

LANDSAT-8 OLI AND TIRS ON-ORBIT PERFORMANCE AND DATA QUALITY

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ABSTRACT:

Landsat-8 was launched on February 11, 2013, continuing the 40 plus year data record of moderate resolution global data coverage. A key aspect of the data continuity is maintaining the high radiometric and geometric data quality. The Landsat Calibration/Validation Team (CVT), a joint USGS and NASA effort, is tasked with maintaining the quality of the data products and documenting the system performance. In almost all respects the Landsat-8 data exceeds performance and data quality requirements by significant margins. The results of the first year of calibration and validation efforts have been highly successful and carefully documented in a special issue of the online Remote Sensing Journal (http://www.mdpi.com/journal/remotesensing/special_issues/landsat8), which should be largely completed by the date of the PECORA symposium. This presentation will review the on-orbit performance of the two Landsat-8 instruments in the context of a summary of contents of the papers in this special issue.

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