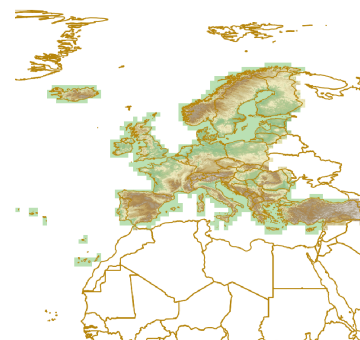


DEM over Europe from the GMES RDA project (EU-DEM, resolution 1 arcsec) - version 1, Oct. 2013



[Metadata](#) | [Metadata \(XML\)](#)

Title	DEM over Europe from the GMES RDA project (EU-DEM, resolution 1 arcsec) - version 1, Oct. 2013
Date	2013-10-01
Date type	Creation
Abstract	<p>The Digital Elevation Model over Europe from the GMES RDA project (EU-DEM) is a Digital Surface Model (DSM) representing the first surface as illuminated by the sensors. EU-DEM covers the EEA39 countries and it has been produced by a consortium led by Indra. Intermap edited the EUDEM and AGI provided the water mask. The EU-DEM is a 3D raster dataset with elevations captured at 1 arc second postings (2.78E-4 degrees) or about every 30 metre. It is a hybrid product based on SRTM and ASTER GDEM data fused by a weighted averaging approach. The EU-DEM is generated as a contiguous dataset divided into 1 degree by 1 degree tiles corresponding to the SRTM naming convention. These tiles have then been aggregated into 5°x5° tiles and mosaicked together into a single file by EEA. The 5°x5° tiles are provided as GeoTIFF with LZW compression. The mosaic is provided as GeoTIFF with DEFLATE compression. Ownership of EU-DEM belongs to European Commission, DG Enterprise and Industry.</p>

Metadata language	eng
Hierarchy level	Dataset

Point of contact

Organisation name	European Commission, DG Enterprise and Industry
Position name	Communication and Information Unit R4
Role	Point of contact
Topic category	Elevation

Keyword

Keyword	Elevation
Keyword	Hydrography
Keyword	Elevation
Keyword	Hydrography
Keyword	Mapping

Keyword	Cartography
Keyword	Geography
Keyword	Geodesy
Keyword	Photogrammetry
Keyword	Radar
Keyword	Remote sensing

Extent

Geographic bounding box

West bound	-32
East bound	45
South bound	27
North bound	72

Spatial resolution

Distance	http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_19139_Schemas/resources/uom/ML_gmxUom.xml#deg
Distance	0.0002777777778

Lineage

Statement	<p>The EU-DEM data product is derived from an automated data fusion process using SRTM and ASTER GDEM digital surface model (DSM) data. Intermap's NEXTMap Europe dataset is utilized to remove any consistent horizontal bias in the GDEM data. The EU-DEM product is edited to ensure that water features are adequately represented and consistent with the hydrography layer provided by Aerogeodezijos Institutas (AGI) in Kaunas, Lithuania. Residual clouds within the GDEM data are identified and removed same as suspect data extremely differing from the SRTM data. All EU-DEM tiles are edited interactively in a 3D stereo environment. The editing is restricted to the hydrographic features and pits and bumps. In areas above 60 degrees North, the EU-DEM generation process is supported by other DEM data sources provided by JRC. Water features are flattened (oceans, lakes) and stepped (rivers) based on the hydrography data produced by AGI. The spatial reference system is geographic, lat/lon with horizontal datum ETRS89, ellipsoid GRS80 and vertical datum EVRS2000 with geoid EGG08.</p>
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Resource constraints

Use limitation	<p>Access to data governed by Commission delegated regulation (EU) No .../... of 12.7.2013 supplementing Regulation (EU) No 911/2010 of the European Parliament and of the Council on the European Earth monitoring programme (GMES) by establishing registration and licensing conditions for GMES users and defining criteria for restricting access to GMES dedicated data and GMES service information.</p> <p>The following credit must be displayed when using these data: Data funded under GMES preparatory action 2009 on Reference Data Access by the European Commission, DG Enterprise and Industry.</p>
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Metadata language	eng
Character set	UTF8

Metadata author

Organisation name	European Environment Agency
Role	Point of contact
Date stamp	2013-10-09T16:00:42