Environmental Data Sources

Where to find data for your environmental project

*Created by Kyle Monahan, September 2018*

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## Introduction

These data sources have been collected and collated from the following sources:

* Tufts Data Lab website: [datalab.tufts.edu](http://datalab.tufts.edu/)
* National Center for Ecological Analysis and Synthesis (NCEAS): <https://www.nceas.ucsb.edu/scicomp/data>
* Tisch Library Social Science Data and Statistics Resources <https://researchguides.library.tufts.edu/c.php?g=249153&p=5455468>
* Datasets collected by Carolyn Talmadge, Senior GIS Specialist, TTS
* Datasets collected and curated by the author of this document

## How to search this document

You can navigate through these options by either using the **Table of Contents** feature in Word to search through the relevant categories, or by using *Command + F* on Mac or *Control + F* on Windows to find a word or phrase of interest.

## Tufts Subscriptions and Holdings

As a Tufts student, you’re able to access the following paid subscriptions and holdings. You can even use Ancestry.com to make visualizations of your family tree!

Each link below will take you to website with a short description of the data source. Next, clicking on the catalog link will bring you to the resource. If you are off-campus, you may need to use the Tufts VPN (instructions [here](https://access.tufts.edu/software/vpn)).

* + [Ancestry.com](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#Ancestry.com)
  + [ArcGIS Online](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#ArcGIS Online)
  + [Armed Conflict Database](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#Armed Conflict Database)
  + [China Data Online](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#China)
  + [CountryData.Com](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#CountryData.Com)
  + [The Cross-National Time-Series (CNTS) Data Archive](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#The Cross-National Time-Series (CNTS) Data Archive)
  + [Data Citation Index](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#Data Citation Index)
  + [Data-Planet Statistical Datasets](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#Data-Planet Statistical Datasets)
  + [EMIS Professional](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#EMIS)
  + [Europa World Plus](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#Europa World Plus)
  + [Gallup Analytics](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#Gallup Analytics)
  + [Geolytics – Neighborhood Change Database (NCDB)](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#Geolytics - Neighborhood Change Database (NCDB))
  + [Historical Statistics of the United States](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#Historical Statistics of the United States)
  + [ICPSR](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#ICPSR)
  + [IndiaStat.com](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#IndiaStat.com)
  + [OECD iLibrary](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#OECD iLibrary)
  + [Policy Map](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#Policy Map)
  + [ReferenceUSA](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#ReferenceUSA)
  + [Social Explorer](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#Social Explorer)
  + [Statista: the portal for statistics](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#Statista)
  + [U.S. Political Stats](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#U.S. Political Stats)
  + [USA Trade Online](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#USA Trade Online)
  + [The World Bank Data Catalog](https://sites.tufts.edu/datalab/tufts-subscriptionsholdings/#The World Bank Data Catalog)

\*\*To view all of Tufts University Subscriptions and Data Bases, please see the [Tisch Library Database Page](http://tischlibrary.tufts.edu/find/databases/all)

## General Data Sources

Here are a list of popular statistical resources providing free datasets:

* [**American FactFinder**](http://www.library.tufts.edu/ezproxy/ezproxy.asp?LOCATION=AmericanFactfinder)U.S Census Bureau statistics for Population, housing, economic and geographic data for states, cities and towns. Access to the decennial censuses, the American Community Survey and the Economic Census.
* [**Data.Gov**](https://www.data.gov/)  
  This US Governmental site aims to improve public access to high value, machine readable datasets generated by the Executive Branch of the Federal Government. Here, you can find data, tools, and resources to conduct research, develop web and mobile applications, design data visualizations, and [more](https://www.data.gov/about)[.](http://www.library.tufts.edu/ezproxy/ezproxy.asp?LOCATION=DataPlan)
* [**Data-Planet**](http://www.library.tufts.edu/ezproxy/ezproxy.asp?LOCATION=DataPlan)Provides access to statistical data produced by U.S. Federal agencies, States, private organizations, and major intergovernmental organizations. There are up to 2 billion charts, maps, views, rankings, time series and tables available for use in the Data-Planet repository. Link to [Ready Reference](http://www.library.tufts.edu/ezproxy/ezproxy.asp?LOCATION=DataPlanetErica) interface.
* [**General Social Survey**](http://www3.norc.org/gss+website)The GSS contains a standard ‘core’ of demographic, behavioral, and attitudinal questions, plus topics of special interest. Many of the core questions have remained unchanged since 1972 to facilitate time-trend studies as well as replication of earlier findings. The GSS takes the pulse of America, and is a unique and valuable resource. It has tracked the opinions of Americans over the last four decades.
* [**Integrated Public Use Microdata Series (IPUMS)**](http://www.ipums.org/)Consists of more than fifty high-precision samples of the American population drawn from fifteen federal censuses and from the American Community Surveys of 2000-2011.
* [**The Inter-University Consortium for Political and Social Research (ICPSR)**](http://www.library.tufts.edu/ezproxy/ezproxy.asp?LOCATION=ICPSR)The Inter-University Consortium for Political and Social Research. World’s largest archive of social science data. Election data, opinion polls, more. Special collections on Health, Education, Aging, Crime, Substance Abuse. A great place to begin looking for raw data. Many dataset files come formatted for major statistical packages (Stata, SPSS, SAS).
* [**iPoll Databank**](http://www.library.tufts.edu/ezproxy/ezproxy.asp?LOCATION=RsrcRcrdiPoll)Includes all survey data for which the Roper Center holds the datasets as well as survey data from Pew Resarch Centers, Kaiser Family Foundation, Gallup Organization and more.
* [**IQSS Dataverse**](http://dataverse.org/)Data repository hosted by Harvard University containing raw data files of interdisciplinary research studies in both the sciences and social sciences
* [**OECD iLibrary**](https://www.library.tufts.edu/ezproxy/ezproxy.asp?LOCATION=http://www.oecd-ilibrary.org/statistics)OECD iLibrary provides online access to Organisation for Economic Co-operation and Development (OECD) resources, covering trade, environment, agriculture, technololgy, economic development, and more. The books, reports, working papers and periodicals are full-text and the databases have extensive statistical information.
* [**Policy Map**](http://www.library.tufts.edu/ezproxy/ezproxy.asp?LOCATION=PolMap)Mapping tool much like Social Explorer but integrates other data sources from the Department of Homeland security, Bureau of Labor Statistics and the U.S Census
* [**ProQuest Statistical Insight**](http://www.library.tufts.edu/ezproxy/ezproxy.asp?LOCATION=StatUniv)Provides access to statistics and tables in reports produced by federal agencies, states, intergovernmental organizations as well as private enterprise.
* [**re3data.org**](http://re3data.org/)Searchable catalog of research data repositories
* [**Roper Center**](http://www.ropercenter.uconn.edu/)The Roper Center for Public Opinion Research is one of the world’s leading archives of social science data, specializing in data from surveys of public opinion. Includes over 18,000 datasets across many subjects.
* [**Social Explorer**](http://www.library.tufts.edu/ezproxy/ezproxy.asp?LOCATION=SocialExp)Interactive visualization tool that utilizes the decennial censuses and American Community Survey data. Also includes select data sets on crime, religion, recent presidential approval ratings and more. Can be used to visually study demography and change over time in the United States.
* [**UNdata**](http://data.un.org/)Official statistics produced by countries and compiled by United Nations data system, as well as estimates and projections. The domains covered are agriculture, education, energy, industry, labour, national accounts, population and tourism. Largest aggregator of international data. If you’re looking for data from different countries this is a good place to start.
* [**The Bureau of Justice Statistics (BJS)**](http://www.bjs.gov/index.cfm)To collect, analyze, publish, and disseminate information on crime, criminal offenders, victims of crime, and the operation of justice systems at all levels of government. These data are critical to federal, state, and local policymakers in combating crime and ensuring that justice is both efficient and evenhanded.
* [**FBI Uniform Crime Reports (UCR)**](http://www.fbi.gov/about-us/cjis/ucr/ucr) “The Uniform Crime Reporting (UCR) Program has been the starting place for law enforcement executives, students of criminal justice, researchers, members of the media, and the public at large seeking information on crime in the nation. The program was conceived in 1929 by the International Association of Chiefs of Police to meet the need for reliable uniform crime statistics for the nation. In 1930, the FBI was tasked with collecting, publishing, and archiving those statistics.”  
  The UCR tool extracts state and local agency statistics on violent and property crimes. The “Crime in the United States” reports often have data tables available for download as well.
* [**Countrydata.com (PRS Group)**](http://www.library.tufts.edu/ezproxy/ezproxy.asp?LOCATION=PRSCountryData) Over 75 variables for more than 150 countries including ratings and data from the International Country Risk Guide and Coplin O’Leary PRS Forecast. Updated monthly with archives back to 1984. Note: CountryData offers spreadsheet data only. For PRS text and analysis, see International Country Risk Guide and Political Risk Services, both found in LexisNexis.
* [**Air Data (EPA)**](http://www.epa.gov/airdata/)  
  AirData provides annual summary air pollution data for the United States.
* [**Center for International Earth Science Information Network**](http://www.ciesin.columbia.edu/)  
  The Center for International Earth Science Information Network (CIESIN) was established in 1989 as an independent non-governmental organization to provide information that would help scientists, decision-makers, and the public better understand the changing relationship between human beings and the environment. Contains datasets by subjects: agriculture, climate, conservation, governance, hazards, health, infrastructure, land use, marine and coastal, population, remote sensing, sustainability, urban and water.
* [**OECD iLibrary**](http://www.library.tufts.edu/ezproxy/ezproxy.asp?LOCATION=http://www.oecd-ilibrary.org/statistics)International statistics on energy sources and energy policy
* [**The Little Green Data Book (World Bank)**](http://data.worldbank.org/products/data-books/little-data-book/little-green-data-book)The Little Green Data Book is a pocket-sized ready reference on key environmental data for over 200 economies. Key indicators are organized under the headings of agriculture, forestry, biodiversity, energy, emission and pollution, and water and sanitation.
* [**U.S Energy Information Administration**](http://www.eia.gov/)Provides tables on U.S energy prices, petroleum, natural gas, electricity, coal, renewable energy, and C02 emissions
* [**World Resource Institute Datasets**](http://www.wri.org/our-work/project/earthtrends-environmental-informationpublications/data-sets)

Contains datasets on greenhouse has emissions and other climate-relevant indicators.

## Spatial Data Resources

There are multiple data sources for spatial data available through the Data Lab website (datalab.tufts.edu). All these resources are searchable by also indexed in the [GeoData@Tufts](https://sites.tufts.edu/datalab/geodatatufts/) software portal, available at: <https://geodata.tufts.edu/>

Many of these are focused on spatial wildlife data, as they were collected by Carolyn Talmadge, Senior GIS Specialist, TTS.

* [**The IUCN Red List of Threatened Species**](http://www.iucnredlist.org/technical-documents/spatial-data)– Species extent data
* [United States Census Bureau](http://www.census.gov/) – Administrative Boundaries for the US & Census Variable Data
* [United States Census of Agriculture](https://www.agcensus.usda.gov/) – Data about agricultural practices
* [Global Administrative Area (GADM)](http://www.gadm.org/country) – Administrative Boundaries
* [The USGS Land Cover Institute](http://landcover.usgs.gov/globallandcover.php) - Land Cover
* [USGS Earth Explorer](http://earthexplorer.usgs.gov/) – Lots of remote sensing data!
* [Links to LOTS of Data Websites:](http://landcover.usgs.gov/landcoverdata.php#other) from the USGS
* FAO [GAEZ Global Agro – Ecological Zones](http://gaez.fao.org/Main.html)
* [More Links from FAO](http://www.fao.org/geonetwork/srv/en/main.home)
* [NASA & Colombia University – SocioEconomic data and Applications Center](http://sedac.ciesin.columbia.edu/data/sets/browse)
* [Earth Stat](http://www.earthstat.org/data-download/) – Great environmental data
* [National Geophysical Data Center (NGDC)](http://sos.noaa.gov/Datasets/dataset.php?id=96) – Lights at Night
* [Nature Serve](http://www.natureserve.org/conservation-tools/data-maps-tools) – Conservation and Environmental Data for the US
* [University of Singapore](http://libguides.nus.edu.sg/gis): Geospatial Data in Asia
* [Protected Planet](http://www.protectedplanet.net/) – Global Protected Land Data (very detailed)
* [Global Forest watch](http://www.globalforestwatch.org/map) – tons of cool datasets and links
* [Data.Gov](http://catalog.data.gov/dataset) – A large repository for all sorts of data throughout the US
* [United Nations Environment Programme](http://geodata.grid.unep.ch/) – Environmental Data Explorer
* [The World Bank](http://datacatalog.worldbank.org/)
* [Humanitarian Response](https://www.humanitarianresponse.info/en/applications/data/hdx-datasets#table/1)
* [List of amazing GIS Data Sites](http://inisig.com/cartografia/) – It’s in Spanish
* [World Pop Project](http://www.worldpop.org.uk/data/)
* [koordinates](https://koordinates.com/)
* [GISTPortal](https://gistdata.itos.uga.edu/) – Data Repository
* [Google Maps Data](https://maps.google.com/gallery?hl=en-US)
* [Natural Earth](http://www.naturalearthdata.com/)
* [Marine Regions](http://www.marineregions.org/downloads.php)
* [Aquastat](http://www.fao.org/nr/water/aquastat/data/query/index.html?lang=en)
* [Global Resevoir and Dam Database](http://atlas.gwsp.org/index.php)
* [Armed Conflict Location & Event Data](http://www.acleddata.com/data/) Conflict data in Africa and other areas
* [Global Terroism database](http://www.start.umd.edu/gtd/)
* [Undersea Cables Dataset](http://www.cablemap.info/)
* [International Steering Committee for Global Mapping](http://www.iscgm.org/gm/national.html)  - Great Vegetation, land cover , etc data.
* [National Centers for Environmental Information](http://www.ngdc.noaa.gov/mgg/bathymetry/maps/nos_intro.html)
* [World Climate Data](http://www.worldclim.org/download)
* [Climatic Research Unit](http://www.cru.uea.ac.uk/data/)
* [Global Livestock density of grasslands](http://www.wri.org/publication/pilot-analysis-global-ecosystems-grassland-ecosystems#data)
* [The Nature Conservancy](http://maps.tnc.org/gis_data.html) – Conservation Data
* [South African National Parks Data Repository](http://dataknp.sanparks.org/sanparks/)
* [South Africa Department of Environmental Affairs GIS Data:](https://www.environment.gov.za/distributionmaps_mammals_southafrica)
* [UN Environmental Statistics by country](http://unstats.un.org/unsd/environment/clinks.htm)
* [National Weather Service](http://www.nws.noaa.gov/gis/shapepage.htm)
* Big database of free data <http://freegisdata.rtwilson.com/>
* [Lifemapper](http://lifemapper.org/?page_id=593) species data
* [American Geographic Society (good resource to begin searches)](http://americangeo.org/geogspace/)
* [Kenyan National Bureau of Statistics](http://www.knbs.or.ke/index.php?option=com_phocadownload&view=category&id=98:environment&Itemid=599)
* [National Gap Analysis Program (GAP) | Species Data Portal](http://gapanalysis.usgs.gov/species/data/download/#choose)
* [US Fish and Wildlife Services](https://www.fws.gov/gis/data/national/)
* The elephant census: <https://elephant-atlas.org/home>
* StrandNet is the Queensland Government’s Department of Environment and Heritage Protection (EHP) statewide database which records dead, sick and injured threatened marine animals for the entire coast of Queensland and adjacent Commonwealth waters
* [MIKE (Monitoring the Illegal Killing of Elephants) by CITES.](https://cites.org/eng/prog/mike/data_and_reports)
* <https://knoema.com/atlas/topics/Poaching/datasets> - Poaching datasets
* <https://knoema.com/atlas/topics/Land-Use/datasets> - A lot of good everything datasets
* Wildlife trade maps plus more: <https://eia-international.org/category/maps>
* <https://data.noaa.gov//dataset> – NOAA data catalog
* [**NRC Nuclear Power Datasets**](https://www.nrc.gov/reading-rm/doc-collections/datasets/)
* Crop mapping: <http://www.gdacorp.com/crop-mapping>
* World Resources Institute: <http://datasets.wri.org/>
* ArcGIS Open Data: <https://hub.arcgis.com/pages/open-data>
* Coral Reef Database : <http://www.reefbase.org/gis_maps/datasets.aspx>
* WATER data <https://water.usgs.gov/maps.html>
* US Energy Mapping System: <https://www.eia.gov/state/maps.php>
* <http://chg.geog.ucsb.edu/data/chirps/>
* <http://geo.aiddata.org/query/#!/>

## Other Spatial and Ecological Data Sources

*Adapted from the NCEAS website on 9-5-2018* [*https://www.nceas.ucsb.edu/scicomp/data*](https://www.nceas.ucsb.edu/scicomp/data)

### Informational Portals

[Data Observation Network for Earth (DataONE)](https://www.dataone.org/)

Data Observation Network for Earth (DataONE) is the foundation of new innovative environmental science through a distributed framework and sustainable cyberinfrastructure that meets the needs of science and society for open, persistent, robust, and secure access to well-described and easily discovered Earth observational data.

[Home Page: CGIAR CSI Consortium for Spatial Information](http://www.cgiar-csi.org/)

A community of the many geospatial scientists within Consultative Group on International Agriculture Research (CGIAR). Serves Climate, Elevation, Socio-Economic, and Soils digital data sets.

[Earth Distance Calculation Algorithms Reference Page](http://www.ga.gov.au/earth-monitoring/geodesy/geodetic-techniques/distance-calculation-algorithms.html)

Useful review of Earth distance calculation formulas, courtesy of the Australian Government (Geoscience Australia)

[EOS-EarthData (University of New Hampshire): Digital Library for Earth Science Data](http://eos-earthdata.sr.unh.edu/)

Free, customized earth science data. Holdings can be searched spatially, temporally,  
or via keywords

[Geocommunity.com](http://data.geocomm.com/)

Portal to a variety of open-source geospatial datasets

[Google Earth Engine](http://earthengine.google.org/)

A planetary-scale platform for environmental data & analysis

[NASA Global Change Master Data Set Directory](http://gcmd.gsfc.nasa.gov/)

The GCMD holds more than 25,000 Earth science data set and service descriptions, which cover subject areas within the Earth and environmental sciences.

[NASA Earth Data and Information](https://earthdata.nasa.gov/)

This page contains links to a broad set of remote sensing data sources as well as informational and tutorial remote sensing web sites

[NOAA / National Geophysical Data Center (NGDC) Marine Geology and Geophysics](http://www.ngdc.noaa.gov/mgg/mggd.html)

Scientific stewardship, products, and services for sea floor and lake bed data

[Natural Resources Canada - Earth Sciences Sector](http://www.nrcan.gc.ca/earth-sciences)

Home page for Natural Resources Canada / Earth Sciences Sector. Good sources of geospatial data for Canada.

[USGS National Data Portal](http://viewer.nationalmap.gov/launch/)

Interactive portal gives access to a global geospatial data archive

### Map Projections

[epsg.io: Map Projection Utility](http://epsg.io/)

Find a spatial reference for most map projections

[UTM Grid Zones of the World](http://www.dmap.co.uk/utmworld.htm)

Concise overview and map of Global Universe Transverse Mercator (UTM) Zones

Biogeochemical Data: Observations and Models

[Oak Ridge National Laboratory - Distributed Active Archive Center (ORNL-DAAC)](http://daac.ornl.gov/)

A NASA-sponsored source for biogeochemical and ecological data and models useful in   
ecological analysis

[United States Geological Survey - National Uranium Resource Evaluation (NURE) program](http://tin.er.usgs.gov/nure/sediment/)

Geochemical analysis of sediment samples throughout the United States, collected by  
the hydrogeochemical and stream sediment reconnaissance (HSSR) phase of the   
National Uranium Resource Evaluation (NURE) program

### Biological / Species Data

[EDEN Data Archive: Emerging Diseases in a Changing European Environment](http://www.edenextdata.com/)

European Commission project aims to identify and catalogue those European ecosystems and environmental conditions that influence the spatial and temporal distribution and dynamics of human pathogenic agents.

[NatureServe Data Collection Home Page](http://www.natureserve.org/conservation-tools/data-maps-tools)

A leading source for reliable scientific information about species and ecosystems of the Western Hemisphere. This site serves as a portal for accessing several types of publicly available biodiversity data.

Climate Data: Observations and Models

[Climate Research Unit (CRU) - University of East Anglia](http://www.cru.uea.ac.uk/cru/data/)

CRU Home Page: Portal to research descriptions and data set access

[Paper Describing the CRU Climate Data Set (PDF format)](https://www.nceas.ucsb.edu/files/scicomp/Dloads/SpatialData/CRUGlobalSurfaceClimateGrid.pdf)

[IPCC Data Distribution Centre Climate Model Data Portal](http://www.ipcc-data.org/)

Intergovernmental Panel on Climate Change Data Distribution Center portal: provides climate, socio-economic, and environmental data for the past and projected future.

[National Center for Atmospheric Research (NCAR): Home Page](http://ncar.ucar.edu/)

Information portal for NCAR: a federally funded research and development center devoted to service, research and education in the atmospheric and related sciences.

[NCAR Community Earth System Model (CESM) Home Page](http://www.cesm.ucar.edu/) - Access to research tools and long-term simulation run datasets.

[NCAR Earth Systems Laboratory (NESL) Climate and Global Dynamics Division (CGD)](http://www.cgd.ucar.edu/)

CGD research provides understanding of the Earth's climate system and uses models to develop the capability of predicting the evolution of the climate system to the degree possible.

[National Climactic Data Center (NCDC) Archives](http://www.ncdc.noaa.gov/)

One of the world's largest climate data archives.

[NCDC Climate Data Online (CDO) portal](http://www7.ncdc.noaa.gov/CDO/cdo)

Searchable repository of surface climate parameter measurements.

[NOAA Earth System Research Laboratory /Physical Sciences Division (ESRL/PSD)](http://www.esrl.noaa.gov/psd/)

ESRL/PSD) addresses physical science questions of short- and long-term societal and policy relevance within NOAA's Climate and Weather and Water Goals, while conducting the physical process research necessary so that ESRL can help provide the nation with a seamless suite of information and forecast products ranging from short-term weather forecasts to longer-term climate forecasts and assessments.

[PRISM Climate Group at Oregon State University: High-Quality Interpolated Global Climate Data](http://www.prism.oregonstate.edu/)

Knowledge-based system uses point measurements of precipitation, temperature, and other climatic factors to produce continuous, digital grid estimates of monthly, yearly, and event-based climatic parameters.

[World Climate Research Program/ Coupled Model Intercomparison Project (WCRP / CMIP3)](http://www-pcmdi.llnl.gov/ipcc/about_ipcc.php) *(Registration required to download CMIP3 data sets)*

[WORLDCLIM: Global-scale Bioclimatic Data Layer Database](http://www.worldclim.org/)

This database covers most of Earth surface at 1 KM\*\*2 spatial resolution.  
Includes 19 climate measurements well-suited for use in ecological modeling.

Economic Data

[Eurostat Portal - European Union (EU) Statistical Information Service](http://ec.europa.eu/eurostat/web/main/home)

Extensive archive of European socio-economic statistical data sets.

### Forest Resource Data

[US Department of Agriculture: Forest Inventory and Analysis National Program (FIA)](http://www.fia.fs.fed.us/)

The FIA Program reports on status and trends in forest area and location; in the species, size, and health of trees; in total tree growth, mortality, and removals by harvest; in wood production and utilization rates by various products; and in forest land ownership.

### Habitat Data

[Bailey's Ecoregions of the United States](http://www.nationalatlas.gov/mld/ecoregp.html)

Ecoregions defined by common climatic and vegetation characteristics, shown as domains, divisions, provinces and sections.

[Natureserve Species Distribution Maps](http://www.natureserve.org/getData/animalData.jsp)

Extensive data on the animals of the United States, Canada, and the Western Hemisphere

[USGS Science Topics Search Results: Habitats](http://www.usgs.gov/science/science.php?term=525)

Use this page to search the USGS Archives for habitat reports and research papers

### Hydrologic / Water Resources Data

[National Hydrography Dataset-PLUS](http://www.horizon-systems.com/nhdplus/)

NHDPlus is an integrated suite of application-ready geospatial data sets that incorporate many of the best features of the National Hydrography Dataset (NHD), the National Elevation Dataset (NED), the National Land Cover Dataset (NLCD), and the Watershed Boundary Dataset (WBD).

[USGS Water Data for the Nation](http://waterdata.usgs.gov/nwis)

Access to free online time-series about US freshwater data (streamgages, wells, ...)

[USGS Coastal and Marine data](http://cmgds.marine.usgs.gov/)

Access to free online scientific information about oceans, coasts, and coastal watersheds.

### Land Cover and Land Use Data

[California Land Cover Mapping and Monitoring Program](http://frap.cdf.ca.gov/projects/land_cover/mapping/index.html)

Produced by the State of California. This program uses Landsat Thematic Mapper (TM) satellite imagery to map land cover types and derive land cover changes across all ownerships. The state is covered in five unique project areas. One project area is completed each year, then revisited and updated every fifth year.

[CEC/North American Land Change Monitoring System (NALCMS) (250 meter spatial resolution)](http://www.cec.org/Page.asp?PageID=924&SiteNodeID=565&AA_SiteLanguageID=1)

Nineteen land cover classes defined using the Land Cover Classification System (LCCS) standard developed by the Food and Agriculture Organization (FAO) of United Nations. From the Council on Environmental Cooperation (CEC) [**North American Environmental Atlas**](http://www.cec.org/Page.asp?PageID=1180&ContentID=&SiteNodeID=495&BL_ExpandID=)

[European Space Agency Ionia GlobCover Portal](http://due.esrin.esa.int/page_globcover.php)

The GlobCover Portal provides access to the results of the GlobCover project: Global-scale composite and land cover maps produced using the 300m MERIS sensor carried aboard the ENVISAT satellite.

[Food and Agriculture Organization of the United Nations (FAO) Land Resources Database Portal](http://www.fao.org/nr/land/databasesinformation-systems/en/)

Global-scale collection of links to agriculture-related land cover and terrain data bases. Includes data for remote countries.

[Example: FAO GeoNetwork portal to global thematic map data](http://www.fao.org/geonetwork/srv/en/main.home)

[Global Land Cover Facility (GLCF)](http://www.landcover.org/)

Collaborative effort by NASA and University of Maryland. Provider of comprehensive earth science data and derived data products

[HYDE: History Database of the Global Environment (0.5 degree spatial resolution)](http://131.224.244.83/en/themasites/hyde/index.html)

HYDE presents (gridded) time series of population and land use for the last 12,000 years ! It also presents various other indicators such as GDP, value added, livestock, agricultural areas and yields, private consumption, greenhouse gas emissions and industrial production data, but only for the last century.

[USGS Land Cover Institute (LCI) Home Page](http://landcover.usgs.gov/natllandcover.php)

The LCI addresses landcover topics at local to global spatial scales, worldwide. Well-stocked data portal for local, national, and global landcover data. Includes the **National Land Cover Dataset.**

[Shortcut to Land Cover Institute North American Data Links](http://landcover.usgs.gov/landcoverdata.php)

[University of Maryland Global Land Cover Data Set (1 Km spatial resolution)](http://www.glcf.umd.edu/library/pdf/ijrs21_p1331.pdf)

Global land cover classification using a classification tree approach

### Map and Digital Terrain Data

[Home Page: CGIAR CSI Consortium for Spatial Information: SRTM 3 Arc Second global data set](http://srtm.csi.cgiar.org/)

High quality elevation data for large portions of the tropics and other areas of the developing world.

[SRTM 90 Meter Digital Elevation Database Version 4.1](http://www.cgiar-csi.org/category/elevation/)

The latest and most complete version of the CGIAR SRTM 90 meter resolution data set.

***Two Data Portals:***[***ASTER GDEM***](http://asterweb.jpl.nasa.gov/gdem.asp)***1 Arc Second Digital Terrain Data***

[Japan / MITI ASTER GDEM portal](http://www.jspacesystems.or.jp/ersdac/GDEM/E/index.html)

Best for obtaining fewer than 100 ASTER GDEM 1 degree\*\*2 data tiles

[NASA (WIST) Data Portal](https://lpdaac.usgs.gov/about/news_archive/wist_transition_reverb)

Best for bulk download - more than 100 - data tiles

[Digital Chart of the World (DCW) Information Site](http://www-sul.stanford.edu/depts/gis/DCW.html#loc)

The DCW is a comprehensive 1:1,000,000 scale vector basemap of the world, designed to meet the needs of pilots and air crews in medium-and low-altitude en route navigation and to support military operational planning, intelligence briefings, and other needs.

[Global Land Cover Facility - Shuttle Radar Topography Mission Portal](http://www.glcf.umd.edu/data/srtm/)

A good place to obtain SRTM global-scale digital terrain model data sets in three different spatial resolutions (cell sizes): 30 meter/90 meter/1 kilometer.

[Global Terrain Slope and Aspect Data - IIASA/ LUC program](http://webarchive.iiasa.ac.at/Research/LUC/Products-Datasets/global-terrain-slope.html)

A Global terrain slope and aspect database compiled from Shuttle Radar Topography Mission (SRTM) elevation data.

[Data Documentation: Global Terrain Slope and Aspect Data](http://webarchive.iiasa.ac.at/Research/LUC/Products-Datasets/global-terrain.pdf)

[Terrainmap.com: Online Digital Elevation Data Journal](http://www.terrainmap.com/)

Comprehensive clearinghouse for digital terrain and land cover data,  
Including informative articles.

[USGS Earth Resource Observation and Science Center (EROS) Elevation Products Home Page](http://eros.usgs.gov/#/Find_Data/Products_and_Data_Available/Elevation_Products)

EROS Data Center portal for worldwide digital Earth terrain data.

[World Borders Dataset from thematicmapping.org](http://thematicmapping.org/downloads/world_borders.php)

Vector dataset containing boundaries for all world countries.

[Virtual Terrain Project (VTP) Home page](http://vterrain.org/)

The goal of VTP is to foster the creation of tools for easily constructing any part of the real world in interactive, 3D digital form. Terrain data sources and discussions of terrain simulation methodologies.

### Remote Sensing Satellite Data

The United States Government maintains these 'scientist-friendly', interactive Web portals for searching for and acquiring (mostly) FREE geospatial datasets:

[MODIS Active Fire and Burned Area Products Portal](http://modis-fire.umd.edu/index.html)

University of Maryland maintains this portal for the complete, worldwide Active Fire detection of actual fires) and Burned Area (areas affected bu fire) Products imagery products derived from MODIS Sensor data.

[NASA Data Portal](http://reverb.echo.nasa.gov/)

Search and order earth science data from various NASA and affiliated centers: Atmosphere/Cryosphere/Land/Ocean/Solar domains. Account required for downloads.

[NASA Ocean Color Web Portal](http://oceancolor.gsfc.nasa.gov/)

MODIS AQUA and SeaWiFS Ocean-Monitoring satellite data and software tools

[USGS Center for Earth Resources Observation and Science (EROS) Data Center](http://eros.usgs.gov/find-data)

[USGS Earth Explorer Spatial Data Search and Acquisition site](http://earthexplorer.usgs.gov/)

Provides access to a diverse data collection of including aerial photography, vector map data, digital elevation maps, landcover, and carbon mapping imagery. Designed for downloads of individual data product files

Home Page / Data Portal for the primary archive and data management center for remote sensing data collected by the United States Goverment.

[USGS LP-DAAC / Access to Global Visualization Viewer (GloVis) and other search tools](https://lpdaac.usgs.gov/data_access/glovis)

Gives access to several online search/order tools for remote sensing data, including: Landsat, MODIS, ASTER, other imagery. Supports download of multiple images/data sets. Account required for downloads.

[USGS TerraLook satellite image portal](http://terralook.cr.usgs.gov/)

TerraLook portal permits users to create their own collections of georeferenced JPEG satellite images from ASTER and Landsat sensors. Good for scientists wishing to learn about remote sensing data.

### Soils Data

[IIASA / LUC Harmonized World Soil Database](http://webarchive.iiasa.ac.at/Research/LUC/External-World-soil-database/HTML/index.html?sb=20)

A collaborative, comprehensive Harmonized World Soil Database compiled from regional and national updates of soil information.

[ISRIC World Soil Information: Global soil research and data archive](http://www.isric.org/)

As a World Data Centre for Soils: serves the scientific community as custodian of world soil information by collecting, scrutinising, analysing and disseminating data and information, and making them freely available.

[USDA soil survey datasets](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/survey/geo/?cid=nrcs142p2_053631)

US soil survey information, including soil geographic databases.

Gender and Environment data

<http://web.unep.org/ggeo/resources/data-sources>

A selection of 17 indicators that provide the most geographically comprehensive gender-disaggregated, environment-relevant data. While these indicators represent a limited portion of the data and information that would ideally be needed to offer a comprehensive picture of gender aspects of environmental issues, compiling these indicators provides an important baseline that will be useful to decision makers, practitioners, and many of UNEP’s institutional partners.

## Nutrition & Epidemiological Data

[NHANES](https://www.cdc.gov/nchs/nhanes/index.htm)

From the website: The National Health and Nutrition Examination Survey (NHANES) is a program of studies designed to assess the health and nutritional status of adults and children in the United States

[FoodNET](https://www.cdc.gov/foodnet/reports/index.html)

From the website: FoodNet summarizes information collected through active surveillance of eight pathogens twice a year. Final data are summarized in the FoodNet Annual Report, which is released later in the year when updated census information becomes available.

[Global Nutrition Report](https://globalnutritionreport.org/reports/global-nutrition-report-2018/dataset-and-metadata/)

*Global Nutrition Report* datasets contain data for all the indicators used in each year's *Global Nutrition Report*'s country profiles. Datasets broadly contain information on adult and child nutrition, economics and demography, nutrition intervention coverage, and policies and legislation in the nutrition sector.

[BRFSS](https://www.cdc.gov/brfss/index.html)

The Behavioral Risk Factor Surveillance System (BRFSS) is the nation’s premier system of health-related telephone surveys that collect state data about U.S. residents regarding their health-related risk behaviors, chronic health conditions, and use of preventive services. Established in 1984 with 15 states, BRFSS now collects data in all 50 states as well as the District of Columbia and three U.S. territories. BRFSS completes more than 400,000 adult interviews each year, making it the largest continuously conducted health survey system in the world.

## Additional datasets with public links

These datasets have the Tufts-centric content removed, for external collaborators:

<https://medium.com/@kyle.m.monahan/get-more-data-into-your-data-science-c09934c606af>