Atmospheric and Surface Modeling, Data Assimilation, and Forecasting of Remote Sensing

Guest Editors:

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Message from the Guest Editors

This Special Issue calls for papers addressing the developments of the modeling components for observations sensitive not only to the atmosphere, which is often well represented by existing models, but other Earth system components (e.g., ocean, sea ice, snow, land, atmospheric composition). It also addresses shortcomings in the models that fast models are trained on, such as line-by-line transmittance models, and in the models that are used for computing particle scattering and absorption.

Suggested articles for submissions will consist of full-size papers documenting research pertaining to the following themes:

1. Fast and accurate radiative transfer schemes;
2. Atmospheric scattering and emission related to aerosols, clouds, and precipitation;
3. Surface reflectivity and emissivity modeling;
4. Applications of radiative transfer models in data assimilation and remote sensing.
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