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Long-Term Monitoring and Research in Forest Hydrology: Towards Integrated Watershed Management

Guest Editor:

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Message from the Guest Editor

Forest hydrology, as a discipline, was designed to address the fundamental questions regarding the impacts of deforestation on flood and drought. Despite the remarkable and detailed progress of research into forest hydrology, the original questions have not yet been fully answered. Additionally, the knowledge gained through this research has not yet been integrated into forest and water management in the real world. Recently, payment for environmental services (PES) schemes was made available as a new tool for forest and water management, but most of these schemes fail to consider the recent advances in forest hydrology.

Therefore, it is an important and urgent challenge to understand long-term hydrological changes in forests and to provide robust scientific knowledge on the response of forest and water resources to those changes. Such detection of environmental changes and ecosystem responses requires baseline datasets based on long-term hydrological observations of forests.

The aim of this Special Issue is to gather both recent scientific research of forest hydrology based on long-term data and integrated watershed management based on current research in forest hydrology.

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Message from the Editor-in-Chief

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