EEA geospatial data catalogue

EEA reference GRID for EU27 in 1, 10 and 100 km (vector), version Oct. 2026

This dataset provides the reference grids for EU27. The grids are based on a proposal from the 1st European Workshop on Reference Grids in 2003 and aligns with the INSPIRE geographical grid systems.

The grids are available at resolutions of 1 km, 10 km, and 100 km, and at different geographical scales (national or EEA country coverage). They cover at least the country borders and, where applicable, a marine area derived from the Exclusive Economic Zones (EEZ), version 12.0. Note that the extent of the grids into the marine area does not represent the extent of EU27's territorial waters.

The grid data are provided in GeoPackage and ESRI geodatabase formats.

Simple

Identification info

Date (Publication)	2026-10-15
Date (Creation)	2026-10-01
Edition	01.00
Citation identifier	EEA_v_3035_1-10-100_km_ref-GRID-EU27_p_2026_v01_r01

Point of contact

Organisation	Individual	Electronic mail address	Website	Role
European Environment Agency		sdi@eea.europa.eu	http://www.eea.europa.eu	Point of contact
European Environment Agency		sdi@eea.europa.eu		Custodian

Spatial representation type	Vector

Spatial resolution

Spatial resolution	1 km

Spatial resolution

Spatial resolution	10 km

Spatial resolution

Spatial resolution	100 km

Topic category	• Environment

Extent

Extent

Extent

Extent

71.75	N	17.85	S	62.58	E	-64.82	W

Extent

Extent

Temporal extent

Time period	2026-01-01

Extent

Maintenance and update frequency	Unknown
GEMET - INSPIRE themes, version 1.0	• Area management/restriction/regulation zones and reporting units • Geographical grid systems • Sea regions
GEMET	• information • geographic information system • gridding • environmental policy • region
Continents, countries, sea regions of the world.	• EU27 (2007-2013)
Spatial scope	• National

Resource constraints

Access constraints	Other restrictions
Other constraints	no limitations to public access

Resource constraints

Use constraints	Other restrictions
Other constraints	License CC-BY 4.0 (https://creativecommons.org/licenses/by/4.0/). Copyright holder: European Environment Agency (EEA).

Language	English

Distribution Information

Distribution format	• Geopackage • GDB
OnLine resource	https://sdi.eea.europa.eu/webdav/datastore/public/EEA_v_3035_1-10-100_km_ref-GRID-EU27_p_2026_v01_r01

OnLine resource	Direct download

Data quality info

Hierarchy level	Dataset

Report

Result

Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	See the referenced specification

Resource lineage

Statement	The reference grids are based on ETRS89 Lambert Azimuthal Equal Area projection with parameters: latitude of origin 52°N, longitude of origin 10°E, false northing 3210000.0m, false easting 4321000.0m. The origin of the grid is calculated from 0 mN, 0 mE in the projection. The grids are created at different resolutions (1, 10, 100km) and by different geographic scales (National level, EEA country coverage). Each grid will always cover terrestrial boundaries and, when applicable, marine regions, with a 20km buffer around them. The terrestrial area is extracted from EuroBoundaryMap v? by Eurogeographic, while the marine area is delineated from the EEZ (version 12); note that the grid extent into the marine area does not reflect the extent of territorial waters. The method followed the instructions for the EEA fishnet tool described in the EEA GIS guideline available from http://www.eionet.europa.eu/gis. All grids have been created using the script described in the EEA GitHub. Additionally, a readme.txt file is available in the same subfolder of the data .
Hierarchy level	Dataset

Reference System Information

Reference System Information

Code	EPSG:3035

Metadata

Metadata identifier	urn:uuid/6b5ca32f-e074-4784-b65e-b389b0d309cf
Language	English
Character encoding	UTF8

Contact

Organisation	Individual	Electronic mail address	Website	Role
European Environment Agency		sdi@eea.europa.eu		Point of contact

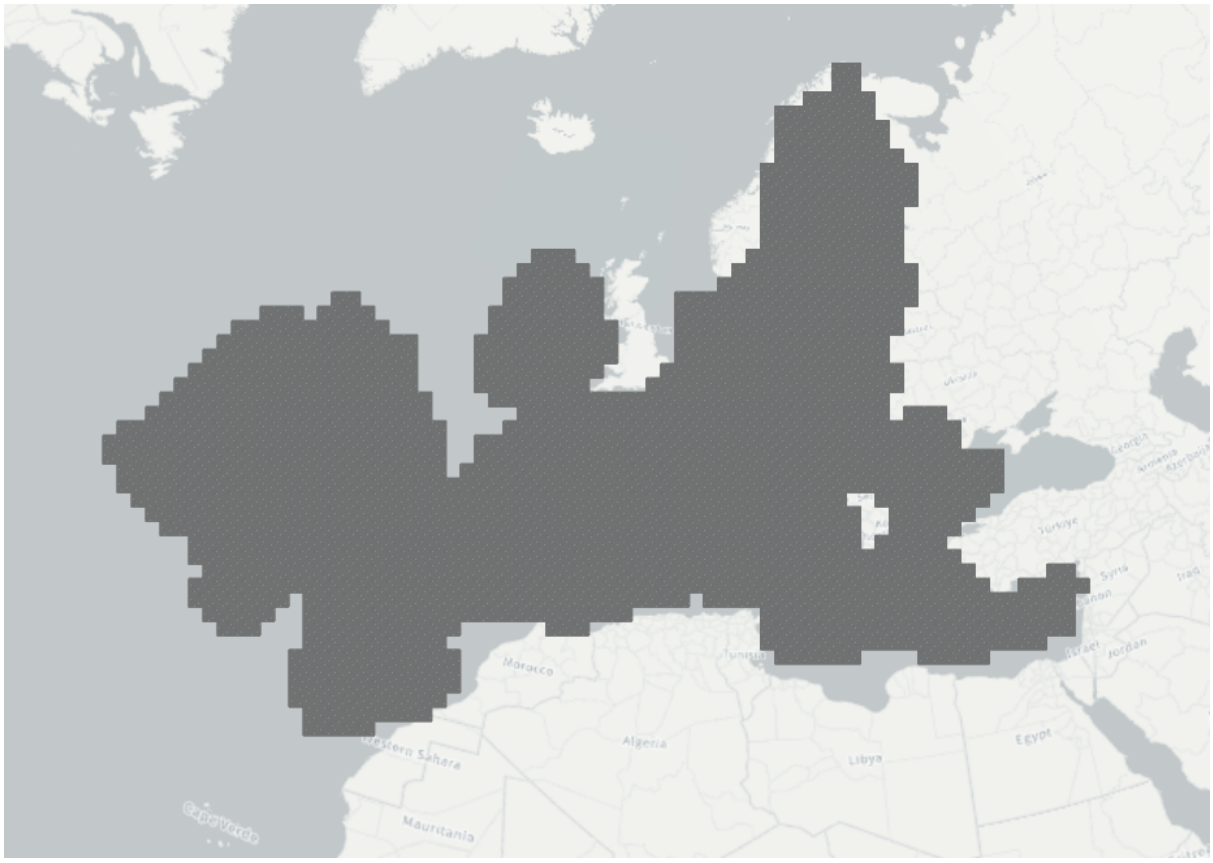
Type of resource

Resource type	Dataset
Metadata linkage	https://sdi.eea.europa.eu/catalogue/srv/api/records/6b5ca32f-e074-4784-b65e-b389b0d309cf?language=all
Date info (Creation)	2026-10-01T12:23:39.848181Z
Date info (Revision)	2026-10-09T13:01:58.655684Z

Metadata standard

Title	ISO 19115/19139
Edition	1.0

Overviews



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