

Interactive
Comment

Interactive comment on “Imager-to-radiometer inflight cross calibration: RSP radiometric comparison with airborne and satellite sensors” by J. McCorkel et al.

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This paper presents a process by which the radiometric scale of two remote sensing systems can be compared. Here RSP and OLI are cross-compared by usage of a spectrometer, in this case AVIRIS. The AVIRIS data are band-averaged using the OLI spectral response functions, then scaled to agree with OLI radiances. This scalar is then applied to the AVIRIS spectra, which is then averaged over the RSP spectral functions. The comparison of this adjusted AVIRIS, band-weighted data, provides the desired comparison.

This study does a careful job of accounting for spatial footprint differences, and us-

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ing only observations with a small scene variability within the RSP footprint. As the purpose of this paper is to present a methodology, it has met its objective.

The question not addressed here is — how well is RSP calibrated? Such a publication would discuss how the RSP scale is determined (discuss the laboratory calibration), as well as the certainty of radiances from the sensor used in the cross-comparison. These topics are not addressed. Also not addressed - the authors state that ground-data were taken at Ivanpah. These also could be used to provide the top-of-atmosphere spectra needed to validate RSP. What follow-on work will there be, if any, in order to validate the RSP radiometric calibration?

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 10361, 2015.

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