

IASI Validation Studies using Airborne Field Campaign Data

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Measurement system validation is critical for advanced satellite sensors to improve observations of the Earth's atmosphere, clouds, and surface for enabling enhancements in weather prediction, climate monitoring capability, and environmental change detection. Field campaigns including satellite under-flights with well-calibrated FTS sensors aboard high-altitude aircraft are an essential part of the validation task. This presentation focuses on IASI validation studies performed using data from the recently-completed Joint Airborne IASI Validation Experiment (JAIVEx) field campaign. Methodology developed and employed herein for IASI radiance validation will be discussed along with recent results.

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