



Advances in Remote Sensing of Aerosol Optical Properties and the Effects on Radiation

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Message from the Guest Editors

Dear Colleagues,

The potential impacts of aerosol radiative force on the climate have generated considerable recent interest. In general, atmospheric aerosols affect the climate in two ways: through the so-called direct effect, which is primarily human activity due to scatter incoming solar radiation, as a few aerosol types can absorb solar radiation, and through the indirect effect that plays a role in cloud formation because aerosols may serve as cloud condensation nuclei (CCN) and ice nuclei (IN), affecting the properties of clouds. Uncertainties in the understanding of their both effects (direct and indirect) limit our knowledge about climate change. In fact, aerosol radiative effects and their relationship to climate change remain inaccurate (IPCC 2013), and this uncertainty is more considerable in some ranges of the solar spectrum, for example, in the visible range. Solar radiation modification approaches, if implemented, introduce a widespread range of new risks to people and ecosystems, and these risks are not well understood (IPCC 2023). Thus, it is very important to publish research on how aerosols affect solar radiation in different wavelength ranges.





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