Special Issue

Tree Responses to Carbon Dioxide, Heat and Drought: Future Growth Conditions

Message from the Guest Editors

Climatic changes associated with the rising atmospheric concentration of carbon dioxide ([CO2]) are predicted to increase the frequency of extreme climatic events. Drought events are considered likely to increase in frequency, duration, and severity in many parts of the world. Many of these drought events will be accompanied by heatwaves—transient increases in temperature above mean levels. These abiotic stresses will have direct effects on plant physiology, and therefore severe implications for the maintenance of biodiversity and ecosystem service in natural and urban forests. Analysis of the response of natural and urban forests to abiotic stresses in isolation and combination is fundamental to our understanding of the impacts and mitigation of climate change. This Special Issue will focus on the impact of temperature, water availability, atmospheric (CO2) and pollution on the morphological and physiological characteristics of urban trees. A special focus will be given to the role of heat stress on forests.

Guest Editors

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Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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