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Impacts of Climate Change on Forest Ecosystem Services and Forest Management

Guest Editor:

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Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editor

Dear Colleagues,

Forests and trees provide important ecosystem goods and services. They are important in many cultural traditions and offer recreation, protection, water, food, medicines, bioenergy, etc. They also provide irreplaceable economic opportunities. Climate change affects forest dynamics directly through changes in air temperature, solar radiation, rainfall, and atmospheric concentrations of carbon dioxide or indirectly through changes in the composition and diversity of plant communities. Although the range and magnitude of climate change impacts are highly uncertain, they will likely threaten the manifold functions and services of forests.

This Special Issue aims at investigating the impacts of climate change on forest functioning and ecosystem services as well as at exploring adaption strategies for forest management. We welcome original research, review, method papers, commentaries providing experimental evidence of these changes as well as modeling studies trying to predict the future impacts of climate change. We also encourage studies dealing with adaptation strategies for forests with a focus on one or more of the manifold ecosystem services as described above.