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Radial Tree-Ring Traits Variation in Relation to Climate Factors

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Deadline for manuscript submissions:
closed (20 May 2020)

Message from the Guest Editor

Tree radius growth occurs based on xylem increments on structures already formed. Tree-rings, annually resolved radial xylem increments. Thus, xylem traits are important variables involved in tree performance and forest function due to the physiological processes involved and the structural traits of the xylem in tree trunk growth.

Trees are necessarily highly plastic in their response to environmental factors. In addition, conflicting demands on the xylem structure can appear under different environmental conditions. Under these circumstances, there are changes in the xylem traits, such as modifications in the cell morphology and chemical composition, changes in cellulose and lignin proportions, and changes in the proportion of cell types, that at the same time induce changes in higher level traits.

We encourage studies from all fields of dendroecology with or without ecophysiological research, including experimental studies, monitoring approaches (phenology, dendrometer records) and models to contribute to this Special Issue in order to promote knowledge and adaptation strategies for the preservation, management, and future development of forest ecosystems.

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