

# Imperviousness Change 2006-2012 (raster 20 m), Europe, 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, 2015-2015, 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_20_m_imc-2006-2012-syn	ch_p_2006-2012_v03_r00			
Citation identifier	DAT-14-en				
Code	10.2909/3de1ca12-d9a2-40bf-ae55-5c5026b8t	<u>990e</u>			
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### Point of contact

No information provided.

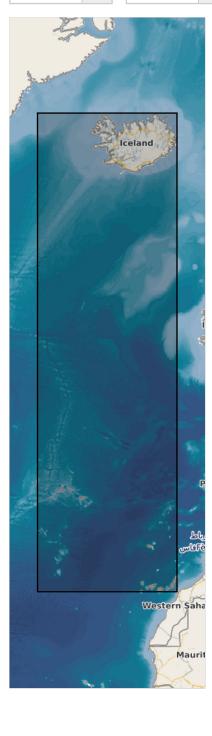
Maintenance and update frequency	Continual
GEMET - INSPIRE themes, version 1.0	Land cover
Keywords	
Continents, countries, sea regions of the world.	• EEA39
Keywords	
Noymondo	• sealing
GEMET	urban area
	built environment
	Iand use
	soil surface sealing
	Iand cover

users.       Free, full and open access to this data set is made on the conditions that:         1. When distributing or communicating Copernicus dedicated data and Copernicus service information to the public, users shall 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 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 m         Language of dataset       English         Character set       UTF8		landscape alteration
ECK we as again with Pain <ul> <li>Buildings and construction</li> <li>Soil</li> <li>Land use</li> <li>Access constraints</li> <li>Other restrictions</li> <li>Other constraints</li> <li>Other restrictions</li> <li>Other restrictions</li> <li>Other restrictions</li> <li>Other restrictions</li> <li>Other constraints</li> <li>Other restrictions</li> <li>Prese, full and open access to this data set is made on the conditions that:             <ul> <li>When distributing or communicating Copernicus decitate and information to the public, users shall inform the public of the source of that data and information.</li> <li>Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the Union.</li> <li>Where that data or information has been adapted or modified, the user shall clearly state this.</li> <li>The data remain the sole property of the European Union. Any information and data produced in the framework of the action shall the sole property of the European Union. Any information and publication by the beneficiary shall acknowledge that the data were produced 'with funding by the European Union. Any information and publication by the beneficiary shall acknowledge that the data were produced 'with funding by the European Union.</li> </ul> </li> <li>Spatial representation type</li> <li>Grid</li> <li>Distance</li> <li>20 m</li> <li>Unstate at the data or information and publication by the beneficiary shall acknowledge that the data were produced 'with fundin</li></ul>	Spatial scope	• European
EEA topics       • Soll         • Land use       Other restrictions         Access constraints       Other restrictions         Other constraints       no limitations to public access         Use constraints       Other restrictions         Other constraints       Other restrictions         Other 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/Coperniculates.         Free, full and open access to this data set is made on the conditions that:         1. When distributing or communicating Copernicus disclasted data and Copernicus service information to the public, users shall 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 by the beneficiary shall acknowledge that the data were produced with funding by 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         Distence       20 m	EEA Management Plan	• 2018 3.6.1
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/Copernicu users.           Free, full and open access to this data set is made on the conditions that:         1. When distributing or communicating Copernicus dedicated data and Copernicus service information to the public, users shall infor 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 the sole property of the European Union. Any communication by the beneficiary shall acknowledge that the data we produced "with funding by the European Union".           Spatial representation type         Grid           Distance         20 m           Language of dataset         English           Language of dataset         English	EEA topics	• Soil
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Language of dataset     English       Character set     UTF8	Spatial representation type	Grid
Character set UTF8	Distance	20 m
	Language of dataset	English
Topic category • Environment	Character set	UTF8
Imagery base maps earth cover	Topic category	Environment     Imagery base maps earth cover
Begin date 2006-01-01	Begin date	2006-01-01
End date 2012-12-31	End date	2012-12-31



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Coordinate reference system identifier	EPSG:3035						
Distribution format	• GeoTIFF ( 1.0 )	• GeoTIFF ( 1.0 )					
OnLine resource	Protocol	Linkage	Name				
	OGC:WMS	https://image.discomap.eea.europa.eu/arcgis/services /GioLandPublic/HRL_ImperviousnessChange_06_12 /MapServer/WMSServer? request=GetCapabilities&service=WMS	Imperviousness density change 06-12 20m				
	ESRI:REST	https://image.discomap.eea.europa.eu/arcgis/rest/services /GioLandPublic/HRL_ImperviousnessChange_06_12 /MapServer					
	WWW:LINK-1.0-httplink	https://land.copernicus.eu/en/products/high-resolution-layer- imperviousness/imperviousness-change-2006- 2012#Download	Download (requires authentication)				
OnLine resource	Protocol	Linkage	Name				
	DOI	https://doi.org/10.2909/3de1ca12-d9a2-40bf-ae55- 5c5026b8b90e					
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 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, (ii) Logical Consistency, (iii) Thematic Accuracy, (iv) Temporal quality and (v) Usability. Each of them (excl. the Thematic Accuracy hereafter) forms a section in the QA/QC Procedures.

- Imperviousness Density 2006 (raster 20 m), Europe, 3-yearly, Apr. 2018
  Imperviousness Density 2012 (raster 20 m), Europe, 3-yearly, Apr. 2018

### Metadata

File identifier	3de1ca12-d9a2-40bf-ae55-5c5026b8b90e XML			
Metadata language	English			
Character set	UTF8			
Hierarchy level	Dataset			
Date stamp	2024-02-06T16:47:04.558Z			
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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