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**Abstract: Challenges and Progress in the  
Intercalibration of Microwave Humidity Sounders**

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Satellite measurements from microwave humidity sounders such as AMSU-B, MHS, and ATMS provide one of the major datasets for atmospheric water vapor. Although, these data are available since 1998 from multiple satellites, because of calibration errors they do not meet the requirements for climate studies. This talk summarizes the advancements and challenges for developing long-term homogenized datasets from these measurements.