

Availability and Status of MISR Geophysical Data Products

Abstract

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The Multi-angle Imaging SpectroRadiometer (MISR) instrument aboard the Terra spacecraft has been collecting Earth imagery since February 2000. MISR contains nine cameras pointed at fixed along-track directions, and acquires images with view angles at the Earth's surface ranging from 70.5° forward of nadir to 70.5° aftward, in four spectral bands. The MISR experiment routinely generates geophysical data products using new algorithms developed specifically to capitalize on MISR's observational strategy. Included among these products are aerosol optical depths and particle types over ocean and land, surface bidirectional reflectances and albedos, stereoscopic cloud-top heights and cloud-tracked winds, and top-of-atmosphere albedos. These products are available to the research community through the NASA Langley Atmospheric Sciences Data Center.

Validation of MISR geophysical products is currently under way by the MISR team using independent data sources such as Aeronet, ARM data, and field campaigns. Algorithm improvements and upgrades based upon detailed analyses of product content and quality checks are also in progress. The scientific research community is also encouraged to participate in the process of insuring that MISR data products are of the highest possible quality, with well understood uncertainties. Feedback to the MISR team is welcome. This poster provides representative examples of MISR products, and describes the current status of the algorithm development and validation efforts.