Special Issue

Climatic Impact on Functional Wood Anatomy, Seasonal Wood Formation and Tree Growth

Message from the Guest Editor

Tree adaptation to changing environments includes morphological, anatomical, and physiological aspects of plant response to external forcing factors. However, it is often unclear how the adaptation of wood functional traits to changing climate affects tree growth and wood production. While most of these responses are studied on the individual tree level, upscaling to the species level or to forest ecosystems still remains challenging. This Special Issue of Forests invites contributions describing advances in methodological aspects on quantitative wood anatomy, wood formation dynamics, and scaling problems to larger spatial scales. A special focus lies on approaches linking functional wood anatomy with tree growth and forest responses to climatic change, including aspects of adaptation to expected future climate conditions and tree mortality. Furthermore, case studies from environments which are still hardly studied, e.g., tropical climate zones or high mountain regions are of great interest.

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Message from the Editor-in-Chief

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