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Microwave Sensing of the Atmosphere-Ocean System w AMSR and Aqua AMSR-E

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Abstract

Simulation of the brightness temperatures at frequencies of AMSR radiometers and algorithms for retrieval of the integrated atmospher surface temperature and sea surface wind are described. The develoused to process Aqua and ADEOS-II microwave measurements ov of satellite microwave sensing in combination with ancillary remote a demonstrated by analysis of diurnal warming in the Okhotsk Sea an

weather systems. AMSR/AMSR-E data were applied for detection tropical cyclones and estimation of their central pressure, for investiparameters of intense mesoscale vortices and mesoscale convective

Keywords: <u>remote sensing</u>, <u>microwaves</u>, <u>ADEOS-II AMSR</u>, <u>Aqu</u> <u>atmosphere-ocean system</u>

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