



EARTH SYSTEM SCIENCE

Data and Services

LAND Data Set Reference Sheet

December 2008

Physical Properties	Data Center	Selected Data Sets and Data Collections <i>Complete data set listings available through each individual data center. For more information about NASA's Earth Observing System Data and Information System (EOSDIS) data centers, see: http://nasadaacs.eos.nasa.gov</i>
Land Cover & Land Use Change	ASDC http://eosweb.larc.nasa.gov	<ul style="list-style-type: none"> Multi-angle Imaging SpectroRadiometer (MISR) Level 1B2 Terrain Data, Level 2 Surface Parameters, and Level 3 Component Global Land (daily, monthly, quarterly, and yearly) Products Biomass Burning data set
	ASF DAAC http://www.asf.alaska.edu	<ul style="list-style-type: none"> RADARSAT-1, ERS-1, ERS-2, JERS-1 and PALSAR SAR images JERS-1 SAR Image Mosaics [multiple-CD sets containing composited images of rain forests in 1) the Amazon region, 2) Central American and South American Pantanal regions, 3) Africa, and 4) Southeast Asia] JERS-1 SAR Global Boreal Forest Mapping Project: Boreal North America, Winter 1997-98 and Summer 1998, DVD ROM
	LP DAAC http://lpdaac.usgs.gov	<ul style="list-style-type: none"> ASTER L1B Registered Radiance at the Sensor ASTER Level 2 Surface Reflectance ASTER Level 2 Surface Reflectance SWIR Crosstalk-Corrected ASTER Level 2 Surface Radiance ASTER Level 2 Surface Radiance SWIR Crosstalk-Corrected ASTER Level 3 Digital Elevation Model ASTER Level 3 Orthorectified Images MODIS/Terra Land Cover Type Yearly L3 Global 1km SIN Grid MODIS/Terra Land Cover Type Yearly L3 Global 0.05Deg CMG MODIS/Terra Land Cover Dynamics Yearly L3 Global 1km SIN Grid MODIS/Terra and MODIS/Aqua Vegetation Indices 16-Day L3 Global 250m SIN Grid MODIS/Terra and MODIS/Aqua Vegetation Indices 16-Day L3 Global 500m SIN Grid MODIS/Terra and MODIS/Aqua Vegetation Indices 16-Day L3 Global 1km SIN Grid MODIS/Terra and MODIS/Aqua Vegetation Indices 16-Day L3 Global 0.05Deg CMG MODIS/Terra and MODIS/Aqua Vegetation Indices Monthly L3 Global 1km SIN Grid MODIS/Terra and MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG MODIS/Terra and MODIS/Aqua Surface Reflectance Daily L2G Global 250m SIN Grid MODIS/Terra and MODIS/Aqua Surface Reflectance Daily L2G Global 1km and 500m SIN Grid MODIS/Terra and MODIS/Aqua Surface Reflectance Daily L3 Global 0.05Deg CMG MODIS/Terra and MODIS/Aqua Surface Reflectance 8-Day L3 Global 250m SIN Grid MODIS/Terra and MODIS/Aqua Surface Reflectance 8-Day L3 Global 500m SIN Grid
Soils	ORNL DAAC http://daac.ornl.gov	<ul style="list-style-type: none"> BOREAS Data Sets: BOREAS AFM-12 1 km AVHRR Seasonal Land Cover Classification; BOREAS TE-18 Landsat TM Physical Classification Image of the NSA Remote Sensing Data: MODIS Land Cover product (MOD12Q1) subsetted to 7 X 7 km for 1,147 field sites and presented in ASCII format SAFARI 2000: MODIS L3 albedo and land cover data, Southern Africa LBA: Landsat TM and orthorectified ETM+ for legal Amazonia, and Land Use/Land Cover time series Ji_Parana Basin, Brazil 1986-2001, and Forest Structure Measurements for GLAS Validation: Santarem 2004 Characteristics of African Savanna Biomes for Determining Woody Cover
	NSIDC DAAC http://nsidc.org/daac	<ul style="list-style-type: none"> Soil Moisture Experiment (SMEX) and Cold Climate Processes Experiment (CLPX) Data AMSR-E/Aqua Daily L3 Surface Soil Moisture, Interpretive Parameters, & QC EASE-Grids AMSR-E/Aqua L2B Surface Soil Moisture, Ancillary Parameters, & QC EASE-Grids
	ORNL DAAC http://daac.ornl.gov	<ul style="list-style-type: none"> Soil Collection Data Sets: Global Gridded Surfaces of Selected Soil Characteristics (IGBP-DIS); Global Data Set of Derived Soil Properties, 0.5-Degree Grid (ISRIC-WISE)

Vegetation Dynamics	ASDC http://eosweb.larc.nasa.gov	<ul style="list-style-type: none"> • MISR Level 2 Surface Parameters and Level 3 Component Global Land (daily, monthly, quarterly, and yearly) Products • Clouds and the Earth's Radiant Energy System (CERES) Synoptic Radiative Fluxes and Clouds (SYN), Monthly Regional Radiative Fluxes and Clouds (AVG), and Monthly Zonal and Global Radiative Fluxes and Clouds (ZAVG) Products [from Terra]
	LP DAAC http://lpdaac.usgs.gov	<ul style="list-style-type: none"> • ASTER L1B Registered Radiance at the Sensor • ASTER Level 2 Surface Reflectance • ASTER Level 2 Surface Reflectance SWIR Crosstalk-Corrected • ASTER Level 3 Digital Elevation Model • ASTER Level 3 Orthorectified Images • ASTER Level 2 Surface Radiance • ASTER Level 2 Surface Radiance SWIR Crosstalk-Corrected • MODIS/Terra and MODIS/Aqua Leaf Area Index/FPAR 8-Day L4 Global 1km SIN Grid • MODIS/Terra and MODIS/Aqua Gross Primary Productivity 8-day L4 Global 1km SIN Grid • MODIS/Terra and MODIS/Aqua Vegetation Indices 16-Day L3 Global 250m SIN Grid • MODIS/Terra and MODIS/Aqua Vegetation Indices 16-Day L3 Global 500m SIN Grid • MODIS/Terra and MODIS/Aqua Vegetation Indices 16-Day L3 Global 1km SIN Grid • MODIS/Terra and MODIS/Aqua Vegetation Indices 16-Day L3 Global 0.05Deg CMG • MODIS/Terra and MODIS/Aqua Vegetation Indices Monthly L3 Global 1km SIN Grid • MODIS/Terra and MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG • MODIS/Terra Land Cover Dynamics Yearly L3 Global 1km SIN Grid
	ORNL DAAC http://daac.ornl.gov	<ul style="list-style-type: none"> • Field Campaign Vegetation Indices and Biology Data Sets: Photosynthesis, Biomass, Leaf Chlorophyll, and Leaf Area Index • Remote Sensing Data: MODIS Vegetation Dynamics Products [LAI/fPAR (MOD15A2), ENVI (MOD13A2), and GPP (MOD17A2)] subsetted to 7 X 7 km for 1,147 field sites worldwide and presented in ASCII format • Vegetation Collection: Net Primary Productivity data sets; Biomass Allocation and Growth Data of Seeded Plants; and Leaf Area Index Maps at 30-m Valeri site, Larose Canada • Model Archive: Archive of Biogeochemical Models [latest addition: MAPSS (Mapped Atmosphere-Plant-Soil System Model) Version 1.0] • BigFoot Field Data for North American Sites, 1999-2003
Surface Temperature	ASDC http://eosweb.larc.nasa.gov	<ul style="list-style-type: none"> • Surface Radiation Budget (SRB) data sets (daily and monthly) • International Satellite Cloud Climatology Project (ISCCP) D1 and D2 data products • CERES Clouds and Radiative Swath (CRS), Monthly Gridded Single Satellite Fluxes and Clouds (FSW), Monthly Gridded TOA/Surface Fluxes and Clouds (SFC), Monthly TOA/Surface Averages (SRBAVG), Single Scanner Footprint TOA/Surface Fluxes and Clouds (SSF), SYN, AVG, and ZAVG Products [from TRMM, Terra, and Aqua]
	GES DISC http://disc.gsfc.nasa.gov	<ul style="list-style-type: none"> • TOVS Pathfinder Path A Atmospheric and Surface Parameters • A Multi-year Global Analysis Employing the Goddard EOS (GEOS) Data Assimilation System • Goddard DAAC Climatology Interdisciplinary Data Collection
	LP DAAC http://lpdaac.usgs.gov	<ul style="list-style-type: none"> • ASTER Level 2 Surface Kinetic Temperature • ASTER Level 3 Digital Elevation Model • ASTER Level 3 Orthorectified Images • ASTER Level 2 Surface Emissivity • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity 5-Min L2 Swath 1km • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity Daily L3 Global 1km SIN Grid • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity Daily L3 Global 6km SIN Grid • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity Daily L3 Global 0.05Deg CMG • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity 8-Day L3 Global 1km SIN Grid • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity 8-Day L3 Global 0.05Deg CMG • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG • MODIS/Terra and MODIS/Aqua Thermal Anomalies/Fire 5-Min L2 Swath 1km • MODIS/Terra and MODIS/Aqua Thermal Anomalies/Fire Daily L3 1km SIN Grid • MODIS/Terra and MODIS/Aqua Thermal Anomalies/Fire 8-Day L3 1km SIN Grid
	NSIDC DAAC http://nsidc.org/daac	<ul style="list-style-type: none"> • AVHRR Polar Pathfinder Twice-Daily 1.25 km, 5 km, and 25 km EASE-Grid Composites [Polar Regions] • AMSR-E/Aqua Daily L3 Surface Soil Moisture, Interpretive Parameters, & QC EASE-Grids • AMSR-E/Aqua L2B Surface Soil Moisture, Ancillary Parameters, & QC EASE-Grids
	ORNL DAAC http://daac.ornl.gov	<ul style="list-style-type: none"> • BOREAS Data Set: BOREAS TE-11 Surface Meteorological Data • SAFARI 2000 TOVS Surface and Atmospheric Data • Remote Sensing Data Set: MODIS Land Surface Temperature (MOD11A2) subsetted to 7 x 7 km for 1,147 sites worldwide and presented in ASCII format • Climate Collection Data Set: Global Monthly Climatology for the Twentieth Century (New et al.)

Gravity Gravity Field Models, Measurements	CDDIS http://cddis.gsfc.nasa.gov	<ul style="list-style-type: none"> Ground Network/Satellite Measurements: Daily, hourly, and sub-hourly code and phase observations from GNSS ground network; Daily and hourly files of round trip time of flight from satellite laser ranging (SLR) ground network; Time-tagged range-rate measurements from DORIS ground network; Station positions and velocities from GNSS, SLR, VLBI and DORIS ground networks
	PO.DAAC http://podaac.jpl.nasa.gov	<ul style="list-style-type: none"> GRACE Level 2 Monthly Gravity Field Estimates Surface Mass Density Changes from GRACE (monthly mass grids of water equivalent thickness)
Surface Topography Elevation, slope, DEMs	ASF DAAC http://www.asf.alaska.edu	<ul style="list-style-type: none"> RADARSAT-1, ERS-1, ERS-2, JERS-1 and PALSAR SAR images
	CDDIS http://cddis.gsfc.nasa.gov	<ul style="list-style-type: none"> Ground Network/Satellite Measurements: Daily, hourly, and sub-hourly code and phase observations from GNSS ground network; Daily and sub-daily GNSS satellite orbits and clocks; Daily and hourly files of round trip time of flight from satellite laser ranging (SLR) ground network; Time-tagged range-rate measurements from DORIS ground network Station positions and velocities from GNSS, SLR, VLBI and DORIS ground networks
	LP DAAC http://lpdaac.usgs.gov	<ul style="list-style-type: none"> ASTER Level 3 Digital Elevation Model ASTER Level 3 Orthorectified Images
	NSIDC DAAC http://nsidc.org/daac	<ul style="list-style-type: none"> Radarsat Antarctic Mapping Project Digital Elevation Model Version 2 RAMP AMM-1 SAR Image Mosaic of Antarctica GLAS/ICESat L2 Global Land Surface Altimetry Data GLAS/ICESat L1B Global Elevation Data Greenland 5 km DEM, Ice Thickness, and Bedrock Elevation Grids Antarctic 5-km Digital Elevation Model from ERS-1 Altimetry MODIS Mosaic of Antarctica (MOA) Image Map GLAS/ICESat 500 m Laser Altimetry Digital Elevation Model of Antarctica GLAS/ICESat 1 km Laser Altimetry Digital Elevation Model of Greenland
	ORNL DAAC http://daac.ornl.gov	<ul style="list-style-type: none"> FLUXNET, MODIS ASCII Subset, and Net Primary Productivity (NPP) site elevation and other topographic feature extraction with WebGIS
Fire Occurrence Extent, thermal anomalies	GES DISC http://disc.gsfc.nasa.gov	<ul style="list-style-type: none"> TRMM/TSDIS Fire Products (Daily Hot Spot Image and Monthly Composite Map of Fire Counts)
	LP DAAC http://lpdaac.usgs.gov	<ul style="list-style-type: none"> ASTER Level 2 Surface Kinetic Temperature ASTER Level 2 Brightness Temperature at the Sensor ASTER Level 2 Surface Emissivity ASTER Level 2 Surface Radiance ASTER Level 2 Surface Radiance SWIR Crosstalk MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity 5-Min L2 Swath 1km MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity Daily L3 Global 1km SIN Grid MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity Daily L3 Global 6km SIN Grid MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity Daily L3 Global 0.05Deg CMG MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity 8-Day L3 Global 1km SIN Grid MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity 8-Day L3 Global 0.05Deg CMG MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG MODIS/Terra and MODIS/Aqua Thermal Anomalies/Fire 5-Min L2 Swath 1km MODIS/Terra and MODIS/Aqua Thermal Anomalies/Fire Daily L3 1km SIN Grid MODIS/Terra and MODIS/Aqua Thermal Anomalies/Fire 8-Day L3 1km SIN Grid MODIS/Terra and MODIS/Aqua Surface Reflectance Daily L2G Global 250m SIN Grid MODIS/Terra and MODIS/Aqua Surface Reflectance Daily L2G Global 1km and 500m SIN Grid MODIS/Terra and MODIS/Aqua Surface Reflectance Daily L3 Global 0.05Deg CMG MODIS/Terra and MODIS/Aqua Surface Reflectance 8-Day L3 Global 250m SIN Grid MODIS/Terra and MODIS/Aqua Surface Reflectance 8-Day L3 Global 500m SIN Grid MODIS/Terra and MODIS/Aqua Burned Area Monthly L3 Global 500m SIN Grid
	ORNL DAAC http://daac.ornl.gov	<ul style="list-style-type: none"> SAFARI 2000 Data Sets: ASTER and MODIS Fire Data Comparison; Emissions and MODIS Burned Areas LBA: Characterization of Vegetation Fire Dynamics for Brazil 2001-2003, and Forest Structure Measurements for GLAS Validation: Santarem 2004 Global Fire Emissions Database, Version 2.1 (GFEDv2.1)
Solid Earth Earth Orientation Parameters (EOP), Crustal Dynamics, Geodesy	CDDIS http://cddis.gsfc.nasa.gov	<ul style="list-style-type: none"> Daily and weekly Earth Orientation Parameters (EOP) - polar motion and rates, length-of-day values, nutation) derived from GNSS, SLR, VLBI, and DORIS ground network measurements Station positions and velocities from GNSS, SLR, VLBI and DORIS ground networks GNSS Data from National Geospatial-Intelligence Agency (NGA) Sites

Volcanic Effects Frequency of occurrence, thermal anomalies, impact	ASDC http://eosweb.larc.nasa.gov	<ul style="list-style-type: none"> • MISR Level 2 Aerosol Parameters, Level 2 TOA/Cloud Stereo Parameters, and Level 3 Component Global Aerosol Daily Product • Stratospheric Aerosol and Gas Experiment (SAGE) II data set • SAGE III Level 2 Solar Event Species Profiles
	LP DAAC http://lpdaac.usgs.gov	<ul style="list-style-type: none"> • ASTER Level 2 Surface Kinetic Temperature • ASTER Level 2 Brightness Temperature at the Sensor • ASTER Level 2 Surface Emissivity • ASTER Level 2 Surface Radiance • ASTER Level 2 Surface Radiance SWIR Crosstalk-Corrected • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity 5-Min L2 Swath 1km • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity Daily L3 Global 1km SIN Grid • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity Daily L3 Global 6km SIN Grid • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity Daily L3 Global 0.05Deg CMG • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity 8-Day L3 Global 1km SIN Grid • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity 8-Day L3 Global 0.05Deg CMG • MODIS/Terra and MODIS/Aqua Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG • MODIS/Terra and MODIS/Aqua Thermal Anomalies/Fire 5-Min L2 Swath 1km • MODIS/Terra and MODIS/Aqua Thermal Anomalies/Fire Daily L3 1km SIN Grid • MODIS/Terra and MODIS/Aqua Thermal Anomalies/Fire 8-Day L3 1km SIN Grid • MODIS/Terra and MODIS/Aqua Surface Reflectance Daily L2G Global 250m SIN Grid • MODIS/Terra and MODIS/Aqua Surface Reflectance Daily L2G Global 1km and 500m SIN Grid • MODIS/Terra and MODIS/Aqua Surface Reflectance Daily L3 Global 0.05Deg CMG • MODIS/Terra and MODIS/Aqua Surface Reflectance 8-Day L3 Global 250m SIN Grid • MODIS/Terra and MODIS/Aqua Surface Reflectance 8-Day L3 Global 500m SIN Grid
Soil Wetness Soil Moisture	GES DISC http://disc.gsfc.nasa.gov	<ul style="list-style-type: none"> • A Multi-year Global Analysis Employing the Goddard EOS (GEOS) Data Assimilation System • Four-dimensional Assimilated Dataset for the TOGA COARE Intensive Observing Period (IOP) • Global Land Data Assimilation System (GLDAS) Model Products
	NSIDC DAAC http://nsidc.org/daac	<ul style="list-style-type: none"> • AMSR-E/Aqua Daily L3 Surface Soil Moisture, Interpretive Parameters, & QC EASE-Grids • AMSR-E/Aqua L2B Surface Soil Moisture, Ancillary Parameters, & QC EASE-Grids • SMEX02 Soil Moisture Validation Data Sets
	ORNL DAAC http://daac.ornl.gov	<ul style="list-style-type: none"> • BOREAS Data Set: BOREAS HYD-06 Ground Gravimetric Soil Moisture • FIFE Data Set: Soil Moisture Gravimetric Data

ASDC Atmospheric Science Data Center

ASF DAAC Alaska Satellite Facility DAAC

CDDIS Crustal Dynamics Data Information System

GES DISC Goddard Space Flight Center (GSFC) Earth Sciences Data and Information Services Center (DISC)

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

Produced by:
Earth Science Data and Information System (ESDIS) Project
Code 423
Goddard Space Flight Center
Greenbelt, MD 20771

For more information, please contact outreach@eos.nasa.gov