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Journal of The Remote Sensing Society of Japan

Vol. 29 (2009), No. 1 p.29-39

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Near-Global Scale Retrieval of the Optical and Microphy Clouds from Midori-II GLI and AMSR Data

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(Received June 30, 2008) (Accepted December 3, 2008)

Abstract

Various optical and microphysical properties of warm water-phase the GLI and AMSR global datasets are presented. The results indic effective particle radius at the cloud top was small (6 to 10µm) not

and coastal ocean areas, but also over the North Pacific Ocean. Th AMSR coupled analysis first yielded the vertical structure of the effective over middle-to-high latitude areas, which was not covered by TRM results also show that the effective particle radius at the cloud top is than that in the middle to bottom layers in areas where the effective small. These features are very similar to those at the Namibian, East Peruvian regions, which are known as non-precipitation areas. In ac between cloud properties retrieved from GLI and MODIS revealed effective particle radius was smaller than that derived from MODIS effective radius had a single mode in the histogram at $12\mu m$, while t modal structure at $10\mu m$ and $14\mu m$ as well as an inflection point at reasons for this difference in the retrieved effective radii is considered wavelength used for retrieving the cloud effective particle radius, we used $3.7\mu m$ and $2.1\mu m$, respectively.

Keywords: ADEOS-II, Global Imager (GLI), AMSR, Cloud Proj





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To cite this article:

Takashi Y. NAKAJIMA, Hirohiko MASUNAGA and Teruyuki l Scale Retrieval of the Optical and Microphysical Properties of Clo AMSR Data, Journal of The Remote Sensing Society of Japan, 29