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Retrieval of Cloud, Water Vapor, and Aerosol Properties II/GLI Data

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Abstract

Retrieval algorithms of cloud, water vapor, and aerosol, were deve
II/GLI dataset. The retrieval algorithm was applied to ADEOS-II G
A-band (763nm) for cloud geometrical properties such as cloud top
a result, a global map of the heights was obtained as a preliminary o
water vapor was also retrieved using near infrared bands (1150nm)
which is possibly complementary to the water vapor amount retriev

radiometer over ocean. Monthly global maps of columnar water va
obtained together from ADEOS-II/GLI and ADEOS-II/AMSR. Fu
of yellow sand (Kosa aerosol), which is one of the UV-absorbing a
using near ultraviolet bands (380nm) with 1 km spatial resolution ov
aerosol property was compared to a ground-based lidar observatio
was found that the result was consistent with each other. Although c
work well, these results are still preliminary, and detailed validation
furture.

Keywords: ADEOS-II/GLI, cloud, water vapor, UV-absorbing a

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