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Abstract Title: In-Flight Refinement of the Radiometric, Spectral, and Spatial calibration of the Atmospheric Infrared Sounder (AIRS)

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Presentation: Oral

Brief Biography: Hartmut Aumann received his Ph.D. In Space Science from Rice University. He is a senior research scientist and AIRS Project Scientist at JPL.

Abstract Text:

The Atmospheric Infrared Sounder (AIRS) is a space based 3.7-15 micron high spectral resolution radiometer developed for measurement of global atmospheric properties; primarily water vapor and temperature. AIRS launched aboard NASA's Earth Observing System Aqua spacecraft on May 4, 2002 from Vandenberg Air Force Base. This paper describes the performance of the AIRS in-flight radiometric, spectral, and spatial calibration procedures as well as refinements made to the calibration algorithms after evaluating in-flight data.

KEY WORDS: EOS, Aqua, AIRS, Sounder, Calibration