



Analyzing Aerosol–Cloud–Climate Interactions through Remotely Sensed Data

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Message from the Guest Editors

The impact of aerosols on cloud properties is one of the largest uncertainties in the anthropogenic radiative forcing of the climate. Significant progress has been made in constraining this forcing using observations, but uncertainty remains, particularly around the magnitude of cloud rapid adjustments to aerosol perturbations. To accurately quantify cloud responses to aerosols, there is a need for an improved detection of both spatial and temporal quantities of cloud water content, albedo, and cloud and aerosol particle numbers.

This Special Issue seeks papers dedicated to concurrent measurements of aerosols and clouds using either passive or active remote sensing sensors from space-borne, airborne, balloon-borne, and UAV platforms, as well as ground-based sensors, with a special emphasis on high temporal resolution measurements that can detangle meteorological effects from aerosol effects on clouds.

We welcome papers covering scopes of liquid, mixed-phase, and cirrus cloud properties under various aerosol conditions (pristine and polluted) and at various geographical locations (equator and high latitudes).





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Message from the Editor-in-Chief

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