A., Engels, S., Jonkers, L., Marsicek, J., Moffa-Sánchez, P., Morrill, C., Orsi, A., Rehfeld, K., Saunders, K., Sommer, P.S., Thomas, E., Tonello, M., Tóth, M., Vachula, R., Andreev, A., Bertrand, S., **Biskaborn, B.**, Bringué, M., Brooks, S., Caniupán, M., Chevalier, M., Cwynar, L., Emile-Geay, J., Fegyveresi, J., Feurdean, A., Finsinger, W., Fortin, M.-C., Foster, L., Fox, M., Gajewski, K., Grosjean, M., Hausmann, S., Heinrichs, M., Holmes, N., Ilyashuk, B., Ilyashuk, E., Juggins, S., Khider, D., Koinig, K., Langdon, P., Larocque-Tobler, I., Li, J., Lotter, A., Luoto, T., Mackay, A., Magyari, E., Malevich, S., Mark, B., Massferro, J., Montade, V., Nazarova, L., Novenko, E., Pařil, P., Pearson, E., Peros, M., Pienitz, R., Plóciennik, M., Porinchu, D., Potito, A., Rees, A., Reinemann, S., Roberts, S., Rolland, N., Salonen, S., Self, A., Seppä, H., Shala, S., St-Jacques, J.-M., Stenni, B., Strykh, L., Tarrats, P., Taylor, K., van den Bos, V., Velle, G., Wahl, E., Walker, I., Wilmshurst, J., Zhang, E., Zhilich, S., 2020. A global database of Holocene paleotemperature records. *Scientific Data* 7, 115, 10.1038/s41597-020-0445-3.
- Stooß-Leichsenring, K.R., Dulias, K., **Biskaborn, B.K.**, Pestryakova, L.A., Herzschuh, U., 2020. Lake-depth related pattern of genetic and morphological diatom diversity in boreal Lake Bolshoe Toko, Eastern Siberia. *PLOS ONE* 15, e0230284, 10.1371/journal.pone.0230284.
- Biskaborn, B.K.**, Nazarova, L., Pestryakova, L.A., Strykh, L., Funck, K., Meyer, H., Chaplugin, B., Vyse, S., Gorodnichev, R., Zakharov, E., Wang, R., Schwamborn, G., Bailey, H.L., Diekmann, B., (2019). Spatial distribution of environmental indicators in surface sediments of Lake Bolshoe Toko, Yakutia, Russia. *Biogeosciences* 16, 4023-4049, 10.5194/bg-16-4023-2019.



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Gong, D., Fan, X., Li, Y., Li, B., Zhang, N., Gromig, R., Smith, E.C., Dummann, W., Berger, S., Eisen, O., Tell, J., **Biskaborn, B.K.**, Koglin, N., Wilhelms, F., Broy, B., Liu, Y., Yang, Y., Li, X., Liu, A., Talalay, P., 2019. Coring of Antarctic Subglacial Sediments. *Journal of Marine Science and Engineering* 7, 194

**Biskaborn, B.K.**, Smith, S.L., Noetzli, J., Matthes, H., Vieira, G., Streletskiy, D.A., Schoeneich, P., Romanovsky, V.E., Lewkowicz, A.G., Abramov, A., Allard, M., Boike, J., Cable, W.L., Christiansen, H.H., Delaloye, R., Diekmann, B., Drozdov, D., Eitzelmüller, B., Grosse, G., Guglielmin, M., Ingeman-Nielsen, T., Isaksen, K., Ishikawa, M., Johansson, M., Johannsson, H., Joo, A., Kaverin, D., Kholodov, A., Konstantinov, P., Kröger, T., Lambiel, C., Lanckman, J.-P., Luo, D., Malkova, G., Meiklejohn, I., Moskalenko, N., Oliva, M., Phillips, M., Ramos, M., Sannel, A.B.K., Sergeev, D., Seybold, C., Skryabin, P., Vasiliev, A., Wu, Q., Yoshikawa, K., Zheleznyak, M., Lantuit, H. (2019): Permafrost is warming at a global scale. *Nature Communications* 10, 264, 10.1038/s41467-018-08240-4.

**Biskaborn B.K.**, Lantuit H. (2018): Knowledge Transfer by the Global Terrestrial Network for Permafrost (GTN-P). In: Building Bridges at the Science-Stakeholder Interface (pp. 73-78). *Springer, Cham*.

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- Biskaborn, B., Funk, C., Herzschuh, U., Bolshiyarov, D., Vakhrameeva, P. and Diekmann, B. (2010): Can XRF scanner data be applied as grain-size proxy? - Clues from north-eastern Siberian arctic lake sediments, SEPM-CES - GV (Sektion Sedimentologie), Sediment2010, 25th Sediment Meeting, Potsdam, Germany, June 25 - 27.
- Biskaborn, B., Funk, C., Herzschuh, U., Bolshiyarov, D., Vakhrameeva, P. and Diekmann, B. (2010): First sediment-geochemical findings from a north-south lake transect in the Siberian Arctic., AWI PhD Days 25 - 27 May 2010, Potsdam, Germany.
- Biskaborn, B., Funk, C., Herzschuh, U., Bolshiyarov, D., Vakhrameeva, P., Subetto, D. and Diekmann, B. (2010): Paleolimnological investigations of selected lakes along a north-south transect from the Lena delta (Laptev Sea region) to its hinterland, Joint Russian-German Workshop on Research in the Laptev Sea Region, November 8-11, 2010, St. Petersburg, Russia.
- Diekmann, B., Andreev, A., Biskaborn, B., Herzschuh, U., Hubberten, H. W., Meyer, H., Müller, S., Nazarova, L., Pestryakova, L., Popp, S., Subetto, D., Tarasov, P. E. and Werner, K. (2010): Late Pleistocene-Holocene climate and environment in the periglacial lake districts of eastern Siberia, International Polar Year, Oslo Science Conference, Oslo, June 8-12.
- Savelieva, L., Bolshiyarov, D., Vakhrameeva, P., Titova, D., Herzschuh, U., Biskaborn,

B. and Funk, C. (2010): Holocene paleoenvironmental changes of Laptev Sea region -evidence from pollen records of the El'gene-Kyuele lake, Joint Russian-German Workshop on Research in the Laptev Sea Region, November 8-11, 2010, St. Petersburg, Russia.

Subetto, D., Diekmann, B., Biskaborn, B., Vakhrameeva, P. and Heinecke, L. (2010): Paleolimnological expedition Lena 2010 - Field results, Joint Russian-German Workshop on Research in the Laptev Sea Region, November 8-11, 2010, St. Petersburg, Russia.

Diekmann, B., Andreev, A., Biskaborn, B., Chaplignin, B., Dirksen, O., Dirksen, V., Herzsuh, U., Hubberten, H. W., Hoff, U., Meyer, H., Müller, S., Nazarova, L., Pestryakova, L., Popp, S., Subetto, D. and Tarasov, P. E. (2009): Late Quaternary Lake Records of Northeastern Eurasia, 11th International Paleolimnology Symposium, December 14-18, 2009, Guadalajara, Mexico, Abstract Volume: p. 46.

## Public talks

Biskaborn BK 2019. Lange Nacht der Wissenschaften 2019.

Biskaborn BK 2017. Expedition in die Arktis und Antarktis - Einblicke in Abenteuer und Forschung. Lange Nacht der Wissenschaften 2018 (Vortrag)

Biskaborn BK 2017. Expedition in die Arktis und Antarktis - Einblicke in Abenteuer und Forschung. Lange Nacht der Wissenschaften 2017 (Vortrag)

Biskaborn BK 2017. Die globale Erwärmung und ihre Folgen. Lange Nacht der Wissenschaften 2017 (Vortrag)

Biskaborn BK 2016. Erderwärmung im Permafrost - warum und wie messen wir das? Lange Nacht der Wissenschaften 2017 (Vortrag)

Biskaborn BK 2014. Polarforschung am Alfred Wegener Institut - Einblicke für Schülerinnen und Schüler. Industrie- und Handelskammer (IHK) Potsdam.

Biskaborn BK 2013. Forschung und Klimawandel in Sibirien - Arktische Probleme. Vortrag am Curie-Tag. Marie Curie Gymnasium Ludwigsfelde.

## University teaching experience

(External lecturer/docent at University of Potsdam)

(Bachelor) Einführung in die Quartärgeologie - 4 SWS - Diekmann, **Biskaborn** WiSe 2021/2022

(Bachelor) Einführung in die Quartärgeologie - 4 SWS - Diekmann, **Biskaborn** WiSe 2020/2021

(Master) Permafrostlandschaften - 4 SWS - Strauss, Lenz, **Biskaborn**, Overduin, Angelopoulos, Wetterich, Jongejans WiSe 2020/2021

(Bachelor) Einführung in die Quartärgeologie - 4 SWS - Diekmann, **Biskaborn** WiSe 2019/2020

(Master) Permafrostlandschaften - 4 SWS - Strauss, Lenz, **Biskaborn**, Overduin, Angelopoulos, Wetterich, Jongejans WiSe 2019/2020

BScW14 Einführung in die Paläoklimatologie (Vorlesung) - Diekmann, Herzsuh, **Biskaborn** SoSe 2019

BScW14 Einführung in die Paläoklimatologie (Seminar) -Herzsuh, Diekmann, **Biskaborn** SoSe 2019

MGEW15 Permafrostlandschaften - 4 SWS - Strauss, Lenz, <b>Biskaborn</b> , Overduin, Angelopoulos, Wetterich, Jongejans	WiSe 2018/2019
MGEW13 Paläoklimadynamik - Diekmann, <b>Biskaborn</b> , Brauer, Herzsuh	WiSe 2018/2019
MGEW15 Permafrostlandschaften - 4 SWS - Strauss, Große, Lenz, Overduin, <b>Biskaborn</b> , Günther, Angelopoulos	WiSe 2017/2018
MGEW13 Paläoklimadynamik - Brauer, Herzsuh, Trauth, Diekmann (Vertretung <b>Biskaborn</b> )	WiSe 2016/2017
Between 2010 and 2016: several 'single' substitutes for lecturers (Diekmann/Herzsuh) at University of Potsdam (as PhD student and postdoc, teaching activity not listed in VVZ, but certified)	Since 2012
<b>Tutor</b> with active teaching/repetition of Earth History and Palaeontology at Freie Universität Berlin	2004-2008

## Grammar school teaching experience

(Oberschule, Sekundarstufe 2)

Project based teacher for 7th class biology at Voltaireschule Potsdam, 1 week block course (full days)	Okt. 2014
Highschool Teacher (Vertretungslehrer Klassen 7-10) for Chemistry and Biology in Berlin (Schule am Staakener Kleeblatt), 2 months (full time)	5.5.-4.7.2014
Projektunterricht Marie-Curie Gymnasium, Ludwigsfelde: Forschung und Klimawandel in Sibirien	7.11.2013

## Manuscripts in preparation (data and draft available)

### Planned journal

Von Hippel et al.: Fungi diversity and function during tundra-forest transitions from sedimentary ancient DNA meta-barcoding	Molecular Ecology
( <b>Senior paper</b> ) Pfalz et al.: Improving age-depth correlations by using the LANDO model ensemble	Geochronology
<b>Biskaborn</b> et al.: Freshwater diatom alpha diversity trajectories are largely independent from air temperature development, but determine organic carbon sequestration	<i>t.b.d.</i>
<b>Biskaborn</b> Late quaternary diatom development in Lake Rauchaugytgyn, Chukotka (Russian Arctic)	<i>e.g. Quat. Sci. Reviews</i>
Schulte et al.: Dynamics of larch species ranges in Siberia since the Last Glacial captured from sedimentary ancient DNA	Nature Ecology and Evolution
Meister et al.: Lacustrine oxygen isotope records from biogenic silica – a global compilation and review	ESSD

## Research mentioned in public news (selection)

Zeit Online (Germany, 16 January 2019): Permafrost erwärmt sich weltweit.

Spiegel Online (Germany, 16 January 2019): Studie zu Permafrostböden: Der Klimawandel lässt Tausende Jahre altes Eis schmelzen

Focus (16 January 2019): Forscher beobachten weltweit Temperaturanstieg in Permafrostböden

Washington Post (Washington, 16 January 2019): World's permafrost gets warmer.

Nature – the week in science (online 11-17 September 2015): Permafrost tracked

Der Standard (Austria, 25. September 2015): Die unbekannte Kühltruhe der Erde

## **Grants received**

2018 - HEIBRiDS PhD Grant (Helmholtz funding for data science position), recipient: Gregor Pfalz

2017 - ESKP PAST PERMAFROST: 80,000 € (PhD position Stuart Vyse)

2016 - INTERACT II: 145,560 € for Data Forum work package

2016 - IPA: 12,000 € for GTN-P Data Management System

2016 - IASC TWG: 5,000 € for GTN-P Thermal State of Permafrost Report data processing

2015 - IASC TWG & CWG: 10,000 € for GTN-P NC Meeting

2014 - ESKP Permafrost: 68,000 € for Postdoc

2009 - POLMAR scholarship: 50,000 € for PhD

## **Reviewer for journals**

Nature Geoscience, Nature Communications, Quaternary Science Reviews, Journal of Paleolimnology, Permafrost and Periglacial Processes, Earth System Science Data, The Holocene, Boreas, Quaternary International, Frontiers in Earth Science, Anthropocene

## **Reviewer for funding agencies**

European Commission (ERC), Czech Science Foundation (GACR)

## **Membership in charities (regular monetary contribution)**

Since 2017: **BUND**, Friends of the Earth - Germany

Since 2012: **Deutsche Gesellschaft für Polarforschung**

Since 2009: **Greenpeace**

## **Other interests and licenses**

Outdoor technical climbing (member in Deutscher Alpenverein)

Open water diving licence

Horse riding (Vielseitigkeit, Reiterpass)

Sportbootführerschein Binnen

International driving license (7.5t)

Shooting (Bear watch license for expeditions) and first aid (Ersthelfer-Bescheinigung)