

Validation of IASI spectral radiances using aircraft underflight data collected during JAIVEx

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Direct airborne validation of radiances from the new IASI interferometer sounder on Metop was successfully performed during the Joint Airborne IASI Validation Experiment (JAIVEx) conducted 14 April - 4 May 2007. The experiment included the NASA WB57 aircraft carrying the UW Scanning HIS, the LaRC NAST-I, and the MIT/LL NAST-Microwave, flown in coordination with the Facility for Airborne Atmospheric Measurements BAe146-301 carrying the ARIES interferometer plus a wide range of in situ instrumentation and dropsondes. This presentation focuses on validation of IASI spectral radiances using the high altitude aircraft observations and a double observed minus calculated analysis technique. Results for various JAIVEx flights will be presented.

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