

Special Issue

Climate Change and Air Pollution Effects on Forest Ecosystems

Message from the Guest Editors

Both climate change and air pollution have large negative impacts on physiological processes and functions on forest ecosystems. Our ability to take urgent measures to combat climate change and its impact on forest ecosystems and conserve forest biodiversity depends upon knowing the latest scientific results on the status of forest ecosystems. At present, climate and air quality monitoring in forests around the globe is performed in different networks by different organizations. Unfortunately, there are a lot of gaps in our knowledge of the detection and monitoring of their effects on forest ecosystems. There is a need for a better understanding of interactions and fluxes at the ecosystem level and how different pollutants and climate effects are reflected or transferred in quantifiable ecosystem variables in both the short and long term. For the detection and monitoring of air pollution actions in the climate change context to be relevant, there is a need for better science–policy interaction. Use of Earth Observation data for processing, validation, and analysis and new technical developments may provide us with new results in air pollution investigations.

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