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Natural Disturbance Dynamics Analysis for Forest Ecosystem Management

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Message from the Guest Editor

The role of ecosystem legacies in the course of dynamic processes of forest biomes around the world requires thorough analysis before implementing new silvicultural techniques. Legacy syndromes, in which ecological memory is impacted by management activity, are suggested as a platform for designing ecosystem management in the future. The impact (length and strength) of the pool of ecosystem legacies and how they vary at different spatial and temporal scales is a most promising line of further research. In particular, the investigation of how the carbon cycle is directed by legacies is crucial to understanding climate change impacts. Analyses of successional trajectories, ecosystem memory, and novel ecosystems are needed to improve modelling in support of forests.

The objective of this Special Issue is to begin to untangle successional patterns and the driving forces of disturbances dynamics. To this end, we solicit scientists to share their cutting-edge research in ecosystem approaches to forest management. In particular, we are interested in further elaboration of the theory of ecological memory and the underpinnings of ecosystem legacies and legacy syndromes.

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