

# Imperviousness Change 2009-2012 (raster 100 m), Europe, 3-yearly, Apr. 2018

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.

#### Simple

Date (Creation)	2018-04-30				
Date (Publication)	2018-04-30				
Edition	03.00				
Citation identifier	copernicus_r_3035_100_m_imc-2009-2012_	p_2008-2013_v03_r00			
Citation identifier	DAT-14-en				
Code	10.2909/c389689b-38b7-4e3d-bc7b-a403da0cac47				
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No information provided.

Maintenance and update frequency	Continual
GEMET - INSPIRE themes, version 1.0	Land cover
Keywords	
Continents, countries, sea regions of the world.	• EEA39
Keywords	
·	• land use
GEMET	landscape alteration
	soil surface sealing
	land cover      built environment
	• urban area

	• sealing		
Spatial scope	European		
EEA Management Plan	• 2018 3.6.1		
EEA topics	Buildings and construction     Soil		
	Land use		
Access constraints	Other restrictions		
Other constraints	no limitations to public access		
Use 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.		
	Free, full and open access to this data set is made on the conditions that:		
	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.		
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	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	100 m		
anguage of dataset	English		
Character set	UTF8		
Topic category	Environment     Imagery base maps earth cover		
Begin date	2008-01-01		
End date	2013-12-31		

N S E W



N S E W



Coordinate reference system identifier	EPSG:3035				
Distribution format	• GeoTIFF ( 1.0 )	• GeoTIFF (1.0)			
OnLine resource	Protocol	Protocol Linkage Name			
	OGC:WMS	https://image.discomap.eea.europa.eu/arcgis/services /GioLandPublic/HRL_ImperviousnessChange_09_12 /MapServer/WMSServer? request=GetCapabilities&service=WMS	Imperviousness density change 09-12 100m		
	ESRI:REST	https://image.discomap.eea.europa.eu/arcgis/rest/services /GioLandPublic/HRL_ImperviousnessChange_09_12 /MapServer			
	WWW:LINK-1.0-httplink	https://land.copernicus.eu/en/products/high-resolution-layer- imperviousness/imperviousness-change-2009- 2012#Download	Download (requires authentication)		
OnLine resource	Protocol	Linkage	Name		
	DOI	https://doi.org/10.2909/c389689b-38b7-4e3d-bc7b-a403da0cac47			
Hierarchy level	Dataset				
Conformance result	ı				
Date (Publication)	2010-12-08				
Explanation	See the referenced specification				
Statement	checks (QA breakpoints) during impleme production, assure fitness-for-purpose of target thematic accuracies to be achieved	Quality assurance follows the ISO9000 standards for Quality Management and comprises of dedicated procedures of ongoing 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 has been 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:			
	(i) Completeness,	(i) Completeness,			
	(ii) Logical Consistency,	(ii) Logical Consistency,			
	(iii) Thematic Accuracy	(iii) Thematic Accuracy,			
	(iii) Monato Accordery,				

Each of them (excl. the Thematic Accuracy hereafter) forms a section in the QA/QC Procedures.

(iv) Temporal quality and

(v) Usability.

Source	<ul> <li>Imperviousness Density 2009 (raster 100 m), Europe, 3-yearly, Apr. 2018</li> <li>Imperviousness Density 2012 (raster 100 m), Europe, 3-yearly, Apr. 2018</li> </ul>
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### Metadata

File identifier	c389689b-38b7-4e3d-bc7b-a403da0cac47 XML			
Metadata language	English			
Character set	UTF8			
Hierarchy level	Dataset			
Date stamp	2024-02-06T16:47:12.793Z			
Metadata standard name	ISO 19115/19139			
Metadata standard version	1.0			
Metadata author	Organisation name	Individual name	Electronic mail address	Website Role
	European Environment Agency		sdi@eea. europa.eu	Point of contact

### Overviews



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