

Grassland Change 2015-2018 (raster 20 m), Europe, 3-yearly, Oct. 2020

The High Resolution Layer (HRL) Grassland Change 2015-2018 raster product at 20m resolution provides information on changes in grassland vegetation cover between the reference years 2015 and 2018. The thematic classes indicate all non-grassland areas, grassland gain and grassland loss, unchanged grassland in both years and unverified grassland gain and loss areas for the pan-European area of EEA38 and the United Kingdom. The production of the High Resolution grassland layers was coordinated by the European Environment Agency (EEA) in the frame of the EU Copernicus programme.

This dataset is provided as 20 meter rasters in 100 x 100 km tiles grouped according to the EEA38 countries and the United Kingdom (fully conformant with the EEA reference grid).

The HRL Grassland layer is the main High Resolution grassland product. This grassy and non-woody vegetation baseline product includes all kinds of grasslands: managed grassland, semi-natural grassland and natural grassy vegetation. It is a binary status layer for the 2015 reference year mapping grassland and all non-grassland areas in 20m and (aggregated) 100m pixel size and, for the 2018 reference year, in 10m and (aggregated) 100m pixel size.

You can read more about the product here: <https://land.copernicus.eu/en/products/high-resolution-layer-grassland/grassland-change-2015-2018> .

Simple

Date (Creation)	2020-10-20			
Date (Publication)	2020-10-20			
Edition	01.00			
Citation identifier	copernicus_r_3035_20_m_grac-2015-2018_p_2010-2018_v01_r00			
Code	10.2909/a0925bc0-d3d8-49af-ba9d-c4f1cf2b654d			
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.

Maintenance and update frequency	Continual
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> Land cover
Keywords	
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> EEA38 (from 2020) United Kingdom
Keywords	
GEMET	<ul style="list-style-type: none"> forest management land cover landscape alteration land use

Spatial scope	<ul style="list-style-type: none"> • European
EEA topics	<ul style="list-style-type: none"> • Land use
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	<p>Access to data is based 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. This regulation establishes registration and licensing conditions for GMES/Copernicus users.</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	Grid
Distance	20 20 m
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none"> • Environment • Imagery base maps earth cover
Begin date	2010-01-01
End date	2018-10-31



Coordinate reference system identifier	EPSG:3035		
Distribution format	<ul style="list-style-type: none"> GeoTIFF (1.0) 		
OnLine resource	Protocol ESRI:REST OGC:WMS WWW:LINK-1.0-http-link	Linkage https://image.discomap.eea.europa.eu/arcgis/rest/services/GioLandPublic/HRL_GrasslandChange_15_18/ImageServer https://image.discomap.eea.europa.eu/arcgis/services/GioLandPublic/HRL_GrasslandChange_15_18/ImageServer/WMServer?request=GetCapabilities&service=WMS https://land.copernicus.eu/en/products/high-resolution-layer-grassland/grassland-change-2015-2018#Download	Name Download (requires authentication)
OnLine resource	Protocol DOI	Linkage https://doi.org/10.2909/a0925bc0-d3d8-49af-ba9d-c4f1cf2b654d	Name
Hierarchy level	Dataset		

Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification

Statement	<p>The Grassland Change Layer 2015-2018 at 20m spatial resolution is derived from the primary Pan-European Grassland Status Layers of the reference years 2015 (HRL GRA at 20m resolution) and 2018 (HRL GRA at 10m spatial resolution) and covers the area of EEA38 and the United Kingdom. The GRA Change Layer is the first of its kind indicating changes in grassland vegetation cover in five thematic classes. The production workflow consists of a map-to-map comparison of both years and takes adequate time features of both years as well as ploughing information from PLOUGH 2015 and 2018 back to the year 2010 into account.</p> <p>Due to substantial transformations concerning resolution (20m to 10m), significantly enhanced data availability and therefore a refined technical approach, differences between the reference years of 2015 and 2018 are not always illustrating real changes in grassland vegetation cover but are sometimes technically induced. Areas differing in the years 2015 and 2018 that could not be verified as real change by the workflow are therefore labelled as unverified gain or loss areas.</p> <p>Geometric accuracy (positioning scale): Less than one pixel (10m) according to ortho-rectified satellite image base (Sentinel-2 Level-2A) delivered by ESA.</p> <p>Thematic target accuracy: The thematic accuracy has been assessed on the primary pan-European Change product and refers to classes 1-gain, 2-loss, 10-unchanged grassland in both years and 0-all non-grassland areas. Unverified areas are not part of the validation process. The unweighted overall accuracy is 88,97%. The weighted overall accuracy is 99,30% and considers the relative importance of all classes.</p>
------------------	--

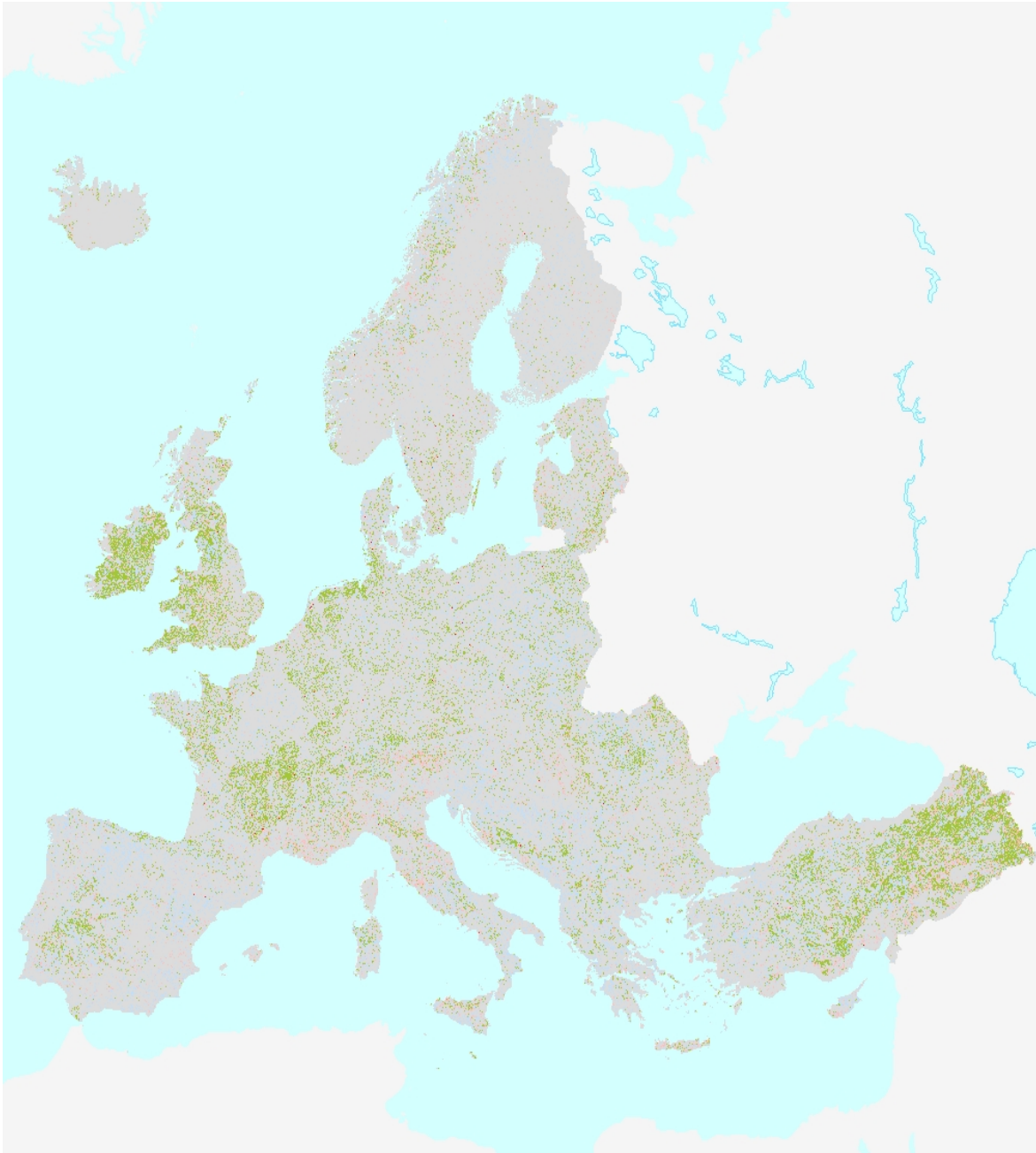
Source	<ul style="list-style-type: none">
---------------	--

Metadata

File identifier	a0925bc0-d3d8-49af-ba9d-c4f1cf2b654d XML
------------------------	--

Metadata language	English										
Character set	UTF8										
Hierarchy level	Dataset										
Date stamp	2024-02-06T16:45:24.005Z										
Metadata standard name	ISO 19115/19139										
Metadata standard version	1.0										
Metadata author	<table border="0"> <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

