Online maps

This hand-out gives an introduction to the mapping services available through the library. The main focus is on Edina Digimap®.
## Contents

**EDINA DIGIMAP**  
Registering to use Edina Digimap  
Accessing Edina Digimap  

**ORDNANCE SURVEY: DIGIMAP ROAM**  
Maps available  
Viewing and manipulating maps in Digimap  
  - Searching for maps  
  - Navigating around maps  
  - Changing map content  
  - Annotating maps  
Saving and printing maps  
  - Saving maps  
  - Printing maps  

**HISTORIC DIGIMAP**  
Maps available  
Choosing maps from different periods  

**GEOLOGY DIGIMAP**  
Maps available  
Selecting features  
Identifying Features  

**MARINE DIGIMAP**  

**ENVIRONMENT DIGIMAP**  
Further information and links  

**DATA DOWNLOAD**  

**OTHER USEFUL MAPPING SERVICES**
MAGIC: LAND USE MAPS

NATIONAL SOIL RESOURCES INSTITUTE SOIL SITE REPORTER: SOIL MAPS

Registering for the Soil Science Reporter
Using the Soil Science Reporter

Other sources of soil maps

AERIAL PHOTOGRAPHS

LIDAR DATA

HISTORIC MAPS

GEOLOGY MAPS

REFERENCING MAPS

Digital maps
Paper maps

CONTACT DETAILS FOR FURTHER HELP
Edina Digimap

Edina Digimap gives access to all current and past Ordnance Survey maps of England, Scotland and Wales, at scales from 1:1,000,000 to 1:1000 and also geological maps, land-use maps and environmental maps. These maps can be modified, saved and printed. Map data can be downloaded into a GPS or CAD package, and there is also an extensive gazetteer.

Registering to use Edina Digimap

1. Go to http://digimap.edina.ac.uk
2. At the top right hand of the screen, click on Log in.
3. Enter ‘University of Bradford’ as the institution name. Click on continue.
4. Log in, using your university username and password.
5. You will be taken to the Digimap home page, with a message telling you that you need to register before using collections. Click on this message or any of the collections to access the registration form.
6. Fill in the web registration form. The email address can be any address you check regularly.
7. Click Next and you will see a summary screen. Ensure your details are correct and click Submit.
8. You will receive an email, click the Verify email address link within it. The link remains active for 24 hours.
9. Choose to register for all of the collections and accept the terms and conditions for each of them. You will need to choose a purpose for which you are using each: choose Academic work.
10. Click Submit to accept the terms and conditions.
11. You will then be taken to the Digimap homepage.

### Accessing Edina Digimap

1. Edina Digimap can be accessed through the library catalogue or from its own website: [http://digimap.edina.ac.uk/digimap/home](http://digimap.edina.ac.uk/digimap/home).

2. On the home page, you will see a list of the Digimap packages. These include:

- **Ordnance Survey maps.** All current Ordnance Survey maps at scales from 1:1,000,000 to 1:1000.
- **Historic.** All past Ordnance Survey maps from the 1850s to the 1990s.
- **Geology.** British Geological Survey solid and drift geology maps from 1:50,000 to 1:625,000.
- **Marine.** Marine Digimap gives access to maps and data from the SeaZone HydroSpatial and Admiralty charts.
- **Environment.** Land cover maps from 2007, 2000 and 1997 at scales from 1:5,600,000 to 1:250,000.

For each package you can do the following:
- View, annotate and print maps. To access maps, click on the view, annotate and print link and click the green button labelled ‘I agree to the conditions’.
- Download data onto a GPS or CAD package (‘Data download services’).
- Access further help.

All of the packages work in the same way, enabling you to view, annotate, print and save maps. The basic functions are outlined in the section on the Ordnance Survey maps.

**NOTE:** To return to this home page at any point, use the breadcrumb trail at the top.

**Ordnance Survey: Digimap Roam**

Roam gives online access to all of the Ordnance Survey maps of England, Scotland and Wales, at scales from 1:1,000,000 to 1:1000. These maps can be modified, saved and printed. Map data can be downloaded into a GPS or CAD package, and there is also an extensive gazetteer.

**Maps available**

There are 14 pre-set scales in Roam. The most commonly used views are the local (1:50 000) and neighbourhood (1:25 000). To see which scale you are viewing, use the **Map information** option.

<table>
<thead>
<tr>
<th>View Level</th>
<th>Default OS map data product(s)</th>
<th>Alternative Map Products</th>
<th>Print Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>GB</td>
<td>Strategi® data and DCW country outlines</td>
<td></td>
<td>1:8,000,000</td>
</tr>
<tr>
<td>National</td>
<td>Miniscale®</td>
<td></td>
<td>1:1,600,000</td>
</tr>
<tr>
<td>Regional</td>
<td>Miniscale®</td>
<td></td>
<td>1:800,000</td>
</tr>
<tr>
<td>County</td>
<td>Miniscale®</td>
<td></td>
<td>1:400,000</td>
</tr>
<tr>
<td>Metropolitan</td>
<td>Strategi®</td>
<td></td>
<td>1:200,000</td>
</tr>
<tr>
<td>City</td>
<td>Strategi®</td>
<td></td>
<td>1:100,000</td>
</tr>
<tr>
<td>District</td>
<td>Meridian™ and Land-Form PANORAMA contours</td>
<td></td>
<td>1:50,000</td>
</tr>
</tbody>
</table>
Online maps

<table>
<thead>
<tr>
<th></th>
<th>Scale</th>
<th>Extract</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Plus</td>
<td>1:50 000 Scale Colour Raster</td>
<td>1:40,000</td>
</tr>
<tr>
<td>Local</td>
<td>1:50 000 Scale Colour Raster</td>
<td>1:20,000</td>
</tr>
<tr>
<td>Neighbourhood</td>
<td>1:25 000 Scale Colour Raster</td>
<td>Vector Map Local</td>
</tr>
<tr>
<td>Street</td>
<td>1:10 000 Scale Colour Raster</td>
<td>Vector Map Local</td>
</tr>
<tr>
<td>Detailed</td>
<td>OS MasterMap® Topography Layer</td>
<td>1:2,500</td>
</tr>
<tr>
<td>Plan</td>
<td>OS MasterMap® Topography Layer</td>
<td>1:1,250</td>
</tr>
<tr>
<td>Building</td>
<td>OS MasterMap® Topography Layer</td>
<td>1:500</td>
</tr>
</tbody>
</table>

Zoom by clicking the + and – icons on the slider or using your mouse scroll wheel. You can also double click on the map to zoom in.

**Viewing and manipulating maps in Digimap**

**Searching for maps**

You can search using the postcode, place name or grid reference (must be in alphanumeric form e.g. NT, TU24, SD9859). You can also zoom in by clicking on the map of Britain.

**Navigating around maps**

Pan by clicking on the map and dragging it in the desired direction or use the arrows on the blue button 🔄.

**Changing map content**

You can control the content of several map views. Click on Map Content in the left hand panel. This enables you to display only the map features you require, e.g. just the roads and railways.

Select or de-select the tick box next to the feature class to switch the display of that feature class on or off.
Map content control is only available in some scales. You may need to change the map type using the Basemaps logo on the right of the screen to enable this feature.

Annotating maps

To annotate your map, click on Map Tools.

This pops up the annotation tool bar allowing you to add markers, shapes and labels.

To save annotations, click on Save. You can save the map and annotations under My maps or export the annotations for use in GIS or CAD.

If you annotate and save a map in one area of Digimap you can re-load the annotations into another (eg you can save annotations in Roam then re-load them into Ancient Roam).

Under Map tools you can measure distances or zoom to your chosen area.
In the top right hand corner you can find the **hill shading** feature if you click on the drop down menu next to Overlays.

---

**Saving and printing maps**

**Saving maps**

Click Save option on the left hand side. There are two saving options:

- **My map** saves the map and any annotations. You can return to this at any time by clicking Open. You can also use this to re-load your annotations into other areas of Digimap such as Historic or Geology. You will need to give the map a title.

- **Annotations to file.** This allows you to save annotations to export to GIS packages.

**Printing maps**

1. Click the print icon.

2. Give your map a title and tick **National Grid lines, Legend** (key) and **Annotations** if you wish to include them. Choose whether your map should be portrait or landscape.

3. Click the **Layout preview** to check you are covering the correct area and **Content preview** to see what your map will look like.
4. Choose your page size from A4 to A0. The size of paper you choose determines the size of field produced in your print file - you do not necessarily need to print on that size of paper.

5. Click the ‘Generate print to file’ option bottom left hand side. This will produce a file in .pdf, .png or .jpg format.

**Historic Digimap**

Historic Digimap gives access to historical Ordnance Survey maps from the 1840s to the 1990s. You can also download historical data for use in GIS or CAD programmes.

Historic Digimap uses the same platform as Digimap, to print, save or annotate, see the relevant sections under Digimap.

Ancient Roam allows you to view historical Ordnance Survey maps from the 1840s to the 1990s.
Zoom through 12 different levels from maps at 1:500 to 1:10,560 in scale; view the same location for two different points in time to see what has changed.

Ancient Roam allows you to annotate, measure, print and save maps. For more information on how to do this, see the instructions under Digimap.

Maps available

- All available County Series maps at 1:2,500 and 1:10,560 scales published between 1843 and 1939.
- All available National Grid maps at 1:1,250, 1:2,500 and 1:10,560/10,000 scales published from 1945 to before the introduction of the OS digital Land-Line product.
- All available Town Plan maps at 1:500, 1:528 and 1:1056 scales published between the 1840s and the 1930s.

Choosing maps from different periods

When you search for a location you will see a list of time periods at the top of the screen. The dates highlighted in blue show that a map from this time period is available at the scale you are currently viewing. The map highlighted in red is the one you are currently viewing.

As you change map scale, the available maps will change. To see a map from a highlighted period, simply click on the date.

To find the precise date of the survey and other details such as paper map sheet and scale, click on the map then click the information icon on the toolbar.

To view maps from two different periods side by side, click the 1 up, 2 up button in the top right then choose a second time period from the list at the top of the screen. You will not be able to annotate maps in this view.

In addition to the saving options available in other Digimaps, in Historic you can save the screenview as an image.

Geology Digimap

Geology Roam gives you access to geological maps for both on- and off-shore sites. It enables you to find out more information about the rocks shown on the map and view photographs of geological features and landscapes. You can also download geological data for use in GIS or CAD programmes.
Geology Digimap uses the same platform as Digimap, to print, save or annotate, see the relevant sections under Digimap.

**Maps available**

- 1:625,000 solid and drift geology, and linear features.
- 1:250,000 solid geology and linear features.
- 1:50,000 solid and drift geology, mass movement, artificial ground and seven separate linear feature layers.
- the BGS Lexicon of named Rock Units.

Data can be downloaded into your GIS software.

**Selecting features**

In **Map Content** it is possible to turn layers of the map on and off to see the bedrock or drift geology.

If you use the slider on the top right hand side of the screen you can change the strength of the geological information displayed on the map.

**Identifying Features**

1. Click on the information icon on the toolbar.
2. Click on the area of the map on which you would like information.

3. A pop up box will appear in the middle of the screen giving full details of the features present at that site. Click on the tabs on the left to see more information about each feature. The pop-up sometimes contains links to the British Geological Survey site on that rock type.

## Marine Digimap

Marine Digimap gives access to maps and data from the SeaZone HydroSpatial and Admiralty charts.

**Marine Roam** gives access to series at 13 pre-defined scales. It shows water depth and other marine features such as wind farms, military practice areas and shipping lanes.

Marine Roam uses the same platform as Digimap, to print, save or annotate, see the relevant sections under Digimap.

Features can be turned on and off at any scale. To find more about any feature, click the on the map then click the information icon on the toolbar. This will display information about all features at that location, not just those visible at that map scale.

**Marine Maps** gives access to admiralty charts at 6 pre-set scales, from Ocean down to Harbour. Maps can be saved to your map chest for future viewing or printing.

## Environment Digimap

Environment Digimap gives access to land cover maps from 2007, 2000 and 1997 at scales from 1:5,600,000 to 1:25 000. You can also download environmental data
for use in GIS or CAD programmes. The 2007 land cover maps are also available in the **UKSO soil maps viewer** [http://mapapps2.bgs.ac.uk/ukso/home.html](http://mapapps2.bgs.ac.uk/ukso/home.html).

Environment Digimap uses the same platform as Digimap, to print, save or annotate, see the relevant sections under Digimap.

To change between the different land cover maps, use the Basemaps logo on the right of the screen. There is no content control in Environment Digimap. The key to the land cover colours is under map content. If you click on the information icon, then click the map, a pop-up box will give detailed information about the land use represented by that colour.

Environment Digimap also contains Dudley Stamp’s 1930’s land utilisation survey, giving historic land-use data.

**Further information and links**

Digimap FAQs and guides are at [http://digimap.edina.ac.uk/webhelp/resources/index.html](http://digimap.edina.ac.uk/webhelp/resources/index.html)

**Data Download**

Data download is available for all of the Digimap packages. Use this to download data for use in GIS or CAD. Data available for download include:

- Map data at any scale (MasterMap™ is the largest scale data).
- Data on postcode or administrative boundaries.
- Gazetteer data.
Online maps

- Data download is available in a variety of formats: for most common GIS packages, including ArcView, use NTF.

Other useful mapping services

Magic: Land use maps

Magic (http://www.natureonthemap.naturalengland.org.uk/MagicMap.aspx) is an interactive mapping service showing environmental schemes and designations such as National Parks, areas of outstanding natural beauty, scheduled ancient monuments etc.

To use Magic:

1. Agree to the terms and conditions.
2. Use the drop-down arrow in the search box to choose your search type (place, postcode, regions, counties or grid reference).
3. From the list on the left of the page, choose the topics you would like to investigate. To see what is in each, click the + symbol. The slider underneath each topic title increases or decreases the transparency of that topic.

Once you have generated your map, other features include:

- Use the pencil icon to annotate the map.
- Use the magnifying glass icon to search within a layer.
- Use the measure icon to measure distances or areas.
- Use the information icon then click on the map for information about map features.
- Use the site check icon to draw an area of interest, then click perform site check to check all of the information about your chosen themes within that area.
- Use the print icon to generate a print file. Choose your format and page size and give the map a title. Once Magic has finished generating the file, click Printout to view the file.

National Soil Resources Institute Soil Site Reporter: Soil maps

The NSRI soil science reporter creates in-depth soils reports for any site in England and Wales. You will need to register to use the site but registration is free and instant.
Registering for the Soil Science Reporter

2. Click “Create new user account”.
3. Choose “Student registration”.
4. Fill in the registration form.
5. You will receive an email with a link to click to complete your registration.

Using the Soil Science Reporter

1. Click and zoom to your area of interest. Alternatively, at the bottom of the “report generator” box you can search by co-ordinates, grid reference, postcode or placename.
2. Under “Report generator”, select the area of coverage (maximum is 5x5km, minimum is 1x1km) and select “undergraduate student report” as the report type.
3. Give your report a title and click “add to basket”.
4. Click “basket contents” and “check out”.
5. Tick the box in the pop-up window to accept the terms and conditions and click “confirm your order”.
6. You will receive an email with a link to your report.

Other sources of soil maps

- The NSRI site also contains a simple soil map viewer called Soilscapes, available at http://www.landis.org.uk/soilscapes/.
- Scotland’s soils has scans of Scottish soil maps http://www.soils-scotland.gov.uk/.
- The UK Soil observatory covers the whole UK http://www.ukso.org/home.html. The soil maps viewer http://mapapps2.bgs.ac.uk/ukso/home.html allows you to choose layers including land cover and a huge range of soil variables.

Aerial photographs

- The most comprehensive coverage of current aerial photographs comes from Google Earth https://www.google.co.uk/intl/en_uk/earth/.
- Historic aerial photographs can be accessed at Britain from above https://britainfromabove.org.uk/en.
- The National Collection of Aerial Photography http://ncap.org.uk/ offers a limited free service.
Lidar data

Lidar data can be viewed and downloaded at http://environment.data.gov.uk/ds/survey/index.jsp#/survey.

Historic maps

Historic maps can be accessed through Digimap or through these other sites:

- Vision of Britain http://www.visionofbritain.org.uk/ gives access to historic maps, documents, and statistics and related websites. Search by place name or postcode.
- The National Library of Scotland http://maps.nls.uk/ has pre-1960 Ordnance Survey maps for the whole country and detailed maps of Scotland from 1560 onwards.
- Old Maps Online http://www.oldmapsonline.org/ has historic maps from around the world. UK coverage is pre-ordnance survey to the 1960s.
- The map chest on floor 1 has facsimiles of some famous historic maps.
- Special Collections has some original historic maps. For more details, see http://www.brad.ac.uk/library/special-collections/.

Geology maps

Geology maps can be accessed through Digimap or through these other sites:

- Open Geoscience (http://www.bgs.ac.uk/opengeoscience/) provides basic geological mapping, offshore geology maps, hydrogeological maps and borehole data.
- There is a small series of paper geology maps in the JB Priestley Library in the British Governmental Publications section under Natural Environment Research Council/British Geological Survey. To browse the collection from the library catalogue, try a search for British Geological Survey.
- There are also some geology maps in the map chest on floor 1.

Referencing maps

Digital maps

To reference a digital map, use the following template:

Originator or publisher of map (Year) Map title Scale. Web address and date generated.
For Digimap, most of this information can be found when you generate a PDF to print. The originator is always Ordnance Survey. The year of map can be taken as being the copyright date, which is claimed to be the current year for all Digimap data. Assign the map a title based on where you have centred the map. The reference for a map of Malham which you produced using Digimap on 10th October 2017 would be:

Generated 10 September 2017.

Paper maps

To reference paper maps, use the following template:

Author/Publisher (Year) Title, Sheet number (this is optional), Scale. (Series title) (this is optional). Place of publication (this is optional): Publisher.

Example of reference


Contact details for further help

Sarah George
Librarian for Archaeology, Chemical Engineering, Chemistry, Civil and Structural Engineering, Forensics and the Engineering Foundation Year
s.george@bradford.ac.uk
Room 1.8,
J.B. Priestley Library.