

Journal of The Remote Sensing Society of The Remote S Available Issues | Japanese | Author: ADVANCED | Volume | Page | Keyword: Search | Search | Add to | Favorite | Add to | Favorite | Add to | Articles | Add to | Favorite | Add to | Articles | Add to | Add to | Articles | Add to | Articles | Add to | Articles | Add to |

<u>TOP</u> > <u>Available Issues</u> > <u>Table of Contents</u> > <u>Abstract</u>

Journal of The Remote Sensing Society of Japan

Vol. 29 (2009), No. 1 p.293-300

An Evaluation of Soil Moisture Retrievals Using Aircraft Passive Microwave Observations During SMEX02

John D. BOLTEN¹⁾ and Venkat LAKSHMI²⁾

- 1) Hydrological Sciences Branch NASA/Goddard Space Flight Ce
- 2) Department of Geological Sciences, University of South Carolina

(Received July 8, 2008) (Accepted December 5, 2008)

Abstract

The Soil Moisture Experiments conducted in Iowa in the summer c many remote sensing instruments that were used to study the spatial of soil moisture. The sensors used in this paper (a subset of the suit AQUA satellite-based AMSR-E (Advanced Microwave Scanning Earth Observing System) and the aircraft-based PSR C/X (Polarima Radiometer). The SMEX02 design focused on the collection of near brightness temperature observations from each of these instruments

measurements at field- and domain- scale. This methodology provide quantitative analysis of the soil moisture remote sensing potential of a situ comparisons and retrieved soil moisture estimates through the appropriate transfer model. To this end, the two sensors are compared with responding soil moisture.

Keywords: remote sensing, soil moisture, microwave, field experin

[PDF (943K)] [References]

Downlo

To cite this article:

John D. BOLTEN and Venkat LAKSHMI: An Evaluation of Soil I Aircraft and Satellite Passive Microwave Observations During SM Remote Sensing Society of Japan, **29**, **1**, pp.293-300, 2009.