



Remote Sensing for Vegetation Phenology in a Changing Environment

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Message from the Guest Editors

Dear Colleagues,

Climate changes, including warming and elevated variability, substantially influence the phenology of terrestrial vegetation, which in turn feeds back to the climate via altered carbon and water dynamics. Plants respond to the changes in climate from local to global scales and from natural to urban systems. Therefore, monitoring changes in phenology and exploring climate and other drivers of phenology changes can advance the mechanistic understanding of phenology changes, which will significantly contribute to the studies of climate and related global carbon dynamics.

The focus of this special issue is the applications of remote sensing science and technology to address the challenges in the vegetation phenology studies in a changing environment. Ground monitoring based on phenology images has been frequently used for various vegetation types in North America and other countries. Multisource satellite images at moderate spatial resolution and high temporal frequency have been widely applied in monitoring and understanding interannual changes and long-term trend of phenology in various ecosystems, such as forests and agricultural lands.





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