## Calibrated Radiance

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- Airborne Multi-angle Imaging SpectroRadiometer (AirMISR) data sets  
- AIRMSPI Level 1B2 V003 New and Reprocessed Data  
- CALIPSO Infrared Imaging Radiometer (IIR) Level 1B radiance data  
- CERES SSF TOA/Surface Fluxes and Clouds, and MISR Ellipsoid and Terrain Radiances data  
- Chesapeake Lighthouse and Aircraft Measurements for Satellites (CLAMS) (AirMISR_CLAMS_2001, CLAMS_ER2_MAS, and CLAMS_CV580_CAR)  
- Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations (CALIPSO) Wide Field Camera (WFC) Level 1B 125 m and 1 km Native Science data and 1 km Registered Science data  
- DSCOVR/Earth Polychromatic Imaging Camera (EPIC) Level 1 data  
- DSCOVR/National Institute of Standards and Technology (NIST) Advanced Radiometer (NISTAR) Level 1 data  
- First ISCCP Regional Experiment (FIRE) data sets  
- International Satellite Cloud Climatology Project (ISCCP) B3 data product  
- MODIS Airborne Simulator (MAS) data sets [from various field campaigns]  
- Tropospheric Emission Spectrometer (TES) L1B Standard and Special Observation products |
|  | **GES DISC** |  

- AIRS/Aqua AMSU-A Geolocated Brightness Temperatures  
- AIRS/Aqua Geolocated Radiiances  
- AIRS/Aqua L2 Cloud Cleared Radiance Product  
- AIRS/Aqua Visible Geolocated Radiances  
- Calibrated, Geolocated OCO-2 Science Spectra, Retrospective Processing  
- MLS Level 1 Radiances from Digital Autocorrelators  
- MLS Level 1 Radiances from Filter Banks for GHz and THz  
- MLS/Aura L1 Microwave Radiiances (118, 190, 240 and 640 GHz, and 2.5 THz)  
- OMI Level 1B UV Global and Zoom-in Geolocated Earthshine Radiances  
- OMI Level 1B VIS Global and Zoom-in Geolocated Earthshine Radiances  
- TRMM 1B11 Microwave Brightness Temperature (TMI) |
|  | **GHRC DAAC** |  

- Advanced Microwave Sounding Unit Swath (AMSU-A) from NOAA-15, NOAA-16, and NOAA-17  
- GPM Ground Validation Advance Microwave Precipitation Radiometer (AMPR) IPHEx  
- GPM Ground Validation Advanced Microwave Precipitation Radiometer (AMPR) MC3E  
- GPM Ground Validation Compact Scanning Millimeter-wave Imaging Radiometer (CoSMIR) MC3E  
- GPM Ground Validation Conical Scanning Millimeter-wave Imaging Radiometer (CoSMIR) GCPEx  
- GPM Ground Validation Conical Scanning Millimeter-wave Imaging Radiometer (CoSMIR) IPHEx  
- GPM Ground Validation Duke Microwave Radiometer (MWR) IPHEx  
- GPM Ground Validation Special Sensor Microwave Imager Sounder (SSMIS) LPVEx  
- NRT AMSR2 Daily L3 6.25 km 89 GHz Brightness Temperature (Tb) Polar Grids |
|  | **LAADS DAAC** |  

- MERIS Full Resolution Full Swath Geolocated and Calibrated TOA Radiance Product  
- MERIS Reduced Resolution Geolocated and Calibrated TOA Radiance Product  
- MODIS/Terra AERONET-based Surface Reflectance Validation Network Product  
- MODIS/Terra and MODIS/Aqua Atmosphere Aeronet subsampling Product  
- MODIS/Terra and MODIS/Aqua Atmosphere BELMANIP subsampling Product  
- MODIS/Terra and MODIS/Aqua Atmosphere FluxNet subsampling Product  
- MODIS/Terra and MODIS/Aqua Calibrated Radiances at 1 km, 500 m, and 250 m plus subsets at 5 km spatial resolution  
- OLCI/SENTINEL-3A L1 Full Resolution Top of Atmosphere Reflectance Product  
- OLCI/SENTINEL-3A L1 Reduced Resolution Top of Atmosphere Reflectance Product  
- SLSTR/SENTINEL-3A L1 Full Resolution Top of Atmosphere Brightness, Temperatures, and Radiances Product |
| **Calibrated Data/Imagery from Passive Sensors, Radiance, Brightness Temperature** (continued) | **LAADS DAAC** | • VIIRS/NPP Day/Night Band 6-Min L1 Swath SDR 375 m  
• VIIRS/NPP Imagery Resolution 6-Min L1 Swath SDR 375 m  
• VIIRS/NPP Moderate Resolution 6-Min L1 Swath SDR and GEO 750 m |
| **LP DAAC** | https://lpdaac.usgs.gov | • ASTER L1B Registered Radiance at the Sensor  
• ASTER Level 1 Precision Terrain Corrected Registered At-Sensor Radiance  
• ASTER Level 2 Surface Reflectance SWIR Crosstalk-Corrected  
• ASTER On-Demand L2 Surface Radiance |
| **NSIDC DAAC** | https://nsidc.org/daac | • AMSR-E/Aqua Daily EASE-Grid Brightness Temperatures  
• AMSR-E/Aqua Global Quarter-Degree Gridded Brightness Temperatures  
• AMSR-E/Aqua L2A Global Swath Spatially-Resampled Brightness Temperatures (Tb)  
• AMSR/ADEOS II L2A Global Swath Spatially-Resampled Brightness Temperatures  
• Aquarius L3 Weekly Polar-Gridded Brightness Temperature and Sea Surface Salinity  
• DMSP SSM/I-SSMIS Pathfinder Daily Polar Gridded Brightness Temperatures  
• DMSP SSM/I-SSMIS Pathfinder Near Real Time and Daily EASE-Grid Brightness Temperatures  
• MEaSUREs Calibrated Enhanced-Resolution Passive Microwave Daily EASE-Grid 2.0 Brightness Temperature ESDR  
• Nimbus High Resolution Infrared Radiometer Digital Swath Data Level 1  
• SMAP Enhanced L1C Radiometer Half-Orbit 9 km EASE-Grid Brightness Temperatures  
• SMAP L1B Radiometer Half-Orbit Time-Ordered Brightness Temperatures  
• SMAP L1C Radiometer Half-Orbit 36 km EASE-Grid Brightness Temperatures |
| **ORNL DAAC** | http://daac.ornl.gov | • BOREAS Level-3B AVHRR-LAC Imagery; Scaled at-Sensor Radiance in LGSOWG Format  
• BOREAS RSS-14 GOES-7 Level-1A Visible, Infrared, and Water Vapor Images  
• SAFARI 2000: Solar Spectral Flux Radiometer Data, Southern Africa |
| **Sigma-0/Backscatter** | **ASDC** | https://eosweb.larc.nasa.gov | • CALIPSO Level 1b data  
• Cloud-Aerosol Transport System (CATS) Level 1B Data |
| **ASF DAAC** | http://www.asf.alaska.edu | • AMM-1 and MAMM SAR Image Mosaics of Antarctica 100m (RADARSAT-1)  
• Arctic MEaSUREs sea ice dynamics products (RADARSAT-1)  
• ASF Data Pool of processed SAR data and images (Sentinel-1A, Sentinel-1B, SMAP, Seasat, ALOS PALSAR, JERS-1, RADARSAT-1, ERS-1, ERS-2, UAVSAR, AIRSAR)  
• UAVSAR Repeat Pass Interferometric products |
| **NSIDC DAAC** | https://nsidc.org/daac | • Co-Registered AMSR-E, QuikSCAT, and WMO Data  
• MEaSUREs Greenland Ice Sheet Mosaics from SAR Data  
• MEaSUREs Greenland Image Mosaics from Sentinel-1A and -1B  
• SMAP L2 Radar Half-Orbit 3 km EASE-Grid Soil Moisture  
• SMAP L2 Radar/Radiometer Half-Orbit 9 km EASE-Grid Soil Moisture  
• SMAP L3 Radar Global Daily 3 km EASE-Grid Soil Moisture  
• SMAP L3 Radar Northern Hemisphere Daily 3 km EASE-Grid Freeze/Thaw State  
• SMAP L3 Radar/Radiometer Global Daily 9 km EASE-Grid Soil Moisture |
| **PO.DAAC** | http://podaac.jpl.nasa.gov | • BYU Daily Browse Images of NSCAT, QuikSCAT, and SeaWinds Sigma-0 Measurements  
• BYU Enhanced Resolution Images of Seasat, ERS, and NSCAT Sigma-0 Measurements  
• BYU Enhanced Resolution Images of SeaWinds on QuikSCAT and ADEOS-II Sigma-0 Measurements  
• BYU Local-Time-of-Day Browse Images of SeaWinds on QuikSCAT and ADEOS-II Sigma-0 Measurements  
• QuikSCAT Level 1C Averaged Sigma-0 and Winds from Non-spinning Antenna  
• Rapidscat Level 1B and 2A |

**Solar Radiance**
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<th>Physical Properties</th>
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| **Total Solar Irradiance** | ASDC https://eosweb.larc.nasa.gov | - Activity Cavity Radiometer Irradiance Monitor (ACRIM) II and III daily data sets  
- Clouds and the Earth's Radiant Energy System (CERES) ERBE-like Monthly Geographic Averages (ES-4)  
- Earth Radiation Budget Experiment (ERBE) Total Solar Irradiance and Solar Constants  
- ERBE-like Instantaneous TOA Estimates (ES-8)  
- ERBE-like Monthly Regional Averages (ES-9) |
- SORCE Level 3 Total Solar Irradiance 6-Hour Means  
- SORCE Level 3 and Level 4 Total Solar Irradiance (TSI) products  
- TCTE Level 3 Total Solar Irradiance Daily Means  
- TCTE Level 3 Total Solar Irradiance 6-Hour Means |
| **Ultraviolet Spectral Irradiance** | ASDC https://eosweb.larc.nasa.gov | - CERES Synoptic Radiative Fluxes and Clouds (SYN1deg) Products [from Terra, Aqua] (1deg Regional, Zonal, and Global Spatial; and 3 Hour, Monthly 3 Hour, and Monthly Temporal Resolutions) |
| | GES DISC http://disc.sci.gsfc.nasa.gov | - OMI/Aura Surface UV Irradiance Daily L3 Global 1.0 x 1.0 deg Grid  
- OMI/Aura Surface UV Irradiances 1-orbit L2 Swath 13 x 24 km  
- SORCE Level 3 Solar Spectral Irradiance Daily Means  
- UARS SOLSTICE Level 3BS Daily Solar Data (Daily mean solar spectra corrected for instrument degradation, plus additional solar parameters)  
- UARS SUSIM Level 3BS Daily Solar Data (Daily mean solar spectra corrected for instrument degradation, plus additional solar parameters) |

**ASDC** Atmospheric Science Data Center (ASDC)  
**ASF DAAC** Alaska Satellite Facility DAAC  
**GES DISC** Goddard Earth Sciences Data and Information Services Center  
**GHRC DAAC** Global Hydrology Resource Center DAAC  
**LAADS DAAC** Level 1 and Atmosphere Archive and Distribution System DAAC  
**LP DAAC** Land Processes DAAC  
**NSIDC DAAC** National Snow and Ice Data Center DAAC  
**ORNL DAAC** Oak Ridge National Laboratory DAAC  
**PO.DAAC** Physical Oceanography DAAC