

Radiometric Characterization Results for the OrbView-3 Sensor

Stennis Space Center

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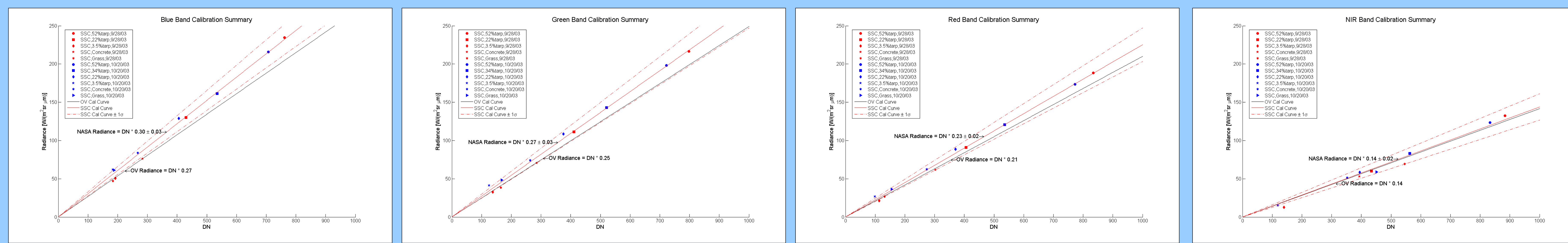
David Aaron, South Dakota State University Satellite Calibration Group & Image Processing Laboratory, Brookings, SD

Kurtis Thome, University of Arizona Remote Sensing Group, Tucson, AZ

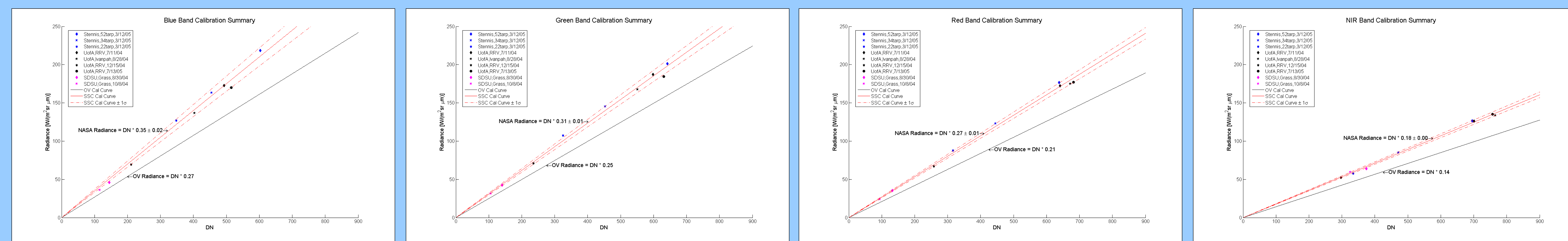
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Correction to the 2004 OrbView Calibration Summaries



2004/2005 OrbView Calibration Summaries



2004/2005 OrbView Results

Bandwidth FWHM (μm)	NASA Team Estimate (W/m ² sr μm DN)	OrbView Provided (W/m ² sr μm DN)	Percent Difference
1 0.450 - 0.520	0.35 ± 0.02	0.269	23.1%
2 0.520 - 0.600	0.31 ± 0.01	0.249	19.7%
3 0.625 - 0.695	0.27 ± 0.01	0.210	22.2%
4 0.760 - 0.900	0.18 ± 0.00	0.142	21.1%

Percent difference is calculated by $(1 - \text{OrbView}/\text{NASA Mean})$

OrbView Temporal Results

Band	NASA Estimate 2004	NASA Estimate 2004/2005 and Percent Change
Blue	0.30 ± 0.03	0.35 ± 0.02 14.3%
Green	0.27 ± 0.03	0.31 ± 0.01 12.9%
Red	0.23 ± 0.02	0.27 ± 0.01 14.8%
NIR	0.14 ± 0.02	0.18 ± 0.01 22.2%