

Impervious Built-up 2018 (raster 10 m), Europe, 3-yearly, Aug. 2020

The Impervious Built-up (IBU) layer for the reference year 2018 is a thematic product showing the binary information of building (class 1) and no building (class 0) within the sealing outline derived from the Imperviousness Density layer for the period 2018 for the EEA38 countries and the United Kingdom. The production of the high resolution imperviousness layers is coordinated by the EEA in the frame of the EU Copernicus programme.

The high resolution imperviousness products capture the percentage and change of soil sealing. Built-up areas are characterized by the substitution of the original (semi-) natural land cover or water surface with an artificial, often impervious cover. These artificial surfaces are usually maintained over long periods of time. A series of high resolution imperviousness datasets (for the 2006, 2009, 2012, 2015 and 2018 reference years) with all artificially sealed areas was produced using automatic derivation based on calibrated Normalized Difference Vegetation Index (NDVI). This series of imperviousness layers constitutes the main status layers. They are per-pixel estimates of impermeable cover of soil (soil sealing) and are mapped as the degree of imperviousness (0-100%). Imperviousness change layers were produced as a difference between the reference years (2006-2009, 2009-2012, 2012-2015, 2015-2018 and additionally 2006-2012, to fully match the CORINE Land Cover production cycle) and are presented 1) as degree of imperviousness change (-100% -- +100%), in 20m and 100m pixel size, and 2) a classified (categorical) 20m change product.

The dataset is provided as 10 meter rasters (fully conformant with the EEA reference grid) in 100 x 100 km tiles grouped according to the EEA38 and the United Kingdom.

More information about this product can be found here: <https://land.copernicus.eu/en/products/high-resolution-layer-impervious-built-up/impervious-built-up-2018> .

Simple

Date (Creation)	2020-08-18		
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	European Environment Agency		copernicus@eea.europa.eu https://land.copernicus.eu Distributor
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No information provided.

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

Keywords	
GEMET	<ul style="list-style-type: none"> • land use • urban area • land cover • built-up area • sealing • soil surface sealing • built environment • landscape alteration
Spatial scope	<ul style="list-style-type: none"> • European
EEA Management Plan	<ul style="list-style-type: none"> • 2018 3.6.1
EEA topics	<ul style="list-style-type: none"> • Buildings and construction • Land use • Soil
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	10 10 m
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none"> • Environment • Imagery base maps earth cover
Begin date	2017-01-01
End date	2019-12-31

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Coordinate reference system identifier	EPSG:3035		
Distribution format	<ul style="list-style-type: none"> GeoTIFF (1.0) 		
OnLine resource	Protocol	Linkage	Name
	ESRI:REST	https://image.discomap.eea.europa.eu/arcgis/rest/services/GioLandPublic/HRL_BuiltUp_2018/ImageServer	
	OGC:WMS	https://image.discomap.eea.europa.eu/arcgis/services/GioLandPublic/HRL_BuiltUp_2018/ImageServer/WMSServer?request=GetCapabilities&service=WMS	
	WWW:LINK-1.0-http--link	https://land.copernicus.eu/en/products/high-resolution-layer-imperviousness/impervious-built-up-2018#Download	Download (requires authentication)
OnLine resource	Protocol	Linkage	Name
	DOI	https://doi.org/10.2909/3e412def-a4e6-4413-98bb-42b571afd15e	
Hierarchy level	Dataset		

Conformance result

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

Statement	<p>Quality assurance follows the ISO9000 standards for Quality Management and comprises of dedicated procedures of on-going quality checks (QA breakpoints) during implementation of the production chain, in order to keep persistent control over the various stages of production, assure fitness-for-purpose of the end-products and that all quality requirements are fulfilled. Priority will be given to the target thematic accuracies to be achieved by each product, as well as to the issues of product consistency (spatial, thematic, temporal) and homogeneity.</p> <p>Quality Assessment: The quality assessment has been performed according to INSPIRE Data Specifications. The data quality elements considered are:</p> <ul style="list-style-type: none"> Completeness, Logical Consistency, Thematic Accuracy, Temporal quality and Usability. <p>Each of them (excl. the Thematic Accuracy hereafter) forms a section in the QA/QC Procedures.</p>
Source	<ul style="list-style-type: none">

Metadata

File identifier	3e412def-a4e6-4413-98bb-42b571afd15e XML		
Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2024-02-06T16:44:23.895Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
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Overviews



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