

Centre for Landscape and Climate Research

School Geography, Geology and Environment

Technical Report

Metadata for Corine Land Cover data 2018. UK.

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# Executive Summary

This report contains information about the metadata of the following datasets; (i) CLC2018\_UK.shp,

(ii) CLC2012rev\_UK.shp (iii) CLC\_CHA12-18\_UK.shp. The datasets covers the UK including the Isle of Man, the Channel Isles, Guernsey, Jersey and Northern Ireland. The attribute tables of these datasets contain the CLC classification codes at level 3, area in hectare, length and area of each of the shapefile features and a column for remarks and a unique ID.

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**Dataset 1**

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| --- | --- |
| ***Name :*** | *Corine land cover 2018* |
| **Filename:** | CLC2018\_UK.shp |
| **Description:** | The final database for the UK:   * This layer CLC2018, is the status map for 2018 for the UK. |
| **Projected Coordinate System:** | British National Grid |
| **Projection:** | Transverse Mercator |
| **Geographic Coordinate System:** | GCS\_OSGB\_1936 |
| **Datum:** | D\_OSGB\_1936 |

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**Dataset 2**

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| ***Name :*** | *Corine land cover 2012 (revised), for the UK* |
| **Filename:** | CLC2012rev\_UK.shp |
| **Description:** | The final database for the UK:   * This layer, CLC2012revised, is an updated CLC2012 map for the UK. The 2012 map is updated during the process of change mapping in 2018. |
| **Projected Coordinate System:** | British National Grid |
| **Projection:** | Transverse Mercator |
| **Geographic Coordinate System:** | GCS\_OSGB\_1936 |
| **Datum:** | D\_OSGB\_1936 |

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**Dataset 3**

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| ***Name :*** | *Corine land changes (2012-2018) for the UK* |
| **Filename:** | CLC\_CHA12-18\_UK.shp |
| **Description:** | The final database for the UK:   * This layer, CLC-Changes (2012-2018), is the changes between 2012 and 2018. These changes were mapped directly. |
| **Projected Coordinate System:** | British National Grid |
| **Projection:** | Transverse Mercator |
| **Geographic Coordinate System:** | GCS\_OSGB\_1936 |
| **Datum:** | D\_OSGB\_1936 |

# Copernicus land CORINE metadata 2018

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| --- | --- |
| Title | Copernicus Land - CORINE land cover UK |
| Date | 2018-27-09 |
| Date type | Creation |
| Abstract | Corine Land Cover (CLC) 2018, CLC change 2012-2018 and CLC 2012 revised are three of the datasets produced within the frame of the Copernicus programme on land monitoring. Corine Land Cover (CLC) provides consistent information on land cover and land cover changes across Europe; these maps are the UK component of Europe. This inventory was initiated in 1985 (reference year 1990) and established a time series of land cover information with updates in 2000, 2006 and 2012 being the last iteration. CLC products are based on photointerpretation of satellite images by national teams of participating countries – the EEA member and cooperating countries – following a standard methodology and nomenclature with the following base parameters: 44 classes in the hierarchical three level Corine nomenclature; minimum mapping unit (MMU) of status layers is 25 hectares; minimum width of linear elements is 100 metres; minimum mapping unit (MMU) for Land Cover Changes (LCC) for the change layers is 5 hectares. The resulting national land cover inventories are further integrated into a seamless land cover map of Europe. Land cover and land use (LCLU) information is important not only for land change research, but also more broadly for the monitoring of environmental change, policy support, the creation of environmental indicators and reporting. CLC datasets provide important support to the implementation of key priority areas of the Environment Action Programmes of the European Union as protecting ecosystems, halting the loss of biological diversity, tracking the impacts of climate change, assessing developments in agriculture and implementing the EU Water Framework Directive, among others. More information about the Corine Land Cover (CLC) and Copernicus land monitoring data in general can be found at http://land.copernicus.eu/. |

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| --- | --- |
|  |  |
| Metadata  language | eng |
| Hierarchy level | Dataset |

1 Metadata compliant with the EEA Metadata Profile (INSPIRE compliant metadata with some extended elements) available at [http://forum.eionet.europa.eu/nrc\_land\_covers/library/gio-](http://forum.eionet.europa.eu/nrc_land_covers/library/gio-land/corine-land-cover-clc/technical-guidelines/metadata/country-level-metadata) [land/corine-land-cover-clc/technical-guidelines/metadata/country-level-metadata](http://forum.eionet.europa.eu/nrc_land_covers/library/gio-land/corine-land-cover-clc/technical-guidelines/metadata/country-level-metadata)

***Online resource***

|  |  |
| --- | --- |
| Linkage | <http://cdr.eionet.europa.eu/gb/eea/clc/envvlpnwa/> |
| Protocol | WWW:LINK-1.0-http--link |

## Point of contact

|  |  |
| --- | --- |
| Organisation  name | The University of Leicester |
| Role | Originator |
| Organisation  name | Defra |
| Role | Custodian |
| Organisation  name | European Environment Agency |
| Role | Point of contact |
| Organisation  name | European Commission - Directorate-General Enterprise and Industry (DG-ENTR) |
| Role | Owner |
| Topic category | Environment |
| Topic category | Imagery base maps earth cover |

## Keyword

|  |  |
| --- | --- |
| Keyword | Land cover |
| Keyword | Land use |
| Keyword | UK |
| Type | Place |

## Extent: Geographic bounding box

|  |  |
| --- | --- |
| West bound | -8.62 |
| East bound | 1.76 |
| South bound | 49.88 |
| North bound | 60.84 |

## Spatial resolution

|  |  |
| --- | --- |
| Denominator | 100000 |

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***Lineage***

|  |  |
| --- | --- |
| Statement | The Corine Land Cover database for the UK has been updated for the reference year 2018. The main objective of the project was the detection, identification and mapping of all land cover changes above 5 ha. Sentinel-2 and Landsat-8 satellite images from 2017 served as the basis for image interpretation. Aerial imagery from Google Earth was used to support the interpretation process. The EEA technical guidelines were followed for production using the InterChange support package for mapping CLC changes, and revising the 2012 map |

## Resource constraints

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| --- | --- |
| Use limitation | Access to data is governed by Commission delegated regulation (EU) No 1159/13 of 12.7.2013 supplementing Regulation (EU) No 911/2010 of the European Parliament and of the Council on the European Earth monitoring programme (GMES) by establishing registration and licensing conditions for GMES users and defining criteria for restricting access to GMES dedicated data and GMES service information. [[http://eur-](http://eur-/) lex.europa.eu/legal-content/EN/ TXT/?uri=CELEX%3A32013R1159] Although Regulation (EU) No 911/2010 was repealed by Regulation (EU) No 377/2014 of the European Parliament and of the Council of 3 April 2014 establishing the Copernicus Programme, any measure adopted on the basis of Regulation (EU) No 911/2010 shall remain valid under Article 33 (2) of Regulation (EU) No 377/2014 [<http://eur-lex.europa.eu/legalcontent/> EN/TXT/?uri=uri serv:OJ.L\_.2014.122.01.0044.01.ENG].  Without prejudice to the provisions contained in the Commission delegated regulation (EU) No 1159/13 (in particular under Chapters 2 and 3), 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 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.   1. Where that data or information has been adapted or modified, the user shall clearly state this.   In addition, articles I.10.2 (ownership/use of results) and I.10.4 (visibility) of grant agreement for an action established between EEA and the “participating country” for implementing the pan-European continental component of the Copernicus Land Monitoring service also apply, implying that any information and data produced in the framework of the action shall be the sole property of the European Union and that any communication and publication by the beneficiary shall acknowledge that the action was  carried out “with funding by the European Union”. |
| File identifier | CLC\_metadata\_UK |
| Metadata  language | eng |
| Character set | UTF-8 |

## Metadata author

|  |  |
| --- | --- |
| Organisation name | University of Leicester |

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| Role | Originator |
| Date stamp | 2021-06-01 |
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## Quality Control

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| Internal quality control | University of Leicester.  All of the Working Units (WUs) went through internal quality control. The finished units were checked by another interpreter of the team and in some cases were sent to an independent photo-interpreter. The WUs were checked using the InterCheck software provided as part of the CLC support package, using the same imagery and ancillary data as the initial interpreter. Comments were sent back to the original interpreter as exported shapefiles. These were then acted upon and implemented by the interpreters before the unit was completed. With this method every WU was interpreted separately by two different people. Thus, ensuring the quality of every WU. |
| External quality control | European Technical team (CTT)  The external verification consisted of two remote verifications by the European Technical Team (CTT) in February 2018 and June 2018. These verifications were performed to check that the production by the UK team was of a sufficient standard to guarantee a harmonised European CLC2018. The first external quality control consisted of two areas (approx. 1,500 km2 each) representing two working units from two different interpreters working on the project at the time, and the second verification (June 2018) checked a further 6 WUs, one for each of the interpreters who had worked on the project up to that point.  The external verification was carried out in much the same way as the internal verification. Detailed visual checks of the CLC2012revision and the CLC-Changes2012-2018 layers were made using the InterCheck software developed by ETC-SIA. The errors identified were marked in as points in a shapefile, with descriptive attributes, which were passed back to the interpretation team, along with a verification report, containing more detailed descriptions of the types of errors found in each WU. |

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# Acknowledgment

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