

Retrieval algorithm for aerosols based on GCOM-C1/SGLI Retrieval algorithm for aerosols based on GCOM-C1/SGLI

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It is known that atmospheric aerosols have valuable information in many research fields. However estimation of aerosol direct and indirect effects on climate changes in the 5th report of IPCC still involves large uncertainty due to lack of precise aerosol properties.

JAXA (Japanese space agency) is developing the GCOM-C (Global change observing mission?climate) satellite series, which are expected to provide us new aerosol information as well as geo-physical parameters for thirteen years after launch. The first of GCOM-C series will carry the SGLI (second generation global imager) sensor which observes total radiance from near UV to thermal infrared wavelengths including polarization measurements at red and near IR. This work intends to develop an efficient algorithm for aerosol retrieval based on this polarization information to be given by GCOM-C1/SGLI.

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