



Terrestrial Carbon Cycle

Guest Editors:

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Deadline for manuscript
submissions:

closed (30 June 2019)

Message from the Guest Editors

Dear Colleagues,

The terrestrial carbon cycle is controlled not only by photosynthesis, but also by respiration, carbon allocation, disturbance and rates of carbon turnover. However, these processes remain difficult to measure and challenging to model. As terrestrial ecosystem carbon cycle models become increasingly sophisticated, the level of uncertainty has also increased, as more mechanisms have been incorporated into the models. Therefore, spatially explicit quantification of terrestrial carbon budget remains uncertain. In this issue, we welcome contributions that make use of legacy or modern remote sensing observations to improve the characterisation of terrestrial carbon cycle processes. We particularly welcome novel remote sensing techniques and applications, such as chlorophyll fluorescence, CO₂ flux observations, and photosynthetic trait mapping and their integration into mechanistic models to better understand carbon cycle processes. Model-data integration and observational studies at leaf, plant, field, regional and global scales are also welcome.

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Message from the Editor-in-Chief

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