



EARTH SYSTEM SCIENCE

Data and Services

HUMAN DIMENSIONS *Data Set Reference Sheet*

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Physical Properties	Data Center	Selected Data Sets and Data Collections <i>Complete data set listings available through each individual data center. For information about NASA's Earth Observing System Data and Information System (EOSDIS) data centers, see: https://earthdata.nasa.gov</i>
Biodiversity & Ecosystems	ASF DAAC http://www.asf.alaska.edu	<ul style="list-style-type: none"> ASF Data Pool of processed SAR data and images (Sentinel-1A, SMAP, Radiometrically Terrain Corrected Products, Seasat, ALOS-1 PALSAR, JERS-1, RADARSAT-1, ERS-1, ERS-2, UAVSAR, AIRSAR, AirMOSS) Global Boreal Forest Mapping Project, JERS-1 SAR image mosaics of Boreal North America, Winter 1997-98 and Summer 1998 Global Rainforest Mapping Project, JERS-1 SAR image mosaics of rain forests in 1) the Amazon region, 2) Central American and South American Pantanal regions, 3) Africa, and 4) Southeast Asia MEaSURES Wetlands Extent and Inundated Wetlands Time Series SAR Data for Terrestrial Ecologists (PALSAR GeoTIFF subsets of 42 flux tower locations)
	ORNL DAAC http://daac.ornl.gov	<ul style="list-style-type: none"> Geoecology: County-level environmental data for the United States 1964-1979 Global N Cycle Fluxes and N₂O Mixing Ratios Originating from Human Activity
	SEDAC http://sedac.ciesin.columbia.edu	<ul style="list-style-type: none"> Anthropogenic Biomes - 21 anthropogenic biomes based on population density, land use, biota, climate, terrain and geology for the years 1700, 1800, 1900 and 2000 Environmental Treaty Texts - Full text of more than 140 international environmental agreements Global Mangrove Forests Distribution, v1- a compilation of the extent of mangroves forests of the world, circa 2000 Gridded Species Distribution - 30 arc-second resolution data available for global mammal and amphibian richness grids Human Appropriation of Net Primary Productivity (HANPP) - data and maps for global net primary productivity, human appropriation of NPP and HANPP expressed as a percent of NPP Last of the Wild, v2 - Three data sets depicting human influence on terrestrial ecosystems using data sets compiled on or around 2000
Climate Change	ASF DAAC http://www.asf.alaska.edu	<ul style="list-style-type: none"> 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, SMAP, Radiometrically Terrain Corrected Products, Seasat, ALOS-1 PALSAR, JERS-1, RADARSAT-1, ERS-1, ERS-2, UAVSAR, AIRSAR, AirMOSS) International Polar Year SAR Datasets
	NSIDC DAAC http://nsidc.org/daac	<ul style="list-style-type: none"> When the Weather is Uggianaqtuq: Inuit Observations of Environmental Change
	ORNL DAAC http://daac.ornl.gov	<ul style="list-style-type: none"> Daymet: Daily, Monthly, and Annual Climate Summaries on a 1-km Grid for North America, Version 2 ISLSCP II Climate Research Unit CRU05 Monthly Climate Data - 11 climate variables from 1961-1990 ISLSCP II CRU05 Climate Time Series for Global Land Areas, 1986-1995 VEMAP 2: Monthly Ecosystem Model Responses to U.S. Climate Change, 1994-2100 VEMAP 2: Annual Ecosystem Model Responses to U.S. Climate Change, 1994-2100
	SEDAC http://sedac.ciesin.columbia.edu	<ul style="list-style-type: none"> Anthropogenic Biomes - 21 anthropogenic biomes based on population density, land use, biota, climate, terrain and geology for the years 1700, 1800, 1900 and 2000 Environmental Treaty Texts - Full text of more than 140 international environmental agreements Gridded Species Distribution - 30 arc-second resolution data available for global mammal and amphibian richness grids Human Appropriation of Net Primary Productivity (HANPP) - data and maps for global net primary productivity, human appropriation of NPP and HANPP expressed as a percent of NPP

Human & Environmental Health	ORNL DAAC http://daac.ornl.gov	<ul style="list-style-type: none"> • A Global Database of Gas Fluxes from Soils after Rewetting or Thawing, Version 1.0 • CMS: Atmospheric Methane Concentrations and Prior Emissions, Boston, MA, 2012-2014 • CMS: Carbon Fluxes from Global Agricultural Production and Consumption, 2005-2011 • CMS: DARTE Annual On-road CO2 Emissions on a 1-km Grid, Conterminous USA, 1980-2012 • ISLSCP II Edgar 3 Gridded Greenhouse and Ozone Precursor Gas Emissions • NACP Regional: National Greenhouse Gas Inventories and Aggregated Gridded Model Data
	SEDAC http://sedac.ciesin.columbia.edu	<ul style="list-style-type: none"> • Environmental Performance Index - A collection of performance indicators of countries tracked across policy categories covering both environmental public health and ecosystem vitality. Available for 2006, 2008, 2010, 2012 and 2014 • Environmental Sustainability Index - A measure of overall progress towards environmental sustainability. A report, underlying data, and associated maps for the Pilot 2000, 2001, 2002 and 2005 versions • Environmental Treaties and Resource Indicators (ENTRI) - Searchable relational database containing international environmental treaties, treaty summaries, treaty status files and natural resource indicators • Global Annual PM2.5 Grids from MODIS, MISR and SeaWiFS Aerosol Optical Depth (AOD), v1 • Global Distribution of Poverty - A collection of subnational, spatially explicit poverty data sets for selected proxy measures of poverty at global and national scales • Indicators of Coastal Water Quality - Chlorophyll-a concentrations derived from NASA's Sea-viewing Wide Field-of-view Sensor (SeaWiFS) • Natural Disaster Hotspots: A Global Risk Analysis - A set of global geospatial data on six major natural hazards and associated risks of mortality and economic loss • Superfund Site Footprints - An assessment of populations living in proximity to U.S. Superfund National Priorities List (NPL) sites
Population & Land Use	ASF DAAC http://www.asf.alaska.edu	<ul style="list-style-type: none"> • ASF Data Pool of processed SAR data and images (Sentinel-1A, SMAP, Radiometrically Terrain Corrected Products, Seasat, ALOS-1 PALSAR, JERS-1, RADARSAT-1, ERS-1, ERS-2, UAVSAR, AIRSAR, AirMOSS) • Global Rainforest Mapping Project
	LP DAAC https://lpdaac.usgs.gov	<ul style="list-style-type: none"> • ASTER L1B Registered Radiance at the Sensor
	SEDAC http://sedac.ciesin.columbia.edu	<ul style="list-style-type: none"> • Anthropogenic Biomes - 21 anthropogenic biomes based on population density, land use, biota, climate, terrain and geology for the years 1700, 1800, 1900 and 2000 • China Dimensions Data Collection - Includes digital administrative boundaries, fundamental GIS layers, county-level data on population, agriculture, economics and hospitals • Energy Infrastructure - Population exposure estimates in proximity to nuclear power plants by point locations and country-level aggregates • Global Agricultural Lands - Proportion of land area used as cropland (land used for the cultivation of food and pasture (land used for grazing) in the year 2000 • Global Distribution of Poverty - maps, spatial data and tabular data of global poverty. Infant mortality and malnutrition data available globally. Higher-resolution consumption and basic needs data available for 28 countries • Global Estimated Net Migration Grids by Decade, v1 - Estimates of net migration (in-migration minus out migration) at half-degree and 30 arc-second spatial resolution for the 1970s, 1980s and 1990s • Global Fertilizer and Manure, v1 Data Collection - Nitrogen (N) and Phosphorous (P) application rates for both fertilizer and manure based on global crop and livestock data • Global Reservoir and Dam (GRanD), v1 - Information on reservoirs and associated dams, such as dam and impounded river names, primary use, nearest city, height, area and volume of reservoir, and year of construction (or commissioning) • Global Roads Open Access Data Set, v1: Globally consistent, spatially accurate, topologically integrated global roads • Global Rural-Urban Mapping Project (GRUMP), v1 - Includes 30 arc-second population grids, human settlements and urban extents • Gridded Population of the World (GPW), v4 - Population count and density estimates at 30 arc-second resolution for 2000, 2005, 2010, 2015, and 2020 • Low Elevation Coastal Zone Urban-Rural Estimates - maps and tabular data of country-level estimates of urban, rural and total population and land area in low elevation coastal zones • Population, Landscape, and Climate Estimates (PLACE), v3 - National level aggregations of biome, climate, coastal proximity, elevation, and population density data for 1990, 2000, and 2010 • U.S. Census Grids 1990 and 2000 - data sets include population counts plus a wide variety of socioeconomic characteristics • Urban Landsat: Cities from Space - Landsat IR/visible imagery for 78 urban areas, and data for 28 urban locations around the world

ASF DAAC Alaska Satellite Facility DAAC

LP DAAC Land Processes DAAC

NSIDC DAAC National Snow and Ice Data Center DAAC

ORNL DAAC Oak Ridge National Laboratory DAAC

SEDAC Socioeconomic Data and Applications Data Center

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