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Remotely-Sensed Phenology of Forests under Changing Climate Conditions

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Deadline for manuscript submissions:
closed (20 February 2020)

Message from the Guest Editors

Remotely-sensed phenology is defined as the seasonal pattern of variation of vegetation indices in vegetated land surfaces observed from satellite remote sensing. The length of the time series, high temporal frequency, internal consistency, and continuous availability of the satellite measurements are fundamental requirements when dealing with ecosystem responses to climate change dynamics.

This Special Issue of Forests is focused on quantifying and modeling remotely sensed phenology under climate change conditions through novel methodological approaches. We particularly welcome studies that aim to answer the main questions connected to the changing climate by exploiting remote sensing potentialities, namely: How have the patterns of phenology shifted within different ecological zones over the last decades? What are the key factors affecting vegetation growing season change in recent years? How do the increased intensity and frequency of climate-induced stresses affect forests structure, distribution, and composition, with consequent changes in biomass production? What are the forests' adaptive responses to changing climate conditions?

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