Forest-Atmosphere Interactions

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Message from the Guest Editors

Forest ecosystems strongly interact with the atmosphere. These coupled processes alter atmospheric chemistry and physics and make the forest subject to changes in environmental factors. Despite their importance to global and local climate and air quality, to date, not all processes of forest–atmosphere interactions have been described or elucidated. This special issue will focus on solving this gap. As global temperatures increase and exacerbate climate change, it is important to understand how forested areas will react to such changes, since the feedback to the atmosphere can be very large: from a direct impact on the global radiation budget via aerosol and greenhouse gas production and a change in the atmospheric lifetime of pollutants to alterations in local precipitation. For this special issue we welcome investigations in order to constrain the processes governing the forest–atmosphere interactions on various scales. Only based on a solid database and a fundamental understanding can guidelines for mitigation and adaptation strategies be suggested to policy-makers.

Special Issue

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