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Wind Speed and Latent Heat Flux Retrieved by Simulta of Multiple Geophysical Parameters by AMSR-E

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Abstract

Wind speed and Latent heat flux derived by Advanced Microwave (AMSR) for Earth Observing System (AMSR-E) on Aqua are valid and the mid-latitude Pacific surface buoys. Obtaining the wind spee Relative Wind Direction effect (RWD effect) according to Konda ϵ mean square of the error of the wind speed at the mid-latitude buoy which is slightly worse than that validated by using Tropical Atmos

(TAO) data in the tropics. The validation shows that the mean error almost same as that of AMSR-E standard product. The combined ι and the other AMSR-E products provides the instantaneous latent h observation cells. We show that ambiguity of the estimation of the l_{i} by traditional way of computation from the boundary layer parameter measured by different sun-synchronized satellites. The ambiguity ca measurement of them is found to amount to -1.3 ± 44.3 Wm⁻². The simeasurement of boundary layer parameters can avoid it and make it evaluate the satellite-derived latent heat flux by in situ observation.

Keywords: <u>AMSR-E</u>, <u>Latent heat flux</u>, <u>wind speed</u>, <u>relative wind (</u> <u>radiometer</u>

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