

Special Issue

Carbon, Water and Energy Fluxes in Forest Ecosystems

Message from the Guest Editors

More than two-thirds of the world's forests are dominated by human activities, and the amount of primary forest is in precipitous decline. In Europe, 86% of the forested area is managed with a different range of intensity. Management can change the forest canopy characteristics, soil properties (temperature profile, heat and water storage, nutrient and carbon stocks), and understory vegetation with significant impacts on carbon, water, and energy fluxes. Here, we consider primary forests to be forests of native tree species where there are no clearly visible indications of human activities, and the ecological processes are not significantly disturbed. This Special Issue focuses on carbon (CO₂ and CH₄), water, and energy fluxes in undisturbed primary forests based on long-term measurements using the eddy covariance technique or chamber method. Contribution can be related to the following:

- Carbon, water, and energy interactions in forest ecosystems;
- Effects of extreme climatic events on water, carbon cycles and forest functions;
- Impacts and consequences of the main disturbance factors on forest ecosystems.

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