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Forest Climate Change Revealed by Tree Rings and Remote Sensing

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Message from the Guest Editors

Along with the progress of forest ecosystem research, the combination of multiple technological means at different spatial scales has become a trend that will see increasing development in the future. Tree-ring data (width, density, and isotopes) is a powerful resource to detect regional climate change and its driving factors. Remote sensing provides valuable insights into pressing environmental challenges and is a critical tool for driving solutions. The rapid advancement in remote-sensing technology and platforms is likely to result in a greater democratization of remote-sensing data to support forest management and conservation in parts of the world where environmental issues are the most urgent. In addition, to the extent that forest dynamics is a surrogate for climate conditions, it would allow remote sensing for the evaluation of prior climate conditions at regional, and perhaps global scales. This Special Issue encourages research on forest (or vegetation) climate change in combination with tree-ring and remote sensing, but also accepts research on climate change based on tree-ring data (width, density, and isotopes), and work on vegetation change based on remote sensing.



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