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Impacts of Climate Change on Tree Physiology and Responses of Forest Ecosystems

Guest Editor:

Dr. Mariangela Fotelli

Hellenic Agricultural
Organization-Demeter, Forest
Research Institute, Vasilika, 570
06 Thessaloniki, Greece

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Message from the Guest Editor

Climate change-driven events, as heat waves, prolonged droughts, and floodings, are evident and characterised by noticeable intensity, frequency, and spatial distribution. However, forest trees may develop remarkable physiological mechanisms to cope with challenging environmental regimes caused by global warming, rising atmospheric CO₂, fluctuating water availability, elevated N depositions, and others. Whether physiological resilience and resistance on the tree level result in ecophysiological responses ensuring plasticity of forest ecosystems to the ongoing climate change or if forests may be severely impacted by climate change are core questions of current forest research.

This Special Issue of *Forests* aims at exploring the progress on key aspects of tree physiology and forest ecophysiology in light of climate change. We welcome review articles and original research papers from the leaf to the ecosystem level, based on experimental, theoretical, or modeling approaches.



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Special Issue



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Forests Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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