Special Issue

Tree-Ring Analysis: Response and Adaptation to Climate Change

Message from the Guest Editors

The analysis of tree rings, or dendrochronology, is a fundamental tool for understanding the impacts of climate change on forest ecosystems. One of the most significant areas in this field is the reconstruction of historical climates, as growth rings provide valuable information about past environmental conditions, such as temperature and precipitation, allowing scientists to identify patterns of change over time. Additionally, this analysis helps with the assessment of different tree species' resilience and ability to adapt to adverse climatic conditions, which is crucial for biodiversity conservation. Research in this area is also related to the carbon cycle, as tree growth influences carbon storage in ecosystems, a key factor in combating climate change. Another important aspect is phenology, the study of growth and reproduction cycles in trees, which can reveal how they are responding to variations in temperature and water availability.

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