Overview of MISR Data at the ASDC

The MISR Project – The Multi-angle Imaging SpectroRadiometer (MISR) project measurements are designed to improve our understanding of the Earth's environment and climate. Viewing the sunlit Earth simultaneously at nine widely-spaced angles, MISR provides radiometrically and geometrically calibrated images in four spectral bands at each of the angles.

Data Products – Data products (parameters) include: Georectified Radiance Emissivity, Land Surface, Aerosol, Albedo, Cloud, Cloud Fraction by Altitude, Cloud Motion due to advection, Aerosol Summary, Tropospheric Aerosol Optical Depth, Aerosol Composition and Size, Surface Directional Reflectance factors, Bi-hemispherical Reflectance, Radiometric Camera-by-camera Cloud Mask, TOA/Cloud Stereo Data, TOA/ Cloud Albedo Data, TOA/Cloud Classifiers, Ellipsoid Data, Terrain Data,

- The ASDC Direct Data Download (Earthdata Login required) - https://asdc.larc.nasa.gov/data/MISR
- OpeNDAP Subsetter Tool - https://opendap.larc.nasa.gov/opendap/MISR

Data Read and Display Tools – MISR has several tools for working with the data here: https://asdc.larc.nasa.gov/tools-and-services.

There are some good Tutorials on MISR data in github: https://github.com/nasa/ASDC_Data_and_User_Services/tree/main/MISR and in https://asdc.larc.nasa.gov/documents/misr/misr_workshop.pdf

GIOVANNI is a free, easy-to-use visualization and analysis tool which uses selected MISR datasets (MIL3DAE V4 and MIL3MAE V4): https://disc.sci.gsfc.nasa.gov/giovanni.

We hope this information is useful for you. If you have any questions, please contact us at support-asdc@earthdata.nasa.gov.

NASA Langley ASDC User Support

Preserving, managing, and sharing atmospheric data for the common good