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## abstract

The accuracy of the solid view angle of sky radiometer is very important in retrieving aerosol single scattering albedo. One of the methods for obtaining the solid view angle is to measure the spectral irradiance of a uniform light source which radiance is known, indoors, based on the relation between radiance and irradiance. However, the accuracy of using this method is influenced by some measurement uncertainties, especially, those of the extraterrestrial solar spectrum from different sources. In this study, a new method was proposed in order to improve the accuracy of the solid view angle. Estimation.



the spectrum of solar simulator theoretically. •When spectral responsivity of the sky radiometer is measured, spectral mismatch correction between solar simulator and any reference spectrum becomes possible.

1.442

2.88

0.361

0.72

Combined relative standard uncertainty

Expanded uncertainty