



## Imperviousness Classified Change 2006-2009 (raster 20 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 and 2015 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 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)	2018-04-26				
Date (Publication)	2018-04-26				
Edition	03.00				
Citation identifier	copernicus_r_3035_20_m_imcc-2006-2009_p_2006-2009_v03_r00				
Citation identifier	DAT-14-en				
Code	<a href="https://doi.org/10.2909/62ab826c-9411-4dbf-b516-beb1db681830">10.2909/62ab826c-9411-4dbf-b516-beb1db681830</a>				
Point of contact	Organisation name	Individual name	Electronic mail address	Website	Role
	European Commission			<a href="https://commission.europa.eu">https://commission.europa.eu</a>	Owner
	Copernicus Land Monitoring Service		<a href="mailto:copernicus@eea.europa.eu">copernicus@eea.europa.eu</a>	<a href="https://land.copernicus.eu">https://land.copernicus.eu</a>	Custodian
	European Environment Agency		<a href="mailto:sdi@eea.europa.eu">sdi@eea.europa.eu</a>	<a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a>	Publisher
	Copernicus Land Monitoring Service helpdesk		<a href="mailto:copernicus@eea.europa.eu">copernicus@eea.europa.eu</a>	<a href="https://land.copernicus.eu/en/contact-service-helpdesk">https://land.copernicus.eu/en/contact-service-helpdesk</a>	Point of contact
Maintenance and update frequency	Continual				
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"><li>Land cover</li></ul>				
Keywords					
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"><li>EEA39</li></ul>				
Keywords					
GEMET	<ul style="list-style-type: none"><li>built environment</li><li>land cover</li><li>soil surface sealing</li><li>land use</li><li>landscape alteration</li><li>sealing</li><li>urban area</li></ul>				

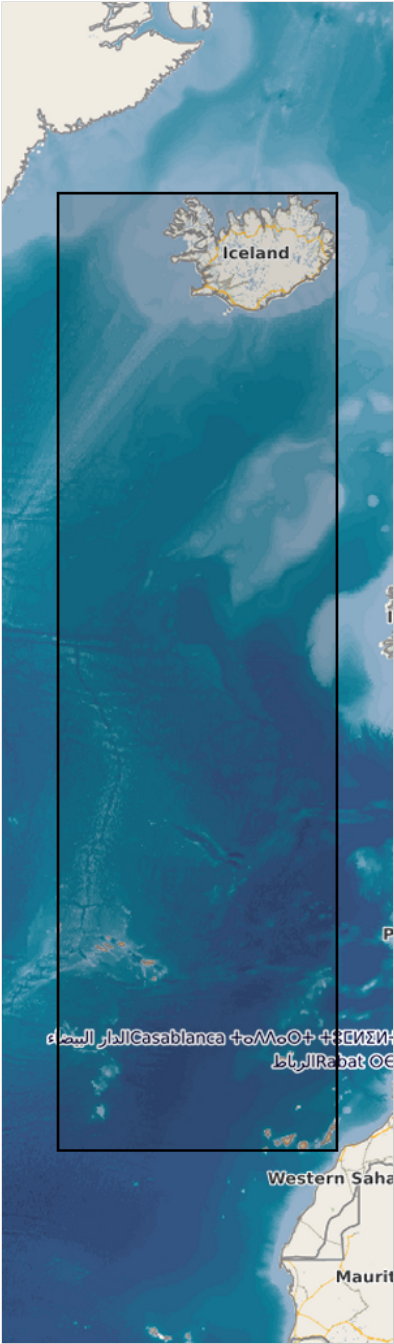
<b>Spatial scope</b>	<ul style="list-style-type: none"> <li>• <a href="#">European</a></li> </ul>
<b>EEA Management Plan</b>	<ul style="list-style-type: none"> <li>• 2018 3.6.1</li> </ul>
<b>EEA topics</b>	<ul style="list-style-type: none"> <li>• Soil</li> <li>• Buildings and construction</li> <li>• Land use</li> </ul>
<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	<p>The Copernicus component is governed by Regulation (EU) No 2021/696 of the European Parliament and of the Council of 28 April 2021 establishing the Union Space Programme and the European Union Agency for the Space Programme and repealing Regulations (EU) No 912/2010, (EU) No 1285/2013 and (EU) No 377/2014 and Decision No 541/2014/EU. Within the Copernicus component, a portfolio of land monitoring activities has been delegated by the European Union to the European Environment Agency (EEA) and the DG Joint Research Centre of the European Commission.</p> <p>The Copernicus land monitoring products and services are made available on a principle of full, open and free access, as established by the Commission Delegated Regulation (EU) No 1159/2013 of 12 July 2013.</p> <p>Free, full and open access to the products and services of the Copernicus Land Monitoring Service is made on the conditions that:</p> <ol style="list-style-type: none"> <li>1. When distributing or communicating Copernicus Land Monitoring Service products and services (data, software scripts, web services, user and methodological documentation and similar) to the public, users shall inform the public of the source of these products and services.</li> <li>2. Where the Copernicus Land Monitoring Service products and services have been adapted or modified by the user, the user shall clearly state this.</li> <li>3. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the European Union.</li> </ol>
<b>Spatial representation type</b>	Grid
<b>Distance</b>	20 m
<b>Language of dataset</b>	English
<b>Character set</b>	UTF8
<b>Topic category</b>	<ul style="list-style-type: none"> <li>• Environment</li> <li>• Imagery base maps earth cover</li> </ul>
<b>Begin date</b>	2006-01-01
<b>End date</b>	2009-12-31

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<b>Coordinate reference system identifier</b>	<a href="#">EPSG:3035</a>		
<b>Distribution format</b>	<ul style="list-style-type: none"> <li>GeoTIFF ( 1.0)</li> </ul>		
<b>OnLine resource</b>	<b>Protocol</b> WWW:LINK-1.0-http--link  OGC:WMS  ESRI:REST	<b>Linkage</b> <a href="https://land.copernicus.eu/en/products/high-resolution-layer-imperviousness/imperviousness-classified-change-2006-2009#Download">https://land.copernicus.eu/en/products/high-resolution-layer-imperviousness/imperviousness-classified-change-2006-2009#Download</a>  <a href="https://image.discomap.eea.europa.eu/arcgis/services/GioLandPublic/HRL_ImperviousnessClassifiedChange_06_09/MapServer/WMSServer?request=GetCapabilities&amp;service=WMS">https://image.discomap.eea.europa.eu/arcgis/services/GioLandPublic/HRL_ImperviousnessClassifiedChange_06_09/MapServer/WMSServer?</a> <a href="https://image.discomap.eea.europa.eu/arcgis/rest/services/GioLandPublic/HRL_ImperviousnessClassifiedChange_06_09/MapServer">request=GetCapabilities&amp;service=WMS</a>  <a href="https://image.discomap.eea.europa.eu/arcgis/rest/services/GioLandPublic/HRL_ImperviousnessClassifiedChange_06_09/MapServer">https://image.discomap.eea.europa.eu/arcgis/rest/services/GioLandPublic/HRL_ImperviousnessClassifiedChange_06_09/MapServer</a>	<b>Name</b> Download (requires authentication)
<b>OnLine resource</b>	<b>Protocol</b> DOI	<b>Linkage</b> <a href="https://doi.org/10.2909/62ab826c-9411-4dbf-b516-beb1db681830">https://doi.org/10.2909/62ab826c-9411-4dbf-b516-beb1db681830</a>	<b>Name</b>
<b>Hierarchy level</b>	Dataset		

## Conformance result

<b>Title</b>	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
<b>Date (Publication)</b>	2010-12-08
<b>Explanation</b>	See the referenced specification

<b>Statement</b>	<p>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:</p> <ul style="list-style-type: none"> <li>(i) Completeness,</li> <li>(ii) Logical Consistency,</li> <li>(iii) Thematic Accuracy,</li> <li>(iv) Temporal quality and</li> </ul>
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(v) Usability.

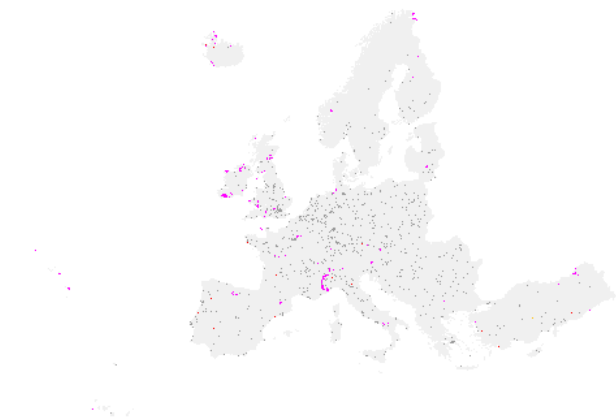
Each of them (excl. the Thematic Accuracy hereafter) forms a section in the QA/QC Procedures.

Source	<ul style="list-style-type: none"><li><a href="#">Imperviousness Density Change 2006-2009 (raster 20 m), Europe, 3-yearly, Apr. 2018</a></li></ul>
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Metadata

File identifier	62ab826c-9411-4dbf-b516-beb1db681830 <a href="#">XML</a>										
Metadata language	English										
Character set	UTF8										
Hierarchy level	Dataset										
Date stamp	2024-02-06T16:47:07.091Z										
Metadata standard name	ISO 19115/19139										
Metadata standard version	1.0										
Metadata author	<table><tr><th>Organisation name</th><th>Individual name</th><th>Electronic mail address</th><th>Website Role</th></tr><tr><td>European Environment Agency</td><td></td><td>sdi@eea.europa.eu</td><td>Point of contact</td></tr></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



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