

Special Issue

The Carbon Cycling across the Boreal and Arctic Ecosystems of Northern Eurasia

Message from the Guest Editors

We are pleased to announce a Special Issue that addresses relevant topics at the nexus of climate and environmental changes across the high latitudes of Siberia and Northern Eurasia. Through physical and biological processes, the vast Siberian domain of Northern Eurasia plays an important role in regulating regional to global carbon and hydrologic cycles, atmospheric composition and climate feedbacks. This special issue welcomes articles focusing on atmosphere-ecosystem interactions, terrestrial carbon cycling, lateral terrigenous C fluxes to aquatic systems, wildfire emissions, effects of permafrost degradation, vulnerability and adaptation of plant communities and ecosystems of the boreal zone and the Arctic to climate and environmental changes. Furthermore, we welcome articles reporting novel approaches to monitor, model, and upscale carbon and ecosystem dynamics of Siberia and Northern Eurasia under observed and projected global warming.

Guest Editors

Dr. Alexey Panov

Dr. Anatoly S. Prokushkin

Dr. Julia Kurbatova

Deadline for manuscript submissions

closed (21 June 2021)



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About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

Dr. Daniele Contini

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