



## Remote Sensing of Greenhouse Gas Emissions

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Deadline for manuscript  
submissions:

**closed (1 May 2023)**

### Message from the Guest Editors

The remote sensing observations of atmospheric greenhouse gases (GHGs) and Earth's surface enable the quantification and evaluation of GHG fluxes, originating from both anthropogenic and natural processes, and inform atmospheric chemistry. The observations of vegetation activities and hydrological and cryospheric status on land, such as vegetation type, greenness, leaf area, precipitation, inundation, soil moisture, and snow and ice, provide valuable information about ecosystem states. The assimilation of Earth Observation (EO) data into models opens possibilities for novel modelling approaches and avenues for reducing uncertainties in GHG flux estimates.

This Special Issue invites contributions that present remote sensing applications providing means for GHG flux quantifications, including but not limited to GHG sources and sinks inferred from satellites' GHG and EO data, utilization of those data in process-based land ecosystems modelling and atmospheric inverse modelling, variations in the atmospheric abundance of carbon gases, and the application of multiple tracers from satellite platforms.





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## Message from the Editor-in-Chief

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