



Remote Sensing Observation of Greenhouse Gases Emission

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Message from the Guest Editor

Dear Colleagues,

This Special Issue focuses on the methodology and application of remotely sensed datasets to estimate carbon emissions from human activity, large-scale power plants, the urban industry, biomass burning, forest fires, etc. Satellite observation, aircraft-based monitoring, ground measurement of emissions, and concentrations of carbon dioxide and methane are greatly encouraged. Additionally, the transport of greenhouse gases using GEOS-chem or satellite-retrieved sources emissions are also within our scope.

Original results, review papers, and model studies related to the following aspects are all welcome contributions:

- Anthropogenic carbon emissions;
- Large power plant carbon emissions;
- Urban carbon emissions;
- Forest fire emissions;
- Biomass burning emissions;
- Methane emission inventory;
- Greenhouse observing satellite carbon emission retrieval;
- Atmospheric transport simulation;
- Terrestrial ecosystems in greenhouse gas budgets;
- Modeling of emission, mixing ratios, and transport of greenhouse gases.



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Guest Editor

Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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