



Remote Sensing of Greenhouse Gas Emissions

Guest Editors:

Dr. Aki Tsuruta

Finnish Meteorological Institute,
P.O. Box 503, 00101 Helsinki,
Finland

Dr. Tuula Aalto

Finnish Meteorological Institute,
P.O. Box 503, 00101 Helsinki,
Finland

Dr. Marko Scholze

Department of Physical
Geography and Ecosystem
Science, Lunds Universitet, Box
188, 221 00 Lund, Sweden

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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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Editor-in-Chief

Dr. Prasad S. Thenkabail

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Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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