

1:50 000 Scale Colour Raster and 1:50 000 Scale Gazetteer

User guide and technical specification

1:50 000 Scale Colour Raster and 1:50 000 Scale Gazetteer

User guide

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Preface

This user guide (hereafter referred to as the guide) is designed to provide an overview of 1:50 000 Scale Colour Raster and 1:50 000 Scale Gazetteer (hereafter referred to as the product) and it gives guidelines and advice on how a customer might derive the maximum benefit from the product. It assumes a general knowledge of geographic information. If you find an error or omission in this guide, or otherwise wish to make a comment or suggestion as to how we can improve the guide, please contact us at the address shown below under contact details or complete the product and service performance report form at annexe C and return it to us.

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Our Customer Service Centre will be pleased to deal with your enquiries:

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General enquiries (calls charged at local rate): +44 (0)8456 05 05 05

Dedicated Welsh Language HelpLine: 08456 05 05 04

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Back-up provision of the product

You are advised to copy the supplied data to a backup medium.

Using this guide

The documentation is supplied in portable document format (PDF) only. Free Adobe® Acrobat Reader® software, which displays the guide, incorporates search and zoom facilities and allows you to navigate within. Hyperlinks are used to navigate between associated parts of the guide and to relevant Internet resources by clicking on the blue hyperlinks and the table of contents.

If you are unfamiliar with any words or terms used and require clarification please refer to the glossary at the end of the document.

Chapter 1 Introduction

1:50 000 Scale Colour Raster

1:50 000 Scale Colour Raster is a mid-scale product in Ordnance Survey's raster portfolio, providing a raster image of the popular OS Landranger Map series. 1:50 000 Scale Colour Raster is available in colour and in a number of file formats. An example of the data is shown in figure 1 below.



Figure 1: an extract of 1:50 000 Scale Colour Raster

1:50 000 Scale Colour Raster provides an image where the detail has been converted to a grid of pixels that can then be displayed on computer screens. The product covers all of Great Britain and is supplied as tiles aligned to the National Grid. Data is converted into a raster format at a resolution of 254 dots per inch (dpi) and a pixel is equivalent to 5 metres on the ground. This resolution has been chosen as it maintains the necessary clarity for text shown on the map.

The product can be overlaid with other Ordnance Survey products or a customer's own geographic/business data, besides providing a detailed geographic context in its own right.

1:50 000 Scale Colour Raster is produced to provide customers with a detailed product that could be made available in a number of different formats to provide either a map of an area when used on its own or as a means of providing geographic context to help a customer visualise their own data.

1:50 000 Scale Colour Raster is supplied as graphic image files that can easily be read by many image software packages. To view tiles in geographic relation to each other and to create the best context for its use with other Ordnance Survey or third-party data, it is recommended that it is used in a geographical information system (GIS).

As can be seen from the illustration above, the product provides an excellent overview of the main features and communication routes of an area, and this makes 1:50 000 Scale Colour Raster particularly useful for development and land-use planning, environmental impact analysis, vehicle routing, asset management, marketing analysis, and display and promotion purposes.

1:50 000 Scale Gazetteer

1:50 000 Scale Gazetteer is a list of distinctive place or feature names from 1:50 000 Scale Colour Raster, with location information. This enables you to easily locate places on the map, geocode your data and build search functionality into applications.

1:50 000 Scale Gazetteer contains entries for airports, farms, hills, woodlands, commons and other places, including over 42 000 cities, towns and settlements with coordinates to 1-km resolution.

1:50 000 Scale Gazetteer has the following features:

- National coverage is held in one seamless file, enabling you to find locations quickly with minimal data management.
- It contains every distinctive name featured on the 1:50 000 Scale Colour Raster product.
- It is updated in conjunction with the 1:50 000 Scale Colour Raster revision cycles, giving product consistency.
- Highly detailed, containing over 250 000 names, from farms to cities.

Chapter 2 Content

1:50 000 Scale Colour Raster

1:50 000 Scale Colour Raster shows the following features:

- · building blocks and important buildings;
- roads, public rights of way, cycle networks, paths, tracks;
- · vegetation type, Forestry Commission access land, National Trust land;
- · water features and associated detail;
- railways and associated detail;
- height information;
- · archaeological and antiquity information;
- administrative boundary information;
- text:
- tourist information including camping/caravan sites, gardens, golf courses, information centres, nature reserves, car parks, picnic sites, viewpoints and youth hostels; and
- · rock features.

1:50 000 Scale Gazetteer

1:50 000 Scale Gazetteer includes records for the following feature types:

- cities:
- towns;
- · water features:
- · forests or woods;
- farms*;
- · antiquities;
- hills or mountains; and
- other features, including those distinctive names not covered by the above classifications, for example, private houses, isolated buildings, airports, commons, greens and marshes.
- * Farms that do not contain the word 'farm' as part of the name will not be identified under this feature type; they will be listed as *other*.

The geographical location referenced by the gazetteer entry depends on the nature of the feature itself. For features with a definable extent, such as towns, cities and forests, the entry references the central geographic kilometre of the feature within the 1:50 000 scale mapping. For example, for an urban area, the most central point within its extents is used. This is likely to differ from the location of the urban area name on the mapping as this is usually placed outside of the town to avoid obscuring detail.

Other areas are applied based on the most logical location, for example, for a village crossing more than one kilometre square on 1:50 000 scale mapping, the kilometre with the most development is used.

For less easily definable features, the position of the name itself on the 1:50 000 scale mapping may be referenced. This also applies to extensive geographical features, such as mountain ranges and moorland.

Each record contains the information shown in table 1 below:

Table 1: record attributes

| Field number | Field name | Full name | Description | Example |
|--------------|-------------|---------------------|--|----------------|
| 1 | SEQ | Sequence number | Unique sequence number of the record. | 86124 |
| 2 | KM_REF | Kilometre reference | The National Grid 1 km by 1 km square the feature or centre of the feature falls within on the 1:50 000 scale mapping. | ST5265 |
| 3 | DEF_NAM | Definitive name | Distinctive name of the feature the record describes. | Felton |
| 4 | TILE_REF | Tile reference | The 1:50 000 Scale Colour Raster tile the feature or centre of the feature falls within. | ST46 |
| 5 | LAT_DEG | Latitude degrees | The latitude and longitude | 51 |
| 6 | LAT_MIN | Latitude minutes | degrees and minutes of the 1 km National Grid square | 23.1 |
| 7 | LONG_DEG | Longitude degrees | the feature or centre of the | 2 |
| 8 | LONG_MIN | Longitude minutes | feature falls within. | 41 |
| 9 | NORTH | Northings | National Grid position of the | 165500 |
| 10 | EAST | Eastings | centre point of the 1 km square the feature or centre of the feature falls within. | 352500 |
| 11 | GMT | Greenwich Mean Time | Position in relation to the Greenwich Meridian. | W |
| 12 | CO_CODE | County code | Code representing the county or unitary authority boundary the definitive name falls within. See annexe B for a list. | NS |
| 13 | COUNTY | County name | Abbreviated county or unitary authority name. | N Som |
| 14 | FULL_COUNTY | Full county name | Full county or unitary authority name. | North Somerset |
| 15 | F_CODE | Feature code | Describes what the feature is. See annexe C for complete list of definitions. 'T' represents town. | Т |
| 16 | E_DATE | Edit date | The date the record was last amended. | 01-MAR-2007 |
| 17 | UPDATE_CO | Update code | 'I' represents insert. 'A' represents amendment. 'D' represents deletion. | I A D |
| 18 | SHEET_1 | Primary sheet no | The OS Landranger Map | 172 |
| 19 | SHEET_2 | Second sheet no | sheet the feature name falls within. | 182 |
| 20 | SHEET_3 | Third sheet no | | 0 |

Chapter 3 Scale

1:50 00 Scale Colour Raster is derived from the source data used to create its graphic counterpart, the OS Landranger Map series.

Generalisation is used to emphasise, simplify, select and sometimes omit features to produce a cartographic representation of the landscape at a scale of 1:50 000.

The nominal scale of the product is 1:50 000, but recommended minimum-to-maximum scale range is 1:15 000 to 1:60 000 scale.

It is best viewed between 1:20 000 and 1:50 000 scale.

Coordinates

1:50 000 Scale Colour Raster is available in National Grid coordinates, which are expressed in metres relative to an origin set to a point west of the Isles of Scilly. These coordinates can easily be spatially related to other surveys, drawings, datasets or Ordnance Survey products. Customers can visit the British National Grid pages of Ordnance Survey's website for more information.

Coverage

1:50 000 Scale Raster is supplied in standard 20 km by 20 km tiles aligned to the National Grid.

Chapter 4 Formats

1:50 000 Scale Colour Raster comes in a number of file formats. These are:

- TIFF palette 8-bit (256 colours) uncompressed
- TIFF palette 8-bit (256 colours) with LZW compression
- Windows[®] BMP 8-bit colour (256 colours) uncompressed
- Windows BMP 8-bit colour (256 colours) with RLE compression
- PCX 8-bit (256 colours)

TIFF

TIFF is a file-based format for storing and interchanging raster images, with the most recent version (6.0) published in 1992.

There are two types of architecture for a TIFF. Many mainframe computers use what is known as a big-endian (Motorola®) architecture. Most modern computers, including personal computers (PCs), use the little-endian (Intel®) system. 1:50 000 Scale Colour Raster TIFFs are supplied with Motorola architecture. Converting between these two systems is possible but, as a general rule, modern software should be expected to handle both of these outputs without operator intervention.

1:50 000 Scale Colour Raster conforms to the TIFF 6.0 standard. Customers are recommended to contact their system suppliers to ensure that it can read the Motorola/big-endian TIFF architecture.

TIFF compressions explained

TIFF LZW is a lossless compression scheme that is supported by virtually all applications that can import TIFF graphics.

BMP

BMP files are a historic file format for the Windows operating system. A compressed BMP format is available using Run Length Encoding (RLE). RLE means that the file can be read from start to finish in one pass.

BMP structure

A BMP file consists of either three or four parts. The first part is a header that includes the position of the image and the number of colours to be displayed. This is followed by an information section that contains the image width (part 2), height (part 3) and the type of compression (part 4).

PCX

The PCX format is a relatively simple format that provides a minimum of compression using RLE.

PCX structure

The PCX file itself contains two parts: the first part is called the header, which contains information about the image; the second part is the image data that contains actual image data and colour information.

1:50 000 Scale Gazetteer is supplied as an ASCII colon-separated value file.

Chapter 5 Data compression

The data volumes for each file format are influenced by the level of data compression.

Image compression

When an image is compressed, duplicated data that has no value is removed or saved in a shorter form, reducing a file's size. For example, if large areas of water are the same tone, only the value for one pixel needs to be saved, together with the locations of the other pixels with the same colour. When the image is edited or displayed, the compression process is reversed. When raster data is compressed, not only are the data volumes reduced but the user can download, display, edit and transfer images more quickly.

There are two forms of compression: lossless and lossy:

Lossless compression

As its name suggests, lossless compression does not lose information within an image. A lossless compression retains the original quality of an image when it is uncompressed. This process does not provide much compression, so file sizes remain large. Lossless compression is used mainly where detail is important, such as when planning to make large prints.

Lossy compression

This process degrades images to some degree, meaning that the decompressed image is not quite the same as the original. The more an image is compressed, the more degraded it becomes. In many situations, such as posting images on the Internet or printing small- to medium-sized prints, the image degradation is not so obvious. If a lossy compressed image is over-enlarged, the degradation will become apparent and, therefore, 1:50 000 Scale Colour Raster is not supplied using this compression.

TIFF

TIFF is one of the most commonly used *lossless* image formats. TIFF is primarily designed for raster data interchange and is supported by numerous image-processing applications. This permits much more efficient access to very large files that have been compressed.

Chapter 6 Georeferencing

To be able to view each tile in the correct geographic relation to the National Grid and to each other, the tiles must be georeferenced. GIS typically provide georeferencing as part of their functionality, but for each set of tiles, it is necessary to provide the information on how the tiles should be ordered.

Ordnance Survey provides this information in a set of georeferencing files, also known as *World* files. A complete set for 1:50 000 Scale Colour Raster is available to download free of charge from the 1:50 000 Scale Colour Raster product page on the Ordnance Survey website.

There are several different types of *World* file. Prior to downloading one of the sets, customers are advised to check with their system suppliers to find out which type their system supports.

The conventions behind the files' creation can be found in chapter 4 of the technical specification. By using the conventions outlined there, this means that other datasets using the same conventions can be imported into the same GIS to add value to the raster map; for example, overlaying a routing or logistics network over the map or displaying a customer's demographic information.

The georeferencing files should be saved in the same directory as the files of the map tiles themselves.

Chapter 7 Revision

Both 1:50 000 Scale Colour Raster and 1:50 000 Scale Gazetteer are updated via a revision programme. The revision programme for both products mirrors that of the OS Landranger Map series and is determined by assessing the following factors:

- known surveyed change;
- change intelligence gathered from a range of sources; and
- consideration is given to how long since an area was last revised.

Priority is given to prestige sites categorised as significant items of change, such as major road construction projects. Significant items of survey change relevant to the scale are captured during the revision programme.

Where a line feature ends by intersecting the tile edge, it is matched with its corresponding feature on the adjacent tile so that both features end on the same unique coordinate. The representation of detail across the tile edge will be of a cartographically-acceptable standard when plotted or displayed at scale.

Changes are applied to the data and supplied to customers in June each year. For 1:50 000 Scale Colour Raster, only tiles that have changed since the previous supply are provided to help with customers' data management. The full national set of 1:50 000 Scale Gazetteer is supplied each year; changes are indicated by the update code (see chapter 2).

Chapter 8 Data measures

Ordnance Survey measures the data in its products in one or more of the ways set out in table 2 below.

Table 2 Definitions of data measures

| Data measure | Definition | Sub-measure | Definition |
|--|--|------------------------------|---|
| Completeness | Presence and absence of features against | Omission | Features representing objects that conform to the specified data content but are not present in the data |
| | the specified data content* | Commission | Features representing objects that do not conform to the specified data content but are present in the data |
| Logical consistency | Degree of adherence to logical rules of data structure, attribution and relationships | Conceptual consistency | How closely the data follows the conceptual rules (or model) |
| | | Domain consistency | How closely the data values in the dataset match the range of values in the dataset specification |
| | | Format consistency | The physical structure (syntax): how closely the data stored and delivered fits the database schema and agreed supply formats |
| | | Topological consistency | The explicit topological references between features (connectivity) – according to specification |
| Positional accuracy | Accuracy of the position of features | Absolute accuracy | How closely the coordinates of a point in the dataset agree with the coordinates of the same point on the ground (in the British National Grid reference system) |
| | | Relative accuracy | Positional consistency of a data point or feature in relation to other local data points or features within the same or another reference dataset |
| | | Geometric fidelity | The 'trueness' of features to the shapes and alignments of the objects they represent* |
| Temporal accuracy | Accuracy of temporal attributes and temporal relationships of features | Temporal consistency | How well ordered events are recorded in the dataset (life cycles) |
| | | Temporal validity (currency) | Validity of data with respect to time: the amount of real-world change that has been incorporated in the dataset that is scheduled for capture under current specifications |
| Thematic accuracy (attribute accuracy) | Classification of features and their attributes | Classification correctness | How accurately the attributes within the dataset record the information about objects* |

^{*}When testing the data according to the dataset specification against the 'real world' or reference dataset.

Annexe A Case studies

Creating the right environment for data management.

The Welsh Environmental Data Interface (WENDI)

Agriculture, forestry and woodland account for 90% of Wales' land use, generating a wealth of insightful statistical information. The National Assembly for Wales uses this data to inform policy, assist decision-making and help deliver a wide range of services to rural communities Read more at:

http://www.ordnancesurvey.co.uk/oswebsite/business/casestudies/pdf/welsh-environment-data-interface.pdf

Transport Direct

Underpinning multi mode transport services

Transport Direct is the first ever web portal giving instant access to comprehensive journey information by both public and private transport across Great Britain. It includes a journey planner, maps, live travel information and onward links to coach and rail fares and ticketing services from different travel retailers. As it develops, the portal will also incorporate services such as information on hotels, restaurants and other points of interest. Read more at:

http://www.ordnancesurvey.co.uk/oswebsite/products/osmastermap/layers/itn/casestudies/TransportDirectcasestudy.pdf

Annexe B Metadata

ISO 19115 compliant UK GEMINI discovery level metadata is provided for the data and can be found on the Glgateway[®] (www.gigateway.org.uk)

The following is a detailed description of the metadata elements that are provided on the Glgateway:

Title: The title of the product.

Abstract: The abstract gives a brief description of the product.

Currency: The currency takes the form of date of last update for the feature.

Lineage: The lineage metadata takes the form of product specification name and date of product specification.

Spatial extent: The spatial extent is supplied in the form of geographic identifiers (for example, England, Scotland and Wales) and in the form of geographic coordinates.

Spatial reference system: The spatial reference system for all products takes the form of a British National Grid system, namely OSGB36[®].

Data Format: Data format takes the form of the name of the format or formats the product is supplied in.

Frequency of updates: Frequency of update takes the form of a stated period of time.

Distributor contact details: Distributor contact details include with postal address, phone number, fax number, email address and website.

Data originator: Given as the company having primary responsibility for the intellectual content of the data source; in all cases this will be Ordnance Survey.

Other metadata available includes keywords, start date of data capture, access constraints, use constraints, level of spatial data, supply media and presentation details.

Annexe C Product and service performance report form

Ordnance Survey welcomes feedback from its customers about 1:50 000 Scale Colour Raster and 1:50 000 Scale Gazetteer.

If you would like to share your thoughts with us, please print a copy of this form and when completed post or

| Your name: Organisation: Address: |
|---|
| Address: |
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| Postcode: |
| Phone: |
| Fax: |
| Email: |
| Quotation or order reference: |
| Please record your comments or feedback in the space below. We will acknowledge receipt of your form within 3 working days and provide you with a full reply or a status report within 21 working days. |
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If you are posting this form, please send it to:

1:50 000 Scale Colour Raster and 1:50 000 Scale Gazetteer Product Manager, Ordnance Survey, Adanac Drive, SOUTHAMPTON, SO16 0AS.

If you wish to return it by fax, please dial +44 (0)8450 990494.

Any personal information that you supply with this report form will be used by Ordnance Survey only in the improvement of its products and services. It will not be made available to third parties.

1:50 000 Scale Colour Raster and 1:50 000 Scale Gazetteer

Technical specification

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Introduction

Purpose of this specification and disclaimer

This is the technical specification (hereafter referred to as the specification) applicable to the 1:50 000 Scale Colour Raster and 1:50 000 Scale Gazetteer (hereafter referred to as the product), which is referred to in the Framework Direct Licence, Specific Use Framework Partner Licence or your other customer contract for the product.

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Chapter 1 Specification

The following chapters include information about 1:50 000 Scale Colour Raster and (where applicable) 1:50 000 Scale Gazetteer data, file compression, symbology, georeferencing and formats.

1:50 000 Scale Colour Raster

Specification 1:50 000 Scale Colour Raster

Number of tiles in Great Britain 815 (edgematched)

England 421Scotland 338Wales 86

Tile size 20 km by 20 km

Availability National coverage

Resolution 254 dots per inch

Data structure Raster

Transfer format TIFF palette 8-bit (256 colours) uncompressed

TIFF palette 8-bit (256 colours) with LZW* compression Windows BMP 8-bit colour (256 colours) uncompressed

Windows BMP 8-bit colour (256 colours) with RLE compression

PCX 8-bit (256 colours)

Storage volumes per tile 10–18 Mb

Update frequency Annual update (see chapter 7 in the user guide)

1:50 000 Scale Gazetteer

Specification 1:50 000 Scale Gazetteer

Number of files covering Great Britain 1

Availability National coverage

Transfer format ASCII colon-separated value

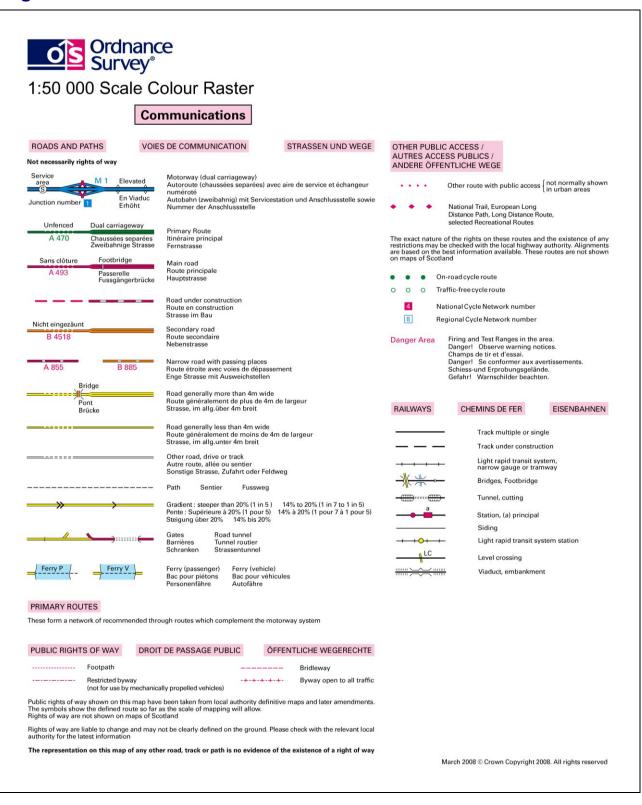
Storage volume 112 Mb

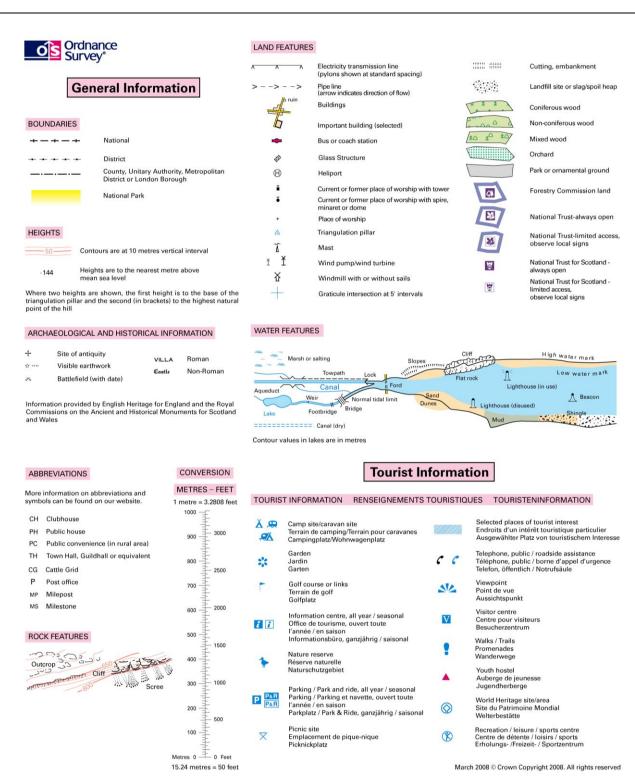
Update frequency Annual update (see chapter 7 in the user guide)

^{*} If LZW compressed formats are used then registration may be required. Guidance is available on the Unisys® website at www.unisys.com/about__unisys/lzw/.

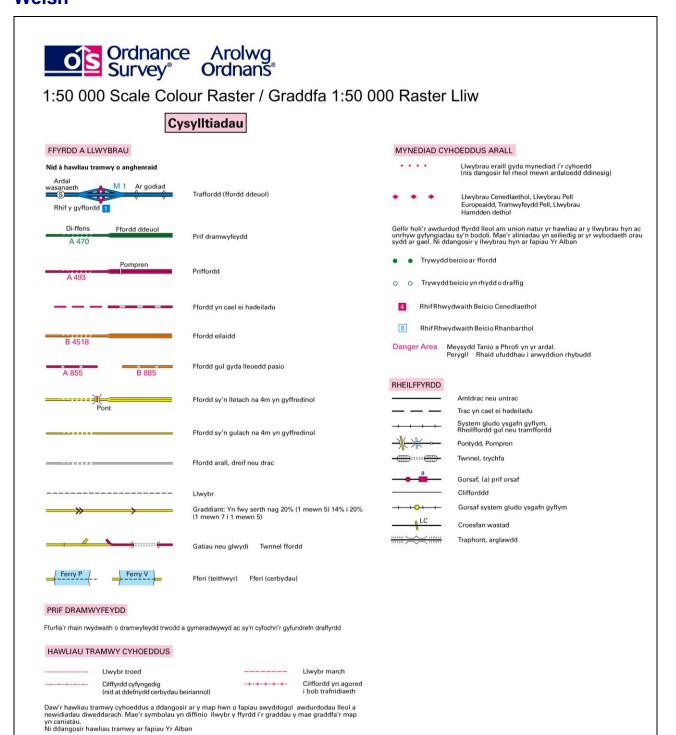
Chapter 2 Legend

English





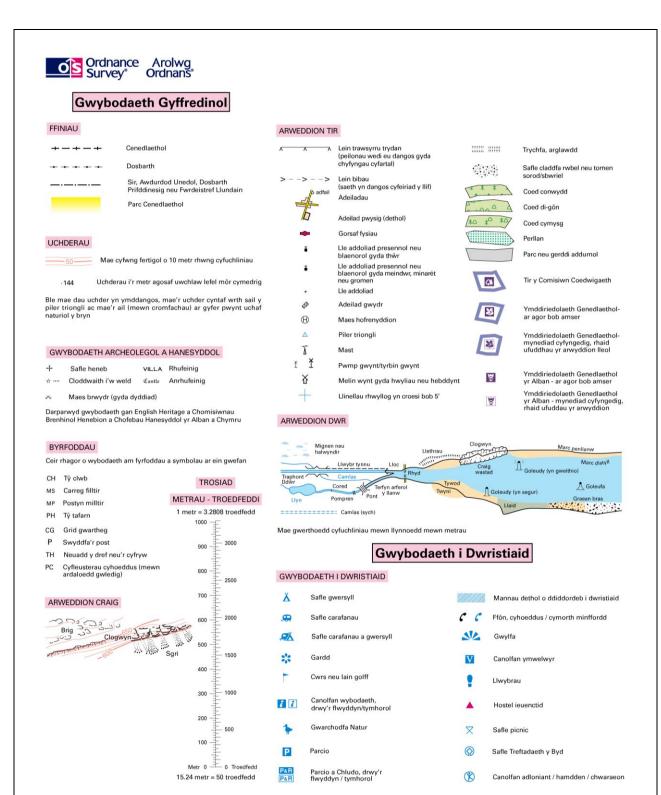
Welsh



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Mae hawliau tramwy yn gallu newid ac mae'n bosibl nad ydynt wedi'u diffinio'n eglur ar y tir. Holwch yr awdurdod lleol perthnasol am yr wybodaeth ddiweddaraf

Nid yw ymddangosiad unrhyw ffordd neu drac neu lwybr arall ar y map hwn yn profi bod hawl i dramwyo ar hyd-ddynt



Mawrth 2008 @ Hawlfraint y Goron 2008. Cedwir bob hawl

Chapter 3 Georeferencing

A definition for registering raster images within a geographic framework is the process of assigning map coordinates to the raster image data and resampling the pixels of the image to conform to the map projection grid. This allows tiles of map data to be located in their correct geographic position relative to the map projection and also to themselves.

Great Britain is surveyed and mapped using the Transverse Mercator (or Gauss-Kruger) projection, so all raster tiles will be mapped to this projection as it applies to Ordnance Survey National Grid if using *World* or TAB files supplied by Ordnance Survey.

Within the MIF record header the following information will be found under COORDSYS:

CoordSys Earth Projection 8, 79, "m", -2, 49, 0.9996012717, 400000, -100000 Bounds (4.17232513428e-011, 7.7486038208e-011) (700000, 1300000)

This information relates to the Transverse Mercator projection, its position relative to the rest of the world and also an individual tile's position relative to the projection. The record header is constructed as (not all fields have to be used):

| CoordSys Earth Projection 8 | The 8 relates to a ${\sf MapInfo}^{\it @}$ identifier, in this case the Transverse Mercator projection. |
|---|--|
| 79 | A MapInfo identifier, in this case, this relates to Ordnance Survey of Great Britain 1936, Airy ellipsoid. |
| "m" | Relates to the unit of measurement, in this case, metres. |
| -2 | This is the origin of the projection in respect of longitude. |
| 49 | This is the origin of the projection in respect of latitude. |
| 0.9996012717 | Indicates the distortion of the tile at the central meridian. A value of 1.0 would indicate no distortion at all. However, distortion within this projection is minimal, even at the far western or eastern limits. |
| 400000, -100000 | These figures indicate the false origin of the British National Grid. They represent the south-west corner of the Transverse Mercator projection which overlays Great Britain, so all coordinates for any tile, no matter what scale, will always be positive. |
| Bounds: (4.17232513428e- 011, 7.7486038208e-011) | These values represent the minimum bounding X and Y coordinates for the tile. |
| (700000, 1300000) | These values represent the maximum bounding X and Y coordinates for the tile. |

Chapter 4 Image file directory (TIFF)

The image file directory for TIFF will contain a selection of the following entries:

Tag 254 (NewSubfileType)

An indication of the kind of data contained in this sub-file, for example, value = 0

Tag 256 (ImageWidth)

The number of columns in the image, the number of pixels per row, for example, value = 4000

Tag 257 (ImageLength)

The number of rows of pixels in the image, for example, value = 4000

Tag 258 (BitsPerSample)

Number of bits per component, for example, value = 8

Tag 259 (Compression)

Compression scheme used on the image data, for example, value = 5 (LZW)

Tag 262 (Photo.Interpretation)

The colour space of the image data, for example, value = 3 (RGB Palette).

Tag 270 (ImageDescription)

A string that describes the subject of the image, for example, value = 1:50 000 SU40

Tag 273 (StripOffsets)

For each strip, the byte offset of that strip, for example, 1st 4 values = 17833 20210 23238 26061

Tag 278 (RowsPerStrip)

The number of rows in each strip, for example, value = 2

Tag 279 (StripByteCounts)

For each strip, the number of bytes in that strip after compression, for example, 1st 4 values = 2377 3028 3823 2922

Tag 282 (XResolution)

The number of pixels per ResolutionUnit in the ImageWidth, for example, value = 254/1

Tag 283 (YResolution)

The number of pixels per ResolutionUnit in the ImageLength, for example, value = 254/1

Tag 296 (ResolutionUnit)

Units used for resolution, for example, value = 2 (Inch)

Tag 306 (DateTime)

Date and time of image creation, for example, value = 2006:06:30 12:38:41

Tag 320 (ColourMap)

Lookup table, for example, value = 1st 4 values = 55512 11308 51657 47288

Tag 33432 (Copyright)

Copyright notice, for example, value = ORDNANCE SURVEY CROWN COPYRIGHT 2007

NOTE: The values given above are relevant to 1:50 000 scale TIFF data using LZW compression.

TIFF

Colour image directory (TIFF)

| | Tag number | TIFF 8-bit uncompressed | TIFF 8-bit LZW compressed |
|---------------------------|------------|---|---|
| File Byte Order : | | MM (Big-endian) | MM (Big-endian) |
| Magic Number : | | 42 | 42 |
| Number of fields in IFD : | | 16 | 16 |
| NewSubfileType | 254 | 0 | 0 |
| Image Width | 256 | 4000 | 4000 |
| ImageLength | 257 | 4000 | 4000 |
| BitsPerSample | 258 | 8 | 8 |
| Compression | 259 | 1 (Uncompressed) | 5 (LZW) |
| Photo.Interpretation | 262 | 3 (RGB Palette) | 3 (RGB Palette) |
| ImageDescription | 270 | 1:50000 TILE SU40 | 1:50000 TILE SU40 |
| XResolution | 282 | 254/1 | 254/1 |
| YResolution | 283 | 254/1 | 254/1 |
| ResolutionUnit | 296 | 2 (Inch) | 2 (Inch) |
| DateTime | 306 | 2006:09:20 11:20:04 | 2006:09:20 11:20:04 |
| ColorMap | 320 | 1st 4 values = 55512 11308 51657 47288 | 1st 4 values = 55512 11308 51657 47288 |
| Copyright | 33432 | ORDNANCE SURVEY CROWN COPYRIGHT 2007 | ORDNANCE SURVEY CROWN COPYRIGHT 2007 |

The tag values listed in the above table are relevant to 1:50 000 scale Motorola TIFF raster data.

It should be noted that customers can access tag information from a raster file image by right-clicking on a TIFF data image and looking at properties, and then left-clicking on summary.

Annexe A Glossary

The purpose of this chapter is to provide a glossary of terms used in the definition of products, services, licensing and other terms and conditions for 1:50 000 Scale Colour Raster and 1:50 000 Scale Gazetteer.

American Standard Code for Information Interchange (ASCII)

A standard binary coding system used to represent characters within a computer.

binary digit (bit)

The smallest possible unit of data, resulting from a choice between 0 and 1.

boundary

A boundary forms the division between two similar real-world objects, for example, property boundary or administrative boundary, and is defined by one or more lines.

byte

A unit of computer storage of binary data, usually comprising 8 bits, equivalent to a character.

character

A distinctive mark; an inscribed letter; one of a set of writing symbols.

character code

The binary representation of a single element of a character set, for example, EBCDIC, ASCII.

coordinate pair

A coordinate pair is an easting and a northing.

coordinate transformation

A computational process of converting an image or map from one coordinate system to another.

compact disc

Read-only memory (CD-ROM). A data storage medium. A 12-cm disc similar to the audio CD. It is an alloy disc pitted with tiny holes and then coated in plastic. A laser head reads the pattern of the holes and translates them into binary data.

copyright

The sole legal right to print or publish a work. Crown copyright subsists in all Ordnance Survey publications for a 50-year period, from the end of the year in which they were first published, by virtue of the *Copyright Designs and Patents Act 1988*.

customer

An organisation or individual that makes use of Ordnance Survey's data supply facilities. This includes both direct sales customers of Ordnance Survey as well as customers of Licensed Partners. It does not include anyone, or any organisation, that has access to Ordnance Survey material without charge.

data

A representation of facts, concepts or instructions in a formalised manner suitable for communication, interpretation or processing.

database

An organised, integrated collection of geographic data that may or may not be spatial data. It is stored so those specific applications can access the data by different logical paths. A database is accessed and managed by a database management system (software for managing database information).

data format

A specification that defines the order in which data is stored or a description of the way data is held in a file or record.

data quality

Attributes of a dataset that define its suitability for a particular purpose, such as completeness, positional accuracy, currency and so on.

data structure

The defined logical arrangement of data as used by a system for data management; a representation of a data model in computer form.

data transfer medium

This is the means by which computer files are transferred from one computer to another. Transfer media may be subdivided into communications media and physical media.

dataset

Data as supplied in a particular format to customers, whether internal or external to Ordnance Survey.

density

A measure of the number of units of data held on a stated length of storage surface. For example, some magnetic tapes may be recorded at a density of 1 600 bits per inch (bpi). Often referred to as packing density.

delivery mechanism

The method of supply of data to a customer (such as offline and online).

descriptive name

A name describing a real-world object or feature (for example, *School*) as shown on the 1:50 000 Scale Colour Raster map.

definitive name

The name as shown on the 1:50 000 Scale Colour Raster map.

digital

Data that is expressed as numbers (digits) in computer-readable form.

digital update

The supply of revised digital data to a customer at a predetermined interval of time.

direct sale

A direct transaction between Ordnance Survey and a customer.

distinctive name

A text feature that forms a name that distinguishes it from other text features of the same type, for example, *Millbrook School*.

dots per inch (dpi)

The resolution, or fineness, of a raster image.

eastings

See rectangular coordinates.

JPEG

An image named after the Joint Photographic Experts Group, it uses a lossy compression format. It is designed for compressing full colour or greyscale images of natural, real-world scenes and works well on photographs. It is the defacto standard for photographs on the web.

encoding

The process of converting information to a computer-readable form, for example, digitising maps.

feature

A geographic entity such as a building or stream, either taken from a map or surveyed directly from the real world. Can be a point/symbol, text or line.

format

The specified arrangement of data, for example, the layout of a printed document, the arrangement of the parts of a computer instruction or the arrangement of data in a record.

generalisation

The cartographic process of simplifying the depiction of features to fit the output scale. For example, road widening is necessary at smaller scales to enhance their visibility.

geocode

Assigning a geographic location to data, for example, adding coordinates to an address.

geographic coordinates

Coordinates, usually expressed as latitudes and longitudes, which define position on the Earth's surface.

georeference

A definition for registering raster images within a geographic framework is the process of assigning map coordinates to the raster image data and resampling the pixels of the image to conform to the map projection grid.

gigabyte (Gb)

1 073 741 824 bytes, a measure of data storage capacity (see megabyte).

kilobyte (Kb)

1 024 bytes, a measure of data storage capacity.

Licensed Partner

Any organisation that has entered into a formal licence agreement with Ordnance Survey to market map information or to incorporate map data with their application or service.

linear feature

Map feature in the form of a line (for example, river, and boundary) that may or may not represent a real-world (existent) feature.

local origin

The local origin of rectangular coordinates is the south-west corner of the 1 km by 1 km National Grid square they identify.

map scale

The ratio between the extent of a feature on the map and its extent on the ground, normally expressed as a representative fraction, for example, 1:1250, 1:50 000 and so on.

megabyte (Mb)

1 048 576 bytes, a measure of data storage capacity (see gigabyte).

MIF

(MapInfo format)

National Grid

The metric grid on the Transverse Mercator projection used by Ordnance Survey on all post-Second World War mapping to provide an unambiguous spatial reference in Great Britain for any place or entity, whatever the map scale.

northings

See rectangular coordinates.

Oracle[®]

The relational database management system used for the 1:50 000 Scale Gazetteer.

origin

The zero point in a system of rectangular coordinates.

pixel

In the 1:50 000 scale product, a pixel is a single point represented by a square.

points

A pair of coordinates.

raster data

Attribute data expressed as an array of pixels, with spatial position implicit in the ordering of the pixels.

real-world object

The real-world feature represented by a feature, for example, a building, a fence, a wood.

rectangular coordinates

Also known as x-y coordinates and as eastings and northings. These are two-dimensional coordinates that measure the position of any point relative to an arbitrary origin on a plane surface (for example, a map projection, a digitising table or a VDU screen).

stipple

Used to produce light or dark shading (for example, building/water fill); this is dependent on spacing of the dots – the denser the dots, the darker the effect.

string

A set of items that can be arranged into a sequence according to a rule.

supply format

The file format in which the data is supplied to the customer.

TAB

MapInfo format.

tag

Tags are unique numbers that are used for identifying specific information in TIFF files, for example, image width, image length, bits per sample, photo interpretation and resolution.

terminator

Character, or character string, or field, or record used to signal the end of a record, or section, or volume or database.

tile

A unit of map used to divide large areas into regular and more manageable sizes.

TIFF

TIFF is a tagged image file format-based file format for storing and interchanging raster images, with the most recent version (6.0) published in 1992.

transfer format

The format used to transfer data between computer systems. In general usage, this can refer not only to the organisation of data but also to the associated information, such as attribute codes that are required in order to successfully complete the transfer.

transfer medium

The physical medium on which digital data is transferred from one computer system to another. For example, compact disc.

UNIX®

An operating system that supports multitasking and is used by many workstations and minicomputers.

update

The process of adding to and revising existing digital map data to take account of change.

volume

A physical unit of the transfer medium such as a single disk or a single CD.

Annexe B 1:50 000 Scale Gazetteer county code list

A full list of all the county codes in fields 12 (CO_CODE), 13 (COUNTY) and 14 (FULL_COUNTY) is below:

| CO CODE | COUNTY | FULL_COUNTY |
|---------|-----------------|------------------------------|
| AB | Aberd | Aberdeenshire |
| AG | Angus | Angus |
| AN | C of Aber | Aberdeen City |
| AR | Arg & Bt | Argyll and Bute |
| ВА | Brad | Bradford |
| BB | Black w Dar | Blackburn with Darwen |
| ВС | Brackn | Bracknell Forest |
| BD | Bark & Dag | Barking & Dagenham |
| BE | Brig | Bridgend |
| BF | Beds | Bedfordshire |
| BG | Blae Gw | Blaenau Gwent |
| ВН | C of Bri & Hov | City of Brighton and Hove |
| ВІ | Birm | Birmingham |
| BL | Barns | Barnsley |
| BM | Bucks | Buckinghamshire |
| BN | Barnet | Barnet |
| во | Bolton | Bolton |
| BP | Blackp | Blackpool |
| BR | Brom | Bromley |
| BS | Bath & NE Somer | Bath and North East Somerset |
| ВТ | Brent | Brent |
| BU | Bourne | Bournemouth |
| BX | Bexley | Bexley |
| BY | Bury | Bury |
| BZ | C of Bris | City of Bristol |
| CA | Cald | Calderdale |
| СВ | Cambs | Cambridgeshire |
| CD | Card | Cardiff |
| CE | Cered | Ceredigion |
| CF | Caer | Caerphilly |
| CH | Ches | Cheshire |
| CL | Clackm | Clackmannanshire |
| СМ | Camden | Camden |
| CN | Corn | Cornwall |
| СТ | Carm | Carmarthenshire |
| CU | Cumbr | Cumbria |
| CV | Cov | Coventry |
| CW | Conwy | Conwy |
| CY | Croy | Croydon |
| DB | C of Derb | City of Derby |
| DD | C of Dun | Dundee City |
| DE | Denb | Denbighshire |
| DG | D & G | Dumfries and Galloway |
| DL | Darl | Darlington |
| DN | Devon | Devon |
| DR | Donc | Doncaster |
| DT | Dorset | Dorset |
| DU | Durham | Durham |
| DY | Derby | Derbyshire |

| CO_CODE | COUNTY | FULL_COUNTY |
|---------|---------------|---------------------------------------|
| DZ | Dudley | Dudley |
| EA | E Ayr | East Ayrshire |
| EB | C of Edin | City of Edinburgh |
| ED | E Dunb | East Dunbartonshire |
| EG | Ealing | Ealing |
| EL | E Loth | East Lothian |
| EN | Enf | Enfield |
| ER | E Renf | East Renfrewshire |
| ES | E Susx | East Sussex |
| EX | Essex | Essex |
| EY | E Yorks | East Riding of Yorkshire |
| FA | Falk | Falkirk |
| FF | Fife | Fife |
| FL | Flint | Flintshire |
| GH | Ghead | Gateshead |
| GL | C of Glas | Glasgow City |
| GR | Glos | Gloucestershire |
| GW | Gren | Greenwich |
| GY | Gwyn | Gwynedd |
| HA | Halton | Halton |
| HD | Herts | Hertfordshire |
| HE | Heref | Herefordshire |
| HF | Ham & Ful | Hammersmith & Fulham |
| HG | Hargy | Haringey |
| HI | Hill | Hillingdon |
| HL | Highld | Highland |
| HN | Hack | Hackney |
| HP | Hants | Hampshire |
| HR | Harrow | Harrow |
| HS | Houns | Hounslow |
| HT | Hartpl | Hartlepool |
| HV | Hav | Havering |
| IA | I of Angl | Isle of Anglesey |
| IL | Isling | Islington |
| IM | I of M | Isle of Man |
| IN | Inverc | Inverclyde |
| IS | I Scilly | Isles of Scilly |
| IV | C of Inv | City of Inverness |
| IW | I of W | Isle of Wight |
| KC | Ken & Ch | Royal Borough of Kensington & Chelsea |
| KG | King | Kingston upon Thames |
| KH | C of K upon H | City of Kingston upon Hull |
| KL | Kirk | Kirklees |
| KN | Know | Knowsley |
| KT | Kent | Kent |
| LA | Lancs | Lancashire |
| LB | Lam | Lambeth |
| LC | C of Leic | City of Leicester |
| LD | Leeds | Leeds |
| LL | Lincs | Lincolnshire |
| LN | Luton | Luton |
| LO | C of Lon | City of London |
| LP | Liv | Liverpool |
| | ı —· • | o.poo. |

| LS Lew Levissarshire LT Leic Leicestershire MA Man Manchester MB Midd Middlesbrough ME Medway Medway MI Midlo Midlothian MK Mil Key Milton Keynes MM Monn Mormoutshire MM Morn Moray MR Merton Merton MT Merton Merton MT Merth Tyd Merthyr Tydfil NA N Ayr North Ayrshire NC NE Lincs North East Lincolnshire ND Northum Northmoberland NE Newp Newport NB Newp Newport NB Newp Newport Newport NB Newp Newport NB Newp Newport Newport NB Newport Newport NB N Sunth Newport Newport NB | CO CODE | COUNTY | FULL COUNTY |
|--|---------|--------|----------------|
| MA Man Manchester MB Midd Middlesbrough ME Medway Medway MI Midlo Midlothian MI Midlo Midlothian MK Milkey Milton Keynes MM Mon Month Momouthshire MO Moray Moray MR Merton Merton MR Merton Merton MR Merton Merton MR Merton Merton MR Merton Merthyr Tydfil NA N Ayr North Ayrshire NC NE Lincs North Ayrshire ND North Ayrshire ND North Manch Merthyr Tydfil NA N Ayr North Ayrshire ND North Manch North Ayrshire ND North Manch North Ayrshire ND North Lancas North Sometal NB N Lines North Lincolnshire NB | _ | | |
| MA Man Manchester MB Midd Middlesbrough ME Medway Medway MI Midlo Midlothian MI Midlo Midlothian MK Milkey Milton Keynes MM Mon Monmouthshire MO Moray Moray MR Merton Merton MR Merton Merton MR Merton Merton MR Merton Merton MR Merton Merthyr Tydfil NA N Ayr North Ayrshire NC NE Lincs North Ayrshire ND North Marth Merthyr Tydfil NA N Ayr North Ayrshire ND North Ayrshire North Ayrshire ND North Ayrshire North Ayrshire ND North Ayrshire North Ayrshire NK Norff Someration North Someration NE North Lincolnshire North | | Leic | Leicestershire |
| MB Midd Middlesbrough ME Medway Medway MI Midlo Midlothian MI Mid Key Milton Keynes MM Monm Monmouthshire MO Moray Moray MR Merton Merton MR Merton Merton MT Merth Tyd Merthy Tydfil NA NAY North Ayrshire NC NE Lincs North Ayrshire NC NE Lincs North Ayrshire ND Northum Northumberland NE Newp Newport NB Newp Newport NB Newp Newport NB Newham Newport NB N Lincs North Lincolnshire NB N Lincs North Lincolnshire NK Norf Norfolk NL N Lanak North Lincolnshire NK North Port Allost North Somerise | MA | | |
| ME Medway Medway MI Miclo Midlothian MK Mil Key Milton Keynes MM Monm Monmouthshire MO Moray Moray MR Merton Merton MR Nary North Ayrshire NC NE Linco ND Northum Northumberland NE Newport Newport NG C of Nott City of Nottingham NB Newport Newport NG C of Nott City of Nottingham NH Newham Newport NH North Canackante North Lanarkshire NK Norf Nortfolk NL N Lanak </td <td></td> <td></td> <td></td> | | | |
| MI Midlo Midlothian MK Mil Key Milton Keynes MM Monm Monmouthshire MO Moray Moray MR Merton Merton MT Merth Tyd Merthyr Tydfil NA N Ayr North Ayrshire NC NE Lincs North Ayrshire ND Northum Northumberland NE Newp Newport NE Newport Northumberland NE Newport Northumberland NE Newport Northumberland NE North Northumberland NH North Northumberland NH North Northumberland NE < | | | |
| MK Mil Key Milton Keynes MM Monm Monmouthshire MO Moray Moray MR Merton Merton MR Nayr North NA N Ayr North ND Northum North Ayrshire ND Northum North Ayrshire ND Northum North Ayrshire ND Northum Northum NE Northum Northum NB North Northolk NL N Lanak North Claushire NB Nth Pt Talb Neath Port Talbot NB Nth Pt Talb Neath Port Talbot NB N Tyne North Somerset NT N | | • | |
| MM Monm Momouthshire MO Moray Moray MR Menton Merton MT Merth Tyd Merthyr Tydfil NA N Ayr North Ayrshire NC NE Lincs North East Lincolnshire ND Northum Northumberland NE Newp Newport NB Northum Northumberland NE Newp Newport NB Northum Northumberland NE Newp Newport NB N Lincs North Lincolnshire NK Norf Norfolk NL N Lincs North Lincolnshire NK Norf Norfolk NL N Lincs North Lincolnshire NK | | | |
| MO Moray Moray MR Merton Merton MT Merth Tyd Merthyr Tydfil NA N Ayr North Ayrshire NC NE Lincs North East Lincolnshire ND Northum Northumberland NE Newp Newport NE Newport Newport NE Newport Newport NE Newham Newport NE Newham Newport NE North Northolk NL N Lincs Northolk NL N Lincs North Lincolnshire NK Norf Dolk North Lanarkshire NK North Lanarkshire North Lanarkshire NK North Lanarkshire North Lanarkshire | | | |
| MR Merton Merton MT Merth Tyd Merthyr Tydfil NA N Ayr North Ayrshire NC NE Lincs North East Lincolnshire ND Northurm North East Lincolnshire NB Newp Newport NB C of Nott City of Nottingham NH Newham Newham NH Newham Newham NI N Lincs North Lincolnshire NK Norf Norfolk NK Norf Norfolk NK Norf Norfolk NL N Lanak North Lincolnshire NK Norf Norfolk NK Norf Norfolk NL N Lanak North Lincolnshire NK Norf Norfolk NL N Lanak North Lanarkshire NK Norf North Dynsside NL N Lanak North Lanarkshire NE N Som North Lanarkshire <td></td> <td></td> <td></td> | | | |
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| NC NE Lincs North East Lincolnshire ND Northum Northumberland NE Newp Newport NG C of Nott City of Nottingham NH Newham Newham NH Newham Newham NI N Lincs North Lincolnshire NK Norf Norfolk NK Norf Norfolk NK Norf Norfolk NK Norfolk North Samerise NK Northamptonshire North Somerise NN Northamptonshire North Someriset NR N Tyne North Tyneside NS N Som North Tyneside NS N Som | | | |
| ND Northum Northumberland NE Newp Newport NG C of Nott City of Nottingham NH Newham Newham NI N Lincs North Lincolnshire NK Norf Norfolk NL N Lanak North Lanarkshire NN Northts Northamptonshire NN Northts Northamptonshire NN Norths North Port Talbot NR N Tyne North Tyneside NS N Som North Somerset NT Notts Nottinghamshire NW N upon Ty Newcastle upon Tyne NY N Yks North Yorkshire OH Oldham Oldham OK Orkney Orkney Islands ON Oxon Oxfordshire PB Pemb Pembrokeshire PE C of Peterb City of Peterborough PK Pth a Kin Perth and Kinross PL | | | - |
| NE Newp Newport NG C of Nott City of Nottingham NH Newham Newham NI N Lincs North Lincolnshire NK Norf Norfolk NL N Lanak North Lincolnshire NK Norf Northolk NL N Lanak North Lincolnshire NN Northnts Northamptonshire NN Northts Northamptonshire NP Nth Pt Tallb Neath Port Talbot NR N Tyne North Tyneside NS N Som North Somerset NT Notts | | | |
| NG C of Nott City of Nottingham NH Newham Newham NI N Lincs North Lincolnshire NK Norf Norfolk NL N Lanak North Lanarkshire NN Northnts Northamptonshire NP Nth Pt Talb Neath Port Talbot NR N Tyne North Somerset NT Notts Nottinghamshire NW N upon Ty Newcastle upon Tyne NY N Yks North Yorkshire OH Oldham Oldham OK Orkney Orkney Islands ON Oxon Oxfordshire PE C of Petrob City of Peterborough PK Pth & Kin Perth and Kinross PL Poole Poole PO C of Port City of Portsmouth PW Powys Powys PY C of Plym City of Plymouth RB Redbr Redbridge RC Red & Cl Redcar & Cleveland RD Roch Rochdale RE Renf Renfrewshire RD Roth Rother Redbridge RC Red Read Reading RH Rho Cyn Taf Rhondda, Cynon, Taff RL Rut Rutland SE Sefton Sefton SE Sefton Sefton Sefton SE Sefton Sefton Setfon SE Staffs Staffordshire | | | |
| NH Newham Newham NI N Lincs North Lincolnshire NK Norf Norfolk NL N Lanak North Lanarkshire NN Northnts North Amptonshire NP Nth Pt Talb Neath Port Talbot NR N Tyne North Tyneside NS N Som North Somerset NT Notts Nottinghamshire NW N upon Ty Newcastle upon Tyne NY N Yks North Yorkshire OH Oldham Oldham OK Orkney Orkney Islands ON Oxon Oxfordshire PB Pemb Pembrokeshire PE C of Peterb City of Peterborough PK Pth & Kin Perth and Kinross PL Poole Poole PO C of Port City of Pottsmouth PW Powys Powys PY C of Plym City of Pottsmouth RB R | | | • |
| NI N Lincs North Lincolnshire NK Norf Norfolk NL N Lanak North Lanarkshire NN Northnts North April Lanarkshire NN Noth Pt Talb Neath Port Talbot NR N Tyne North Tyneside NS N Som North Somerset NT Notts Nottinghamshire NW N upon Ty Newcastle upon Tyne NY N Yks North Yorkshire OH Oldham Oldham OK Orkney Orkney Islands ON Oxon Oxfordshire PB Pemb Pembrokeshire PE C of Peterb City of Peterborough PK Pth & Kin Perth and Kinross PL Poole Poole PO C of Port City of Portsmouth PW Powys Powys PY C of Plym City of Plymouth RB Redbr Redbridge RC | | | , |
| NK Norf Nchrolk NL N Lanak North Lanarkshire NN Northnts Northamptonshire NP Nth Pt Talb Neath Port Talbot NR N Tyne North Tyneside NS N Som North Somerset NT Notts Nottinghamshire NW N upon Ty Newcastle upon Tyne NY N Yks North Yorkshire OH Oldham Oldham OK Orkney Orkney Islands ON Oxon Oxfordshire PB Pemb Pembrokeshire PE C of Peterb City of Peterborough PK Pth & Kin Perth and Kinross PL Poole Poole PO C of Port City of Portsmouth PW Powys Powys PY C of Plym City of Plymouth RB Redbr Redbridge RC Red & Cl Redcar & Cleveland RC Read Reading RH Rho Cyn Taf Rhondda, Cynon, Taff RL Rut Rutland RT Rich Rothers SH Salford SE Sefton Sefton SF Staffs Staffordshire | | | |
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| CO_CODE COUNTY FULL_COUNTY | |
|--------------------------------------|--|
| SH Shrops Shropshire | |
| SI ShetId Shetland Islands | |
| SJ C of Stoke City of Stoke-on-Trent | |
| SK Suff Suffolk | |
| SL S Lanak South Lanarkshire | |
| SM Stock on T Stockton-on-Tees | |
| SN St Hel St Helens | |
| SO C of Soton City of Southampton | |
| SP Sheff Sheffield | |
| SQ Sol Solihull | |
| SR Stir Stirling | |
| SS Swan Swansea | |
| ST Somer Somerset | |
| SU Surrey Surrey | |
| SV Sund Sunderland | |
| SW Sthwk Southwark | |
| SX S Ayr South Ayrshire | |
| SY S Tyne South Tyneside | |
| SZ Sutton Sutton | |
| TB Torbay Torbay | |
| TF Torf Torfaen | |
| TH T Ham Tower Hamlets | |
| TR Traf Trafford | |
| TS Tames Tameside | |
| TU Thurr Thurrock | |
| VG V of Glam The Vale of Glamorgan | |
| WA Wals Walsall | |
| WB W Berks West Berkshire | |
| WC Win & Maid Windsor and Maidenhead | |
| WD W Dunb West Dunbartonshire | |
| WE Wakf Wakefield | |
| WF Wal F Waltham Forest | |
| WG Warr Warrington | |
| WH C of Wolv City of Wolverhampton | |
| WI N Eil Na h-Eileanan an Iar | |
| WJ Wok Wokingham | |
| WK Warw Warwickshire | |
| WL W Loth West Lothian | |
| WM C of West City of Westminster | |
| WN Wigan Wigan | |
| WO Worcs Worcestershire | |
| WP Wrekin Telford and Wrekin | |
| WR Wirral Wirral | |
| WS W Susx West Sussex | |
| WT Wilts Wiltshire | |
| WW Wan Wandsworth | |
| WX Wrex Wrexham | |
| YK York York | |
| YS Sou-on-Sea Southend-on-Sea | |
| YT Slough Slough | |
| YY Stock Stockport | |

Annexe C 1:50 000 Scale Gazetteer feature code list

| Feature code | Description |
|--------------|--|
| А | Non-Roman antiquity: shown on the OS Landranger Map in Lutheran type. |
| F | Forest or wood: named areas on the OS Landranger Map identified by a green colour fill. |
| FM | Farm: all buildings named on the OS Landranger Map with the text string 'Farm' or 'Fm' as part of their name. These features can include private houses that include 'Farm' as part of their name. NOTE: Not all farms shown on OS Landranger Maps are covered under this classification as their names, especially in Wales, do not contain the word 'Farm'. |
| Н | Large hill features or mountains with a minimum height difference of 30 metres (three ring contours): hills are only named where their name has been selected for depiction on the OS Landranger Map and the feature contains three contour lines. If less than three contour lines are present, classification 'X' is used. Spurs, saddles and slopes are not classified. |
| R | Roman antiquity: shown on the OS Landranger Map in Spartan antiquity type. |
| С | City |
| Т | Town |
| 0 | Other settlements (urban area, village: place names relating to built-up areas as shown on the OS Landranger Map). |
| W | Water features: rivers, lakes, lochs, reservoirs and other water features, including coastal waters shown in blue type on OS Landranger Maps, except marsh, which is recorded under classification 'X'. |
| Х | Other feature: all distinctive names not covered by the above classifications, for example, private houses, isolated buildings, airports, commons, greens, marshes. |