

ASDC is located at NASA's Langley Research Center in Hampton, VA.



National Aeronautics and
Space Administration



NASA's Atmospheric Science Data Center (ASDC)

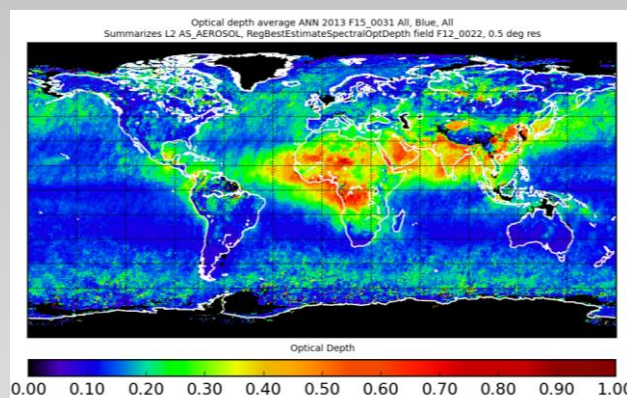
Radiation Budget, Clouds,
Aerosols, Tropospheric Chemistry

ASDC is in the Science Directorate at NASA's Langley Research Center in Hampton, VA. The Science Directorate's Climate Science Branch, Atmospheric Composition Branch, and the Chemistry and Dynamics Branch work with ASDC to study changes in the Earth and its atmosphere. ASDC supports over 50 projects and provides access to more than 1000 archived data sets. These data sets were created from satellite measurements, field experiments, and modeled data products. ASDC projects focus on the Earth science disciplines Radiation Budget, Clouds, Aerosols, and Tropospheric Chemistry.

John M. Kusterer, DAAC Manager

Brandi Quam, Deputy DAAC Manager

- Atmospheric, tropospheric chemistry and radiation budget data holdings derived from satellite observations include: the Clouds and the Earth's Radiant Energy System (CERES), Multi-angle Imaging SpectroRadiometer (MISR) on board NASA's Terra satellite, Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations (CALIPSO), International Satellite Cloud Climatology Project (ISCCP), Stratospheric Aerosol and Gas Experiment III (SAGE III), Measurements of Pollution In The Troposphere (MOPITT) on board Terra, and Tropospheric Emission Spectrometer (TES) on board NASA's Aura satellite.
- Field Campaign data include, holdings from: Deriving Information on Surface conditions from Column and Vertically Resolved Observations Relevant to Air Quality (DISCOVER/AQ), Airborne Multi-angle Imaging SpectroRadiometer (AirMISR) and others.
- Provides sensor-specific data discovery and search tools as well as tools and services for subsetting and visualization of data products.



The MISR Level 2 Products are geophysical measurements derived from the Level 1B2 data. The Top-of-Atmosphere (TOA)/Cloud Products contain measurements of TOA bidirectional reflectance factors, stereoscopically-derived cloud and land (reflecting level) elevation, cloud fraction, cloud texture, and other related parameters.

Distributed more than 780 unique data products during FY2018. More than 2.3 petabytes of data was distributed to over 52,900 customers. Just over 5 petabytes of data were in the archive at the end of FY 2018



ASDC

2 South Wright Street
Building 1268C, Mail Stop 157D
Hampton, VA, 23681-2199
757-864-8656

<https://eosweb.larc.nasa.gov>



earthdata.nasa.gov