



Advances in Estimating Aboveground Biomass Based on Multi-Source Remote Sensing Data

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Message from the Guest Editors

Dear Colleagues,

Above-ground biomass (AGB) is a critical proxy for productivity and the most dynamic terrestrial carbon pool. The accurate determination of AGB is critical in monitoring plants' growth and assessing terrestrial carbon budgets. Remote sensing provides the most practical and effective approach for estimating AGB from a local to a global scale. In particular, the emerging open and high spatiotemporal resolution microwave and optical sensors (such as the Sentinel sensors) and the development of LiDAR and unmanned aerial vehicles (UAVs) allows an unprecedented opportunity for the accurate estimation of AGB. Considerable amounts of multi-source remote sensing data and popular cloud computing platforms such as Google Earth Engine (GEE) make it easy to rapidly monitor AGB in different ecosystems at low costs.

Topics may include but are not limited to model and algorithm developments, the assessment of different methods, responses of the AGB to climate change and human activities, and applications of remotely sensed AGB data.





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Message from the Editor-in-Chief

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