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Drought Resilience of Forest Trees

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Deadline for manuscript submissions:
closed (15 September 2021)

Message from the Guest Editor

The increasing occurrence and severity of droughts is one of the major factors determining structural and functional changes in forests. Tree resilience, including the resistance to and response following drought events, probably incorporates a complex set of processes regulated at several scales, from genes to the ecosystem level. Understanding the mechanisms that mediate drought-induced tree mortality is critical to model and take sound science-based management decisions towards having drought-resilient forests. Forest management approaches such as the use of mixed-species stands, resilient tree provenances, or the control of tree density or understory cover may be determinant in increasing forest resilience to drought.

This Special issue is open to original contributions on tree resilience to drought, including studies on the mechanisms of tree resilience and the interaction of drought with other global change drivers. We strongly encourage studies relating tree functioning and management practices to increasing tree resilience to drought.

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