



New Perspectives for Atmospheric Correction: Theory, Methods and Applications

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Message from the Guest Editors

Dear Colleagues,

Atmospheric correction is critical in deriving land surface biophysical parameters from both optical and thermal infrared remotely sensed data. Radiative transfer model rigorously describes the scattering, absorption and emission characteristics of cloud, aerosols and gases in the atmosphere, which is the key theory serving for atmospheric parameters retrieving and atmospheric correction.

This Special Issue is aimed at the most recent progresses of the following topics, but not limited to:

- Retrieval of aerosol properties from moderate-high spatial resolution satellite observations or by combining different instruments.
- Better aerosol optical depth retrieval based on historical accumulated data and validation, especially for bright surface and sparsely vegetated surface.
- Radiative transfer modeling, atmospheric parameters inversion and validation.
- Novel or operational atmospheric correction algorithms for optical and thermal infrared images.
- Land surface variables retrieval and evaluation under various atmospheric conditions.

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Guest Editors





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