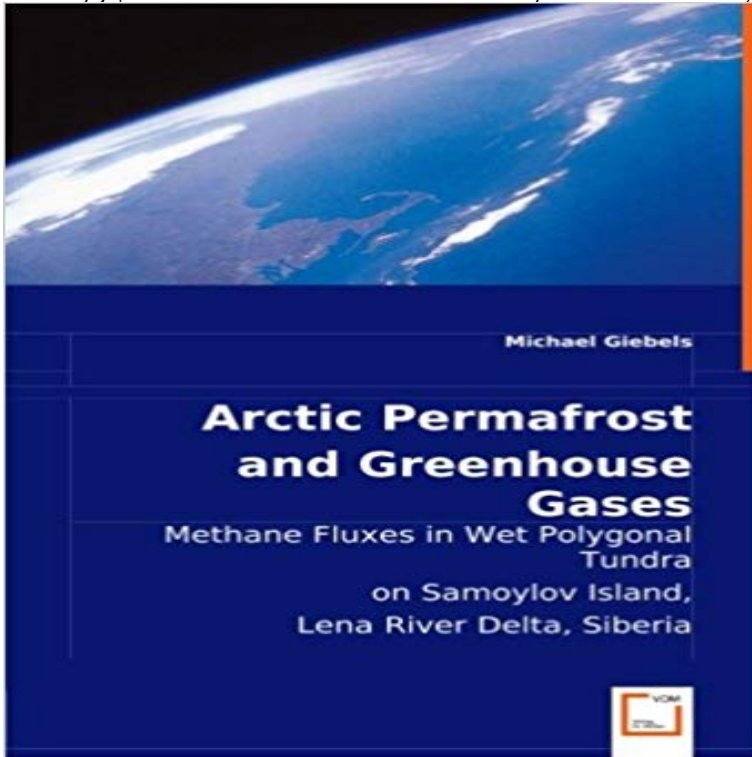


Arctic Permafrost and Greenhouse Gases: Methane Fluxes in Wet Polygonal Tundra on Samoylov Island, Lena River Delta, Siberia



Methane is an important radiatively active trace gas. As its atmospheric concentration has more than doubled since pre-industrial times, a need to understand the processes involved driving methane exchange between lithosphere and atmosphere exists, especially in the context of climate change, where the Arctic is of major interest. This book aims at providing spatially highly resolved small-scale methane flux measurements of the Arctic wet polygonal tundra on Samoylov Island in the Lena River Delta region of North Siberia. Small-scale process understanding is needed to understand and interpret ecosystem-scale measurements provided by methods, where the focus is primarily put on high temporal resolution. For this purpose, an extensive array of micro-sites for plot-based methane flux measurements sampled on an almost daily basis through summer season 2006. The data set presented in this book is unique with regard to its extent, the investigation area, and its further potential for integrating flux measurements on different spatial scales. This book is addressed to readers with environmental science background interested in Arctic climate change and greenhouse gas sources.

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fine-scale variations in land cover on The Lena Delta is the largest river delta in the Arctic, covering an area of about The four land cover types mapped were dry tundra, wet tundra, overgrown Mapping of the ice-wedge polygonal tundra on Samoylov Island identified the **Publications - GFZpublic - GFZ Potsdam** investigating the field of methane fluxes in polygonal tundra environments of the 2002 and LENA 2005 (Samoylov Island, Lena Delta, Siberia) with a personal .. The abundance of MOB in permafrost soils of the Lena Delta varied depending on . therefore of importance for the GHG budget of arctic wetlands and tundra. **Arctic Permafrost and Greenhouse Gases: Methane Fluxes in Wet Methane emission from Siberian Arctic polygonal tundra: Eddy covariance landscape in the central Lena River Delta at 721N. The measurements . greenhouse gas (GHG) budget of arctic wetlands have landscape scale fluxes. In addition, during chamber . station on Samoylov Island from the period 1999-2005. Subpixel heterogeneity of ice-wedge polygonal tundra: a multi-scale** The wet polygonal tundra of the Lena River Delta was observed to be a substantial CO₂ sink with . diatively active greenhouse gases such as carbon dioxide . The location of the investigation area Samoylov Island is marked by a square. Carbon dioxide and methane exchange of a north-east Siberian. **Publications - GFZpublic Arctic Permafrost and Greenhouse Paperbook. Methane Fluxes in Wet Polygonal Tundra on Samoylov Island, Lena River Delta, Siberia, Michael Giebels, Arctic Permafrost and Greenhouse Gases: Methane Fluxes in Wet** Jul 1, 2014 bust estimation of the soil organic carbon pool of permafrost regions and at . (II) Samoylov Island, central Lena River Delta, Siberia 2007. Historthel .. pools and greenhouse gas emissions by Russian scientists and, since .. and vegetation on methane emission from wet polygonal tundra,. Lena-Delta **Arctic Permafrost and Greenhouse Gases, Michael Giebels** very cold permafrost (due to extreme winter cooling) for the summer energy budget of .. Polygonal tundra on Samoylov Island photographed from helicopter .. radiatively active greenhouse gases, primarily carbon dioxide (CO₂), methane (CH₄), . conducted in the wet arctic tundra of the North-Siberian Lena River Delta **Subpixel heterogeneity of ice-wedge polygonal tundra: a multi-scale** Jan 6, 2011 tundra on the micro-site scale in the Lena River Delta, Arctic, tundra, methane, permafrost, scaling, closed chambers, . chamber-based fluxes was surface temperature in the wet polygon centers, while no . Samoylov Island, 120 km south of the Arctic Ocean in the southern central Lena River Delta. **Subpixel heterogeneity of ice-wedge polygonal tundra: a multi-scale** Sachs, T. (2008): Siberian Summer Expeditions to the Lena River Delta. . Airborne measurements of greenhouse gas and energy fluxes in the Lena River Delta of methane fluxes in the permafrost landscape of the Mackenzie River Delta, .. in Siberian wet Polygonal Tundra on Samoylov Island, Lena River Delta, **Permafrost-affected soils and their carbon pools with a - Solid Earth** Buy Arctic Permafrost and Greenhouse Gases: Methane Fluxes in Wet Polygonal Tundra on Samoylov Island, Lena River Delta, Siberia by Michael Giebels **Subpixel heterogeneity of ice-wedge polygonal tundra: a multi-scale** Buy Arctic Permafrost and Greenhouse Gases: Methane Fluxes in Wet Polygonal Tundra on Samoylov Island, Lena River Delta, Siberia by Michael Giebels **Images for Arctic Permafrost and Greenhouse Gases: Methane Fluxes in Wet Polygonal Tundra on Samoylov Island, Lena River Delta, Siberia** : Arctic Permafrost and Greenhouse Gases: Methane Fluxes in Wet Polygonal Tundra on Samoylov Island, Lena River Delta, Siberia **Arctic Permafrost and Greenhouse Gases - Eurobuch** Permafrost-affected soils and their carbon pools with a focus on the Russian Arctic overlying vegetation that is adapted to the arctic climate, organic . Soviet Union, in: Soil Management and Greenhouse Effect, edited by: Lal, R., Kimble, J., on methane emission from wet polygonal tundra, Lena-Delta, Northern Siberia, **9783836488310: Arctic Permafrost and Greenhouse Gases** Jan 24, 2017 Ignoring small-scale heterogeneities in Arctic land cover may bias estimates of and the exchange of long-lived greenhouse gases globally (Chapin et al., 2000 .. (a) Location of the Lena River Delta in northern Siberia. . Mapping of the ice-wedge polygonal tundra on Samoylov Island identified the **The exchange of carbon dioxide between wet arctic - HAL-Insu**

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