

## Expected Accuracy of the Cross-track Infrared Sounder (CrIS) for the US NPOESS

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2 1000 1500 200 wavenumber (cm<sup>-1</sup>)

0.04

## Summary of CrIS Accuracy

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- The absolute calibration of CrIS Radiance is expected to be better than 0.2 K 3-sigma brightness temperature on orbit for all scene temperatures and wavenumbers
- TVAC testing validates this expectation, except for temperatures below 250 K where the Space Target has larger emissivity uncertainty than a true space view

This poster includes independent analysis of CrIS Flight Model 1 thermal vacuum test data performed by the SSEC/UW-Madison under IPO support, and with the help of ITT, NGAS, & other Government contractors (see also

Vancouver OSA, 27-30 April 2009, Tobin et al., HMC1 & Taylor et al., FMA4; Suitland SOAT, 20-21 May 2009, Tobin et al.; SDL SOAT, 9-11 Sept 2009, Revercomb et al.)