Special Issue

Response of Boreal and Tropical Forest Ecosystems to Extreme Weather Events

Message from the Guest Editor

The overall goal of this Special Issue is to bring together the most recent experimental and modeling studies focused on a better understanding of the possible response of tropical and boreal forest ecosystems to extreme weather events. Boreal and tropical forests cover wide areas of the Earth's surface and play an essential role in providing habitats for a large number of plants, animals, and microorganisms. The increased frequency of anomalous weather events over the last decades in different regions can significantly influence forest ecosystems. Increased frequency of heat waves and drought events can result in higher risks of forest fires that, in turn, lead to the loss of forest resources. Forest and tree damage (e.g. windthrows, windfalls) caused by wind storms may lead to changes in forest microclimate, energy and water budgets, GHG exchange, etc. For this Special Issue, we invite scientists working in meteorology, climatology, ecology, biogeochemistry, and forestry to contribute new experimental and modeling studies of forest–atmosphere interactions on local and regional scales.

Guest Editor

Prof. Dr. Alexander Olchev

Department of Meteorology and Climatology, Faculty of Geography, Lomonosov Moscow State University, 119991 Moscow, Russia

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Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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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
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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