Special Issue

Phenological Patterns of Wood Formation and Allocation of Coniferous and Broadleaved Species

Message from the Guest Editors

The capacity of forests to continue to mitigate climate change depends on their ability to cope and adapt to global change drivers. The cyclic dynamics of wood formation are the primary biological process through which carbon is sequestered in plants. The wide variation observed in the timing of wood formation across geographical regions demonstrates the high plasticity of trees in adapting their growth to local environmental conditions. Generally, long-term series of tree-ring widths are thought to be equivalent to the total annual growth measured in autumn. However, this annual growth is the result of a gradual accumulation of cells, which lasts for at least 3–4 months. During this period, trees can experience cold events, drought stress, heat waves, and other disturbances. The main aim of this Special Issue is to gain an understanding of the patterns of seasonal growth phenology (timing and magnitude) and carbon allocation in different organs (e.g., stem, branch, and coarse root) of coniferous evergreen and deciduous broadleaved species. This issue therefore welcomes the submission of any research focused on the above-mentioned topics.

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