Key Online Mapping Resources for Irish Data

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This guide provides information on the following:

- Where to find spatial data in UCD
- Listing of datasets and spatial data resources for Ireland
- Definitions of GIS
- UCD Case Studies - these are examples of projects where you can see the benefits of using GIS
- A range of tutorials and courses on GIS available on the web
- Learn how to create a map of Ireland showing the counties with population figures displayed
- Listing of courses and modules available on GIS in UCD
- A variety of links to journal articles and research papers on GIS
- Links to guides which show how to cite and reference GIS data
- A selection of books on GIS which are held in UCD Library

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Key Online Data Resources in Ireland

AIRO – Census  
www.airo.ie

EPA – Air Quality, Water Quality, Land use and Soils  
www.epa.ie

GSI – Geology, Aquifer, Groundwater and Seabed contours  
www.gsi.ie

Heritage Service – Archaeology  
www.archaeology.ie

Marine Institute – Marine  
www.marine.ie

NBDC – Biodiversity  
www.biodiversityireland.ie

NPWS – Ecological designations  
www.npws.ie

OPW – Flood Maps  
www.floodmaps.ie

Ordnance Survey Ireland – Maps and Aerial photos  
www.osi.ie

SEAI – Wind speed  
www.seai.ie

MyPlan – Planning data  
www.myplan.ie

Dublinked – Data store (Greater Dublin Area)  
www.dublinked.ie
Using common mapping tools in Ireland

- National Monuments Service
- National Parks and Wildlife Service
- Environmental Protection Agency
- Geological Survey of Ireland
- My Plan
- National Biodiversity Data Centre
Websites & Exercises
Click on tab Archaeological Survey of Ireland, scroll to the bottom of the page and accept the terms and conditions

• Using the zoom and pan tools, navigate to county Kildare
• Use the query tool to explore the Sites and Monuments Records (SMRs) in Taghadoe - How many are there?
• Copy the results into a Word document
• Calculate the area of the field where the SMRs are in Taghadoe.

Zoom in on the map using the sliding bar
Click the draw and measure tool
Make sure Show Measurements box is ticked
Choose your preferred Distance Units
• Apply Google street view to visualize the SMRs in Taghadoe.
• To do this drag the onto the map
• Click Plot on the box which appears – move the yellow figure onto the map to view the area.
• Take a screenshot and paste it into a Word document

• Left click on Line Draw symbol
• Click on location where you want to start measuring from
• Double-click to finish measuring and the measurement will appear within the area you have drawn on the map
Navigate to Maps and Data => Access the NPWS Map Viewer

- Use the zoom and pan tools to navigate to county Mayo and locate Ballina
- Open the legend to identify the types of ecological designations in Ballina
- Apply the identify tool to query the visible layers and identify the names and codes of the ecological designations in Ballina – Which are?
- To clear the table with data found just click on New Search
• Click on the species names to get fuller details

• To clear the data when it is displayed click on New Search.

• Click the + symbol to make it active and Draw a study area

• Explore aerial and 6 inch views.

• Zoom in on the 6 inch map using this tool.

• Take a screenshot and paste it into Paint and then a Word document
Navigate to EPA Maps => See Maps => EPA Maps

• Using the zoom and pan tools , navigate to county Longford and locate Ballymahon

• or you can use magnifying glass symbol to search for a location
• Click the + to open the layer called WFD Status *(Water Framework Directive)*. Tick the checkbox for River Status 2007-2009 – What is the river water quality status around Ballymahon? And the groundwater status 2007-2009?

• Turn on the License and Enforcement layer – which is the closest IPPC *(Integrated Pollution Prevention and Control)* facility? Zoom out until you see it. Use the identify tool to get further details by clicking on the IPPC site.

• Take a screenshot of the area and another one of the IPCC facility and paste them into a Word document
General map of the area

Map with the IPPC facility
Select Online Mapping=> Scroll down to Map Viewers=> Select Public Data Viewer

• Use the zoom and pan tools to navigate to Valencia Island in county Kerry. This is just below Dingle Bay.

• Click to open the yellow folder named Geological Heritage – Tick the check boxes of the two Geological Heritage layers. How many sites are there in Valencia island?
  
  • (You should see three red circles)

*The Hints section explains what the different icons do.*
• Click to open the Minerals folder. Tick the Mineral Localities layer.

• Use the legend to identify the features on the map.

Look closely to see the red triangles on your map.

To get back to the main map again click on Layers.
• Under Groundwater, click on yellow folder to see contents, click the checkbox for the National Vulnerability layer. Use the legend to find the groundwater vulnerability in the mineral extraction sites.

• Print the resulting map to a PDF using the print icon.
www.myplan.ie

From homepage click on Launch Map Viewer

Click on the + symbol and zoom into Kilkenny City

Click on the layer icon to expand it

Click the checkbox for Zoning to select it

Click the pull-down arrow and left click on Transparency to move the slider so that the streets become visible

Left click on any coloured area to read the Zoning details
• Click the globe to return to full extent of Ireland map
• Using the zoom and pan tools navigate to Carlow town
• Left click on the Layers icon to see layer list
• Click on the check box for Census Population Data
• Click on the + symbol beside the check box
• Click the check box for Population 2011 by ED (Electoral District)
• Left click on one of the coloured areas of the map to read the data
• Click on the check box for Unfinished Housing Survey 2012
• Click on the + symbol beside the check box
• Click the check box for Unfinished Developments 2012
• Use the Print icon to Print your map as a PDF (as shown above)
http://maps.biodiversityireland.ie/

From Home Page=> Go to Live Maps

- Click on the Add a Species icon
- In the Search box type Fallopia and select Fallopia Japonica from the list
- Then click the magnifying glass
- Left click on the + symbol next to the species name
- Left click on the Point Identify icon and then click one of the coloured squares on the map. Zoom into a site.
- Under Results, Click on letter / number code to see full details relating to that site. Print your map as a PDF.
http://maps.biodiversityireland.ie/

From Home Page=> Go to Live Maps

Click to untick the checkbox so that the layer is hidden and not visible on the map

Click the red X to completely remove the species layer from the map

From list of layers click the triangle beside Admin

Click the magnifying glass beside Townlands *(townlands layer only visible when zoomed in on the map)*

Use the Point Identity icon to click within a townland to find its name
Need More Help?

Contact: jane.nolan@ucd.ie

See our Library GIS Guide at libguides.ucd.ie/gisguide

And our Library Maps Guide at libguides.ucd.ie/findingmaps