

Pan-European Data Sources that can be used for Delineating Spatial units at the Reach Scale and larger

Data set / source	Description	Web link	Type	Cost/Availability
Synthesis of several primary data sources	Biogeographic Regions and Subregions	www.globalbioclimatics.org http://www.eea.europa.eu/data-and-maps/figures/biogeographical-regions-europe-2001	Maps of Regions	Free
ASTER GDEM	30 m resolution , 7-14 m vertical accuracy	http://asterweb.jpl.nasa.gov/gdem.asp	Topographic	Free
EU-DEM	Pan-EU DEM at 25 m based on ASTER GDEM m (higher quality than any other publicly available DEM at EU scale)	http://epp.eurostat.ec.europa.eu/portal/page/portal/gisco_Geographical_information_maps/geodata/digital_elevation_model	Topographic	Free
NASA SRTM3 DEM	90m resolution, 10 m vertical accuracy	http://www2.jpl.nasa.gov/srtm/ http://glovis.usgs.gov/	Topographic	Free
JRC CID Portal	High resolution (1,2,5,10 m) satellite imagery, spatial coverage and dates vary	http://cidportal.jrc.ec.europa.eu/imagearchive/main/	Channel planform, vegetation/land use	JRC use
Image 2000 Satellite Imagery	12.5 m resolution (panchromatic), 25 m (multispectral)	http://image2000.jrc.ec.europa.eu/index.cfm/page/image2000_overview	Channel planform, vegetation/land use	Free
LandSat (4,5,7,8) Satellite Imagery	30 m resolution (15m from 1999), 1982-present	http://earthexplorer.usgs.gov/ http://glovis.usgs.gov/	Channel planform, vegetation/land use	Free
ASTER Satellite Imagery	30m resolution	http://asterweb.jpl.nasa.gov/index.asp	Channel planform, vegetation/land use	£30 per 60 km ² (2013 price)
Declassified Satellite Imagery (Corona, KH-7, KH-9)	1'-50' resolution, 1960-1980, spatial coverage varies	http://earthexplorer.usgs.gov/	Channel planform, vegetation/land use	\$30 per frame (2013 price)
European Water Archive	Flow data (daily/monthly) from 3800 gauging stations, 441 are near-natural catchments	http://www.bafg.de/GRDC/EN/04_spcldtbss/42_EWA/ewa.html	Hydrology	Free
CCM2 Database	Pan-European database of river networks and catchments	http://ccm.jrc.ec.europa.eu/php/index.php?action=view&id=23	Inferred channel network from DEM, catchment boundaries and characteristics	Free
Ecrins - European catchments and rivers network system	Improved river network based on CCM2, FEC – functional elemental catchments based on Strahler number	http://www.eea.europa.eu/data-and-maps/data/european-catchments-and-rivers-network	Inferred channel network from DEM, catchment boundaries, lakes	Free
EU-HYDRO	Two versions: one based on SPOT5 Image 2006 river network and another on EU-DEM (processed by ASTER GDEM) based river network		river network, river lines, river polygons, water bodies (lakes, lagoons, etc.), channels, dams	JRC use
Corine Land Cover	Land cover data (1990, 2000, 2006), resolution = 100 m	http://www.eea.europa.eu/data-and-maps	Land use	Free
One Geology Europe	Surficial geology coverage for Europe, resolution varies	http://onegeology-europe.org/	Geology	Free
European Soil Portal (groundwater)	Groundwater resource maps of Europe (38 map sets at 1:500000 scale)	http://eusoils.jrc.ec.europa.eu/ESDB_Archive/groundwater/gw.html#data	Aquifers	Free
European Soil Portal (soils)	Soil data (shapefiles), 1km resolution	http://eusoils.jrc.ec.europa.eu/ESDB_Archive/ESDB/index.htm	Soil	Free
European Soil Portal (K erodibility factor)	10 km resolution raster data set of USLE K-factor (t.ha.h)/(ha.MJ.mm)	http://eusoils.jrc.ec.europa.eu/library/themes/erosion/Erodibility/	Soil erodibility	Free
European Soil Portal (PESERA soil erosion estimates)	Modelled soil erosion (t ha ⁻¹ yr ⁻¹) estimates at 1 km resolution	http://eusoils.jrc.ec.europa.eu/ESDB_Archive/pesera/pesera_download.html	Sediment delivery	Free
European Soil Portal	Topsoil organic carbon content 1 km raster layer, ETRS LAEA projection	http://eusoils.jrc.ec.europa.eu/ESDB_Archive/octop/octop_data.html	Soil property	Free
European Soil Portal	EFSA Topsoil pH (H ₂ O) 1 km raster, ETRS LAEA projection	http://eusoils.jrc.ec.europa.eu/library/Data/EFSA/	Soil property	Free
European Soil Portal	EFSA Topsoil bulk density 1 km raster, ETRS LAEA projection	http://eusoils.jrc.ec.europa.eu/library/Data/EFSA/	Soil property	Free
European Soil Portal	EFSA Topsoil texture class 1 km raster, ETRS LAEA projection	http://eusoils.jrc.ec.europa.eu/library/Data/EFSA/	Soil property	Free
European Soil Portal	EFSA Topsoil Water content at field capacity 1 km raster, ETRS LAEA projection	http://eusoils.jrc.ec.europa.eu/library/Data/EFSA/	Soil property	Free
European Soil Portal	European Landslide Susceptibility Map (Landslides)	http://eusoils.jrc.ec.europa.eu/library/themes/Landslides/index.html#ELSUS	Sediment delivery	Free
JRC Forest Cover Maps	30 m resolution (1990, 2000, 2006), derived from LandSat and Corine data	http://forest.jrc.ec.europa.eu/download/data/	Vegetation	Free

Notes:

- The table lists the data sets available at pan-EU scale that are free or mainly managed by EU institutions. There are however a large variety of other private products and data which cover most of EU.
- The all lists of all data available through the European Soil Data Centre (ESDAC) is available here: http://eusoils.jrc.ec.europa.eu/library/esdac/OnLine_Data.cfm (from which a number of relevant new products are anticipated).