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Remote Sensing of Carbon Fluxes and Stocks II

Guest Editor:

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Deadline for manuscript submissions:
closed (18 December 2024)

Message from the Guest Editor

Much concern has been raised regarding the extent to which rapid climate change and human activities affect ecosystem functions and services. Quantifying carbon fluxes and stocks is essential for helping us understand the responses of terrestrial ecosystems to climate change and anthropogenic activities. Remote sensing observations are valuable for estimating the carbon fluxes and stocks of terrestrial ecosystems, and for assessing the impacts of the changing climate and anthropogenic drivers on the terrestrial carbon cycle at various spatial and temporal scales.

Specifically, we invite the following contributions based on various remote sensing data:

- Estimating carbon fluxes at a variety of spatiotemporal scales;
- Estimating aboveground biomass at different spatial scales;
- Quantifying errors and uncertainties of carbon flux and/or stock estimates;
- Assessing interannual variability and long-term trends of carbon fluxes and/or stocks;
- Examining the terrestrial carbon cycle integrating remotely sensed data and modeling approaches;
- Understanding the carbon–climate feedbacks at regional to global scales.

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Message from the Editorial Board

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