

SOURCES OF GIS, CLIMATE & REMOTELY SENSED DATA

TYPE	URL	FORMAT	RECC. SOFTWARE
Various socio-economic	http://www.guardian.co.uk/world-government-data	CSV, XLS & XML	Excel & ArcGIS
Country Administrative Boundaries	http://www.diva-gis.org/gdata	ESRI SHP (zipped)	ArcGIS (can import to Idrisi)
Global/Continental Administrative Boundaries	http://www.diva-gis.org/gdata	ESRI SHP (zipped)	ArcGIS (can import to Idrisi)
Current World Climate Averages data (min/max/mean Temperature, rainfall, bioclim/altitude)	http://www.worldclim.org/current	ESRI GRD (zipped) & Generic Binary	ArcGIS (can import Binary into Idrisi)
Future World Climate Averages data (from climate models) (Temperature & rainfall)	http://www.worldclim.org/futdown.htm and http://www.ccafs-climate.org/	Generic Binary	ArcGIS and Idrisi
Past World Climate Average reconstructed (min/max Temperature, rainfall, bioclim)	http://www.worldclim.org/past	Generic Binary	ArcGIS and Idrisi
Climate maps available to download as GeoTIFF	http://www.ecad.eu/utills/mapserver/eobs_maps_registered.php	ASCII and GeoTIFF	ArcGIS, Idrisi and QGIS
90 metre global Digital Elevation Model data	http://www.cgiar-csi.org/data/srtm-90m-digital-elevation-database-v4-1	GeoTIFF & ArcINFO Ascii	ArcGIS, Erdas Imagine and Idrisi
1990/2000 Landsat Images	https://zulu.ssc.nasa.gov/mrsid/	MrSid	Convert for Idrisi/ArcGIS
European environmental data: maps and charts	http://www.eea.europa.eu/data-and-maps/	various	various
Epidemiological disease maps and data	http://www.spatialepidemiology.net/	various	Various
USGS GLOVIS: Landsat, ASTER, EO-1, MODIS, TERRALOOK raw data	http://glovis.usgs.gov/ (requires free registration)	various (includes GeoTIFF)	Idrisi and ArcGIS
Global NOAA-AVHRR Data	http://edc2.usgs.gov/1KM/comp10d.php	various	Idrisi and ArcGIS
USGS Global Ecosystems data	http://rmgsc.cr.usgs.gov/ecosystems/dataviewer.shtml	Ascii Grid, GeoTIFF, Erdas Imagine	Idrisi and ArcGIS
Global Meteorological Data archive	Step-by-step download instructions: http://tinyurl.com/3x2ijpk	.CSV	Excel
Meteorological & Climate data	http://climexp.knmi.nl/start.cgi?someone@somewhere	Various text	Excel
NCDC climate & meteorology data	http://www.ncdc.noaa.gov/oa/mpp/freedata.html	Various	various
UN-FAO Geo-spatial network data	http://www.fao.org/geonetwork/srv/en/main.home	various	ArcGIS and Idrisi

FAO World Climate Data : software & database package	http://tinyurl.com/32xwjgg	software	All
SRTM 90 metre Digital Elevation Data	http://srtm.csi.cgiar.org/ and http://srtm.csi.cgiar.org/SELECTION/inputCoord.asp	GeoTIFF (zipped)	ArcGIS and Idrisi
Natural Earth vector and raster map data	http://www.naturalearthdata.com/	various	Idrisi and ArcGIS
Africa: environmental raster and country boundary vector	http://earlywarning.usgs.gov/adds/index.php	.SHP and .IMG	Windisp, Idrisi and ArcGIS
OpenStreetMap mapping and cartography data	http://www.openstreetmap.org/	.PNG, JPEG, .SVG, .PDF	ArcGIS and Idrisi
Various sources of data covering a wide variety of themes	http://freegisdata.rtwilson.com/	various	All
Open StreetMap (OSM) Shapefiles for many urban areas in the world	http://metro.teczno.com/	Choose Shapefile options	All
Sea-Surface Temperature maps	http://www.cpc.ncep.noaa.gov/products/GIS/GIS_DATA/	GeoTIFF	All
Africa & Asia Rainfall Estimates	http://www.cpc.ncep.noaa.gov/products/GIS/GIS_DATA/rfe/index.php	GeoTIFF	All
World population data	http://www.worldpop.org.uk/data/	GeoTIFF	All
USGS/NASA Global data Explorer	http://gdex.cr.usgs.gov/gdex/	Various	All
MEA Earthserver	http://earthserver.services.meeo.it/	Various	All
Climate4You	http://www.climate4you.com/	Various	All
Health data and statistics (WHO)	http://apps.who.int/gho/data/node.main	Numerical	All
Malaria Data and country statistics	http://gamapserver.who.int/gho/interactive_charts/malaria/deaths/atlas.html	Numerical	All
Free Open Data from Ordnance Survey (UK)	https://www.ordnancesurvey.co.uk/opendatadownload/products.html	SHP files	All
Climatic Data sets Climate Research Unit at UEA	http://www.cru.uea.ac.uk/data	Various	All
IPCC Data	http://www.ipcc-data.org/	Various	All
ESRI Health and Climate Open Data	http://health.geoplatform.opendata.arcgis.com/	Various	All
Free and open access to biodiversity data	https://www.gbif.org/	Various	All
Smithsonian Institute Volcano Database	https://volcano.si.edu/	Excel	Excel

Add YOUR OWN sources here:

FREE GIS/IMAGE PROCESSING/CONVERSION/VISUALISATION SOFTWARE

DIVA	http://www.diva-gis.org/download
WINDISP	http://www.fao.org/giews/english/windisp/windisp.htm
QGIS	http://www.qgis.org/ HIGHLY RECOMMENDED
GRASS	http://grass.itc.it/
MAPWINDOW	http://www.mapwindow.org/
MYGEODATA	http://mygeodata.eu/
R	http://www.r-project.org/
HUMIDITY	http://andrew.rsmas.miami.edu/bmcnoldy/Humidity.html
PAST	http://folk.uio.no/ohammer/past/index.html

ONLINE TOOLS

Humidity calculator	http://bmcnoldy.rsmas.miami.edu/Humidity.html

USEFUL LINKS

- <http://www.diva-gis.org/>
- <http://openspace.ordnancesurvey.co.uk/openspace/>
- <http://www.gearthblog.com/>
- <http://www.ukscience.org/>
- <http://landsathandbook.gsfc.nasa.gov/>
- http://spatial-analyst.net/wiki/index.php?title=Global_datasets
- <http://converter.mygeodata.eu/>

COMMON FILE FORMATS

.ZIP – compressed ZIP archive
.TIF/.TIFF – GeoTIFF format
.BIN – Generic binary format
.ASC – Ascii format
.TXT – Test format
.CSV – Comma delimited (text) format

.IMG – Erdas Imagine
.SHP – Shape (vector) file
.RRD = Erdas Imagine Image Statistics file

File format help database: <http://www.file-extensions.org/>

REMEMBER: Large datasets are often compressed into an archive file – to save time transmitting them down the internet. These archives often have file extensions such as .ZIP, .GZIP, .TAR or .GZ etc. A very good universal file un-archiver (which is free) is called 7-ZIP and can be downloaded from: <http://www.7-zip.org/> You would need to use a program like 7-zip to decompress your downloaded data BEFORE attempting to open it in your GIS software.

USE CLICKABLE LINKS BY DOWNLOADING THIS FILE ELECTRONICALLY HERE:

http://www.ukscience.org/_Media/SOURCES_OF_GIS_DATA.doc

http://www.ukscience.org/_Media/SOURCES_OF_GIS_DATA.pdf