

Imperviousness Density 2018 (raster 10 m), Europe, 3-yearly, Aug. 2020

The High Resolution Layer on Imperviousness Density 2018 is a thematic product showing the sealing density in the range from 0-100% for the period 2018 (including data from 2017-2019) for the EEA-38 area and the United Kingdom. The production of the high resolution imperviousness layers is coordinated by 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 product.

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

More information about the product is available here: https://land.copernicus.eu/en/products/high-resolution-layer-imperviousness/imperviousness-density-2018 .

Simple

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Point of contact	Organisation name	Individual name	Electronic mail address	Website	Role
	European Environment Agency		copernicus@eea. europa.eu	https://land. copernicus. eu	
	European Environment Agency		copernicus@eea. europa.eu	https://land. copernicus. eu	-
	European Environment Agency		copernicus@eea. europa.eu	https://land.	

Point of contact

No information provided.

Maintenance and update frequency	Continual
GEMET - INSPIRE themes, version 1.0	Land cover Land use
Keywords	
Continents, countries, sea regions of the world.	United Kingdom EEA38 (from 2020)

Keywords	
EMET	land cover
	land use
	• built-up area
	landscape alteration
	built environment
	• urban area
	soil surface sealing
	• sealing
Spatial scope	• European
EEA Management Plan	• 2018 3.6.1
	Buildings and construction
EEA topics	Land use
	• Soil
Access constraints	Other restrictions
Other constraints	no limitations to public access
Jse constraints	Other restrictions
Other constraints	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.
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Spatial representation type	Grid
Distance	10 10 m
anguage of dataset	English
Character set	UTF8
	Environment Imagery base maps earth cover
ropic category	inagery base maps earth cover
Topic category Begin date	2017-01-01

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Iceland Sweden			
Latvia Germany Ukraine	Ка		
France Spain 1 Turkey Syria			

Iran

Pa

Syri

Libya

Egyp Mauritania Mali Niger Saudi Arabia

Morocco

Coordinate reference system identifier	EPSG:3035		
Distribution format	• GeoTIFF (1.0)		
OnLine resource	Protocol	Linkage	Name
	ESRI:REST	https://image.discomap.eea.europa.eu/arcgis/rest/services /GioLandPublic/HRL ImperviousnessDensity_2018 /ImageServer	
	OGC:WMS	https://image.discomap.eea.europa.eu/arcgis/services /GioLandPublic/HRL_ImperviousnessDensity_2018 /ImageServer/WIMSServer? request=GetCapabilities&service=WMS	
	WWW:LINK-1.0-httplink	https://land.copernicus.eu/en/products/high-resolution-layer- imperviousness/imperviousness-density-2018#Download	Download (requires authentication)
OnLine resource	Protocol	Linkage	Name
	DOI	https://doi.org/10.2909/3bf542bd-eebd-4d73-b53c- a0243f2ed862	
Hierarchy level	Dataset		

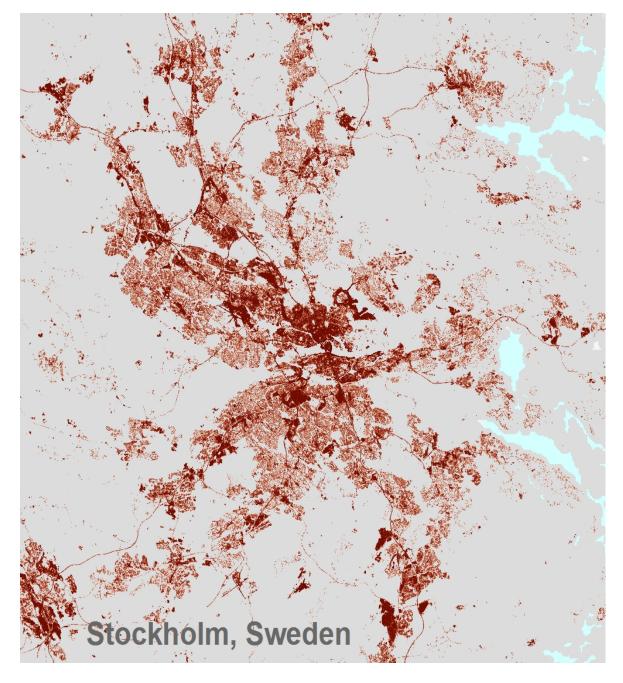
Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification
Statement	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.
	Quality Assessment: The quality assessment has been performed according to INSPIRE Data Specifications. The data quality elements considered are:
	Completeness,
	Logical Consistency,
	Thematic Accuracy,
	Temporal quality and
	Usability.
	Each of them (excl. the Thematic Accuracy hereafter) forms a section in the QA/QC Procedures.

Metadata

File identifier	3bf542bd-eebd-4d73-b53c-a0243f2ed862 XML			
Metadata language	English			
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Hierarchy level	Dataset			
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	Organisation name	Individual name	mail address	Website Role
	European Environment Agency		sdi@eea. europa.eu	Point of contact
	1			

Overviews



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