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Frontiers in Atmospheric Remote Sensing and Modelling

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Deadline for manuscript submissions:
closed (21 July 2023)

Message from the Guest Editors

Dear Colleagues,

The advances in remote sensing and modeling not only provide scientific insights to identify changes in meteorological parameters and atmospheric compositions, but also to investigate the underlying driving forces and factors for these dynamics. The improvement of remote sensing data is expected to be helpful in constraining global and regional atmospheric models.

We welcome current and planned applications for atmosphere remote sensing and modelling. Topics include but are not limited to:

- The development of remote sensing algorithms;
- The application of satellite products;
- The assimilation of meteorological/vegetation remote sensing data;
- The comparison and validation of satellite, ground observations, and simulations;
- Assimilation technology for remote sensing;
- The observation and prediction of air quality/GHGs;
- Climate state analysis based on satellite and simulation;
- The impact of the COVID-19 pandemic on air pollution/GHGs;
- The evaluation of global/regional modelling;
- Atmospheric composition reanalysis data;
- Air pollution assessment based on satellite and simulation.

mdpi.com/si/109478

Special Issue

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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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Journal Rank: CiteScore - Q2 (Environmental Science (miscellaneous))

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