

European Ground Motion Service: Calibrated 2018-2022 (vector), Europe, yearly, Oct. 2023

The European Ground Motion Service (EGMS) is a component of the Copernicus Land Monitoring Service. EGMS provides consistent, regular, standardised, harmonised and reliable information regarding natural and anthropogenic ground motion phenomena over the Copernicus Participating States and across national borders, with millimetre accuracy. This set of metadata describes the second product level of EGMS: Calibrated.

This product is considered the main EGMS product as it serves the needs of most users. It contains the same type of information as the Basic product (https://sdi.eea.europa.eu/catalogue/srv/eng/catalog_search#/metadata/1b2eb0d6-8c3a-4de2-b99d-10a30079f3cc), but the measurement points are referenced to a model derived from global navigation satellite system data. Thus, the measurements are not relative anymore and are considered as absolute. The calibrated product makes it possible to compare ground motion measurements from adjacent areas belonging to different products of the same level.

EGMS Calibrated is visualised as a vector map of measurement points, colour-coded by average velocity, and distributed to users in comma-separated values format. Each point is associated with a time series of displacement, i.e. a plot with values of displacement per acquisition of the satellite. The product is generated for both ascending and descending orbits.

Simple

Date (Creation)	2023-03-15		
Date (Publication)	2023-10-25		
Edition	01.00		
Citation identifier	copernicus_v_3035_20_m_egms-calibrated_p_2018-2022_v01_r00		
Code	10.2909/d92e61be-d6e8-4bc1-aa10-f742bf27bab9		
Point of contact	Organisation name	Individual name	Electronic mail address Website Role
	European Environment Agency		copernicus@eea.europa.eu https://land.copernicus.eu Distributor
	European Environment Agency		copernicus@eea.europa.eu https://land.copernicus.eu Custodian
	European Environment Agency		copernicus@eea.europa.eu https://land.copernicus.eu Point of contact

Point of contact

No information provided.

Point of contact

No information provided.

Maintenance and update frequency	Annually
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> Natural risk zones
Keywords	
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> Norway EU27 (from 2020) Iceland United Kingdom
Keywords	

GEMET	<ul style="list-style-type: none"> • geo-referenced data • landslide • built environment • earth observation • risk reduction • urban area • infrastructure • geological process • subsidence
Spatial scope	<ul style="list-style-type: none"> • European
Temporal resolution	<ul style="list-style-type: none"> • Weekly
EEA Management Plan	<ul style="list-style-type: none"> • 2023 6.5.32
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	<p>The Copernicus programme is governed by Regulation (EU) No 2021/696 of the European Parliament and of the Council of 28 April 2021 establishing the Union Space Programme and the European Union Agency for the Space Programme and repealing Regulations (EU) No 912/2010, (EU) No 1285/2013 and (EU) No 377/2014 and Decision No 541/2014/EU. Within the Copernicus programme, a portfolio of land monitoring activities has been delegated by the European Union to the EEA. The land monitoring products and services are made available through the Copernicus land portal on a principle of full, open and free access, as established by the Copernicus data and information policy Regulation (EU) No 1159/2013 of 12 July 2013. The Copernicus data and information policy is in line with the EEA policy of open and easy access to the data, information and applications derived from the activities described in its management plan.</p> <p>Free, full and open access to this data set is made on the conditions that:</p> <ol style="list-style-type: none"> 1. When distributing or communicating Copernicus dedicated data and Copernicus service information to the public, users shall inform the public of the source of that data and information. 2. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the Union. 3. Where that data or information has been adapted or modified, the user shall clearly state this. 4. The data remain the sole property of the European Union. Any information and data produced in the framework of the action shall be the sole property of the European Union. Any communication and publication by the beneficiary shall acknowledge that the data were produced "with funding by the European Union".
Spatial representation type	Vector
Distance	20 20 m
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none"> • Geoscientific information

N

S

E

W



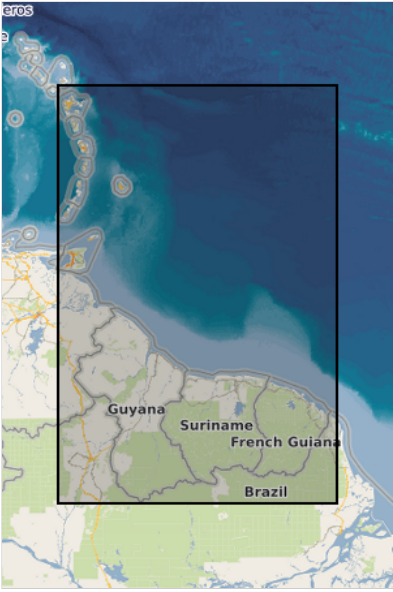
Begin date	2018-01-01
End date	2022-12-31

N

S

E

W





Coordinate reference system identifier	EPSG:3035		
Coordinate reference system identifier	EPSG:32738		
Coordinate reference system identifier	EPSG:32740		
Coordinate reference system identifier	EPSG:32620		
Coordinate reference system identifier	EPSG:32622		
Distribution format	<ul style="list-style-type: none"> • ascii (.csv, .txt, .sql) () 		
OnLine resource	Protocol WWW:LINK-1.0-http--link WWW:LINK-1.0-http--link WWW:LINK-1.0-http--link	Linkage https://egms.land.copernicus.eu/ https://ieeexplore.ieee.org/abstract/document/9553562 https://land.copernicus.eu/pan-european/european-ground-motion-service	Name EGMS Explorer Scientific paper Service documentation

OnLine resource

No information provided.

OnLine resource	Protocol DOI	Linkage https://doi.org/10.2909/d92e61be-d6e8-4bc1-aa10-f742bf27bab9	Name
Hierarchy level	Dataset		

Conformance result

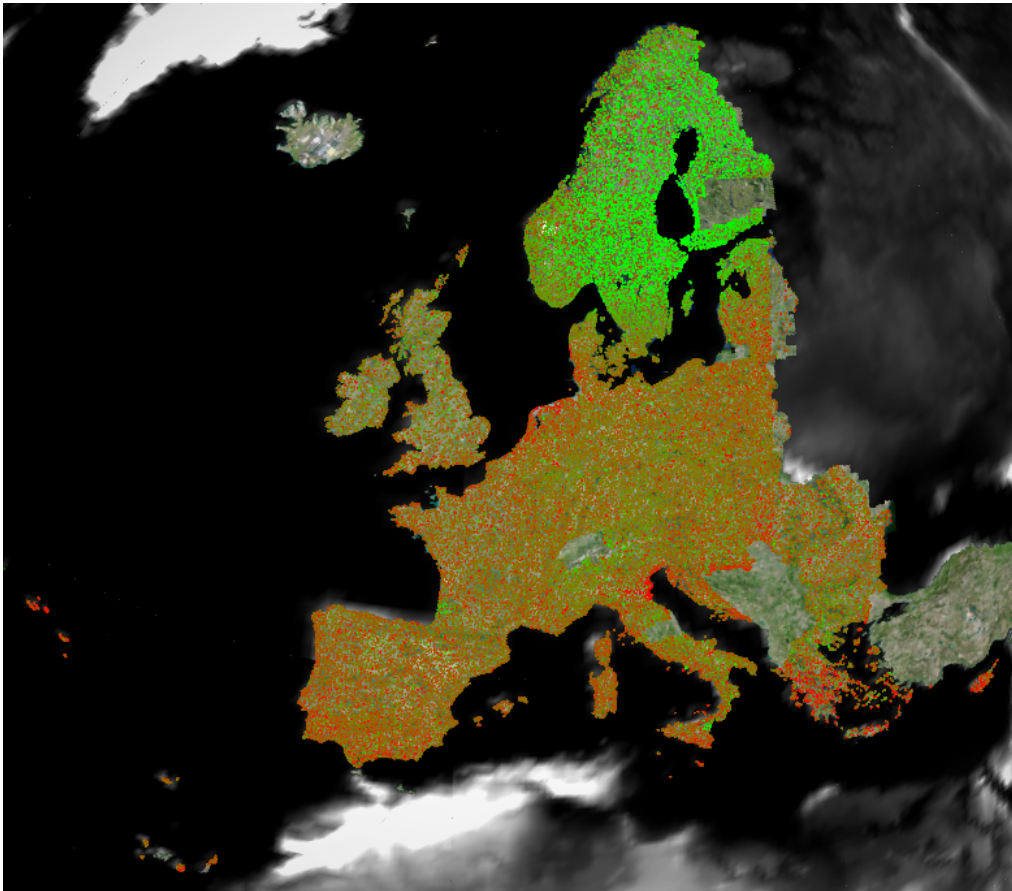
Date (Publication)	2010-12-08
Explanation	See the referenced specification
Statement	The Calibrated product has been produced by calibrating the Basic product with a reference velocity model derived from global navigation satellite system data. The model is transformed to the reference frame of the interferometric data, projected to the radar line-of-sight, interpolated at each measurement point, and used to provide the information needed to harmonize all the different reference points that characterise the Basic product.
Source	•

Metadata

File identifier	d92e61be-d6e8-4bc1-aa10-f742bf27bab9 XML
-----------------	--

Metadata language	English										
Character set	UTF8										
Hierarchy level	Dataset										
Date stamp	2024-06-20T15:03:28.315727Z										
Metadata standard name	ISO 19115/19139										
Metadata standard version	1.0										
Metadata author	<table border="1"> <thead> <tr> <th>Organisation name</th> <th>Individual name</th> <th>Electronic mail address</th> <th>Website Role</th> </tr> </thead> <tbody> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td>Point of contact</td> </tr> </tbody> </table>	Organisation name	Individual name	Electronic mail address	Website Role	European Environment Agency		sdi@eea.europa.eu	Point of contact		
Organisation name	Individual name	Electronic mail address	Website Role								
European Environment Agency		sdi@eea.europa.eu	Point of contact								

Overviews



Provided by

