



Forest Biomass Change and Carbon Dynamics

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submissions:

closed (28 February 2023)

Message from the Guest Editors

Dear Colleagues,

Over recent years, considerable effort has been placed into estimating forest carbon stocks by generating regional to global maps of aboveground biomass from Earth observation data. These efforts often consisted of a single snapshot of the carbon stock at a given time. However, processes leading to changes in stocks, such as deforestation, degradation, afforestation, and regeneration, are constantly occurring, and attention is therefore increasingly shifting towards quantifying forest biomass at finer spatial resolutions and shorter temporal frequencies. This presents a particular challenge because of the wide range and sensitivities of sensors used for biomass retrieval, the differences in algorithms employed, the different observation modes and characteristics of observing sensors, and, critically, the statistical aspects of measuring change. This Special Issue seeks to improve our understanding of current methods and datasets to characterise forest carbon dynamics and biomass change worldwide, focusing on the principles that underlie changes in forest biomass associated with changes in extent, structure, function, and floristic composition.





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Message from the Editor-in-Chief

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