



Climatic Variability Anticipation and Adaptation of Forest

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Message from the Guest Editor

Both the anticipation and the adaptation of forests and woodlands to climate variability and climate change are often more complex than in other ecosystems because of the longevity of the dominating woody species, but also because of their heterogeneous adaptation strategies. Therefore, the influence of climate variability on ecosystems dominated by woody species is of particular interest. Enhanced climatic variability with spatiotemporal changes in rainfall patterns in combination with variabilities of temperature regimes have various impacts on woody ecosystems. As an example, prolonged vegetation periods with an increasing possibility of late frost might have larger effects. In addition, increasing CO₂ concentrations are also impacting the ecosystems, possibly changing nutrition cycles, but also propagating C3 plants in tropical ecosystems. The quantification and modeling of actual variabilities and changes, and future long-term changes are of great importance to manage sustainable adaptation. Especially the impact of climate has to be delinked from other impacts like wildfires or insect casualties that might also be related to climate.





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