

Name	Christian Knoblauch
Position	Senior Scientist
Affiliation	Hamburg University
Higher education	<ul style="list-style-type: none"> • 1999 PhD degree, Bremen University • 1994 Diploma, Hamburg University
Academic career	<ul style="list-style-type: none"> • since 2007 Member of the Excellence Cluster CliSAP – Integrated Climate Analysis and Prediction • since 2003 Senior Scientist, Hamburg University • 2000-2003 Scientific Assistant in the Board of Directors of the Alfred Wegener Institute for Polar and Marine Research, Bremerhaven • 1999-2000 PostDoc at the Max Planck institute for Marine Microbiology, Bremen
Teaching activities	<p>Universität Hamburg:</p> <p>Master program “Integrated Climate System Sciences”, (lecture on “Soil Water and Vegetation Processes and their coupling to the atmosphere”, lab course on “Stable Isotope Application in Terrestrial Ecosystems”)</p> <p>Master program “Geoscience”, (lecture on “Element Cycles in terrestrial Systems”, lab course on “Methods in Soil Analysis”)</p> <p>Supervision of Bachelor, Master and PhD-students</p>
Research and development projects during the past 5 years	<ul style="list-style-type: none"> • 2013 – 2015 Estimation of current-season carbon fluxes in the rhizosphere of a tundra wetland soil (Clisap, DFG) • 2014-2017 Characteristics and Degradability of Organic Matter in Thermokarst affected landscape of the Lena River Delta (Clisap, DFG) • 2013-2016 Carboperm - Formation, turnover and release of carbon in Siberian permafrost landscapes (BMBF) • 2017-2020 KoPf - Carbon in Permafrost (BMBF)
Activities in scientific organizations and associations during the past 5 years	Reviewer in international Journals (e.g. Environmental Microbiology, Soil Biology and Biochemistry, Geophysical Research Letters, Nature Climate Change)
Significant publications during the past 5 years	<p>Selected publications from overall 35</p> <p>Knoblauch, C., Beer, C., Sosnin, A., Wagner, D., Pfeiffer, E.-M., 2013. Predicting long-term carbon mineralization and trace gas production from thawing permafrost of Northeast Siberia. <i>Global Change Biology</i> 19, 1160-1172.</p> <p>Schädel, C., Schuur, E.A.G., Bracho, R., Elberling, B., Knoblauch, C., Lee, H.,</p>

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	<p>Luo, Y., Shaver, G.R., Turetsky, M.R., 2014. Circumpolar assessment of permafrost C quality and its vulnerability over time using long-term incubation data. <i>Global Change Biology</i> 20, 641-652.</p> <p>Knoblauch, C., Spott, O., Evgrafova, S., Kutzbach, L., Pfeiffer, E.-M., 2015. Regulation of methane production, oxidation and emission by vascular plants and bryophytes in ponds of the northeast Siberian polygonal tundra. <i>Journal of Geophysical Research: Biogeosciences</i> 120, 2525–2541.</p> <p>Overduin, P.P., Liebner, S., Knoblauch, C., Günther, F., Wetterich, S., Schirrmeister, L., Hubberten, H.-W., Grigoriev, M.N., 2015. Methane oxidation following submarine permafrost degradation: Measurements from a central Laptev Sea shelf borehole. <i>Journal of Geophysical Research: Biogeosciences</i> 120, 965-978.</p> <p>Schädel, C., Bader, M.K.F., Schuur, E.A.G., Biasi, C., Bracho, R., Capek, P., De Baets, S., Diakova, K., Ernakovich, J., Estop-Aragones, C., Graham, D.E., Hartley, I.P., Iversen, C.M., Kane, E., Knoblauch, C., Lupascu, M., Martikainen, P.J., Natali, S.M., Norby, R.J., O'Donnell, J.A., Chowdhury, T.R., Santruckova, H., Shaver, G., Sloan, V.L., Treat, C.C., Turetsky, M.R., Waldrop, M.P., Wickland, K.P., 2016. Potential carbon emissions dominated by carbon dioxide from thawed permafrost soils. <i>Nature Climate Change</i> 6, 950-953.</p> <p>Walz, J., Knoblauch, C., Böhme, L., Pfeiffer, E.-M., 2017. Regulation of soil organic matter decomposition in permafrost-affected Siberian tundra soils - Impact of oxygen availability, freezing and thawing, temperature, and labile organic matter. <i>Soil Biology and Biochemistry</i> 110, 34-43.</p>