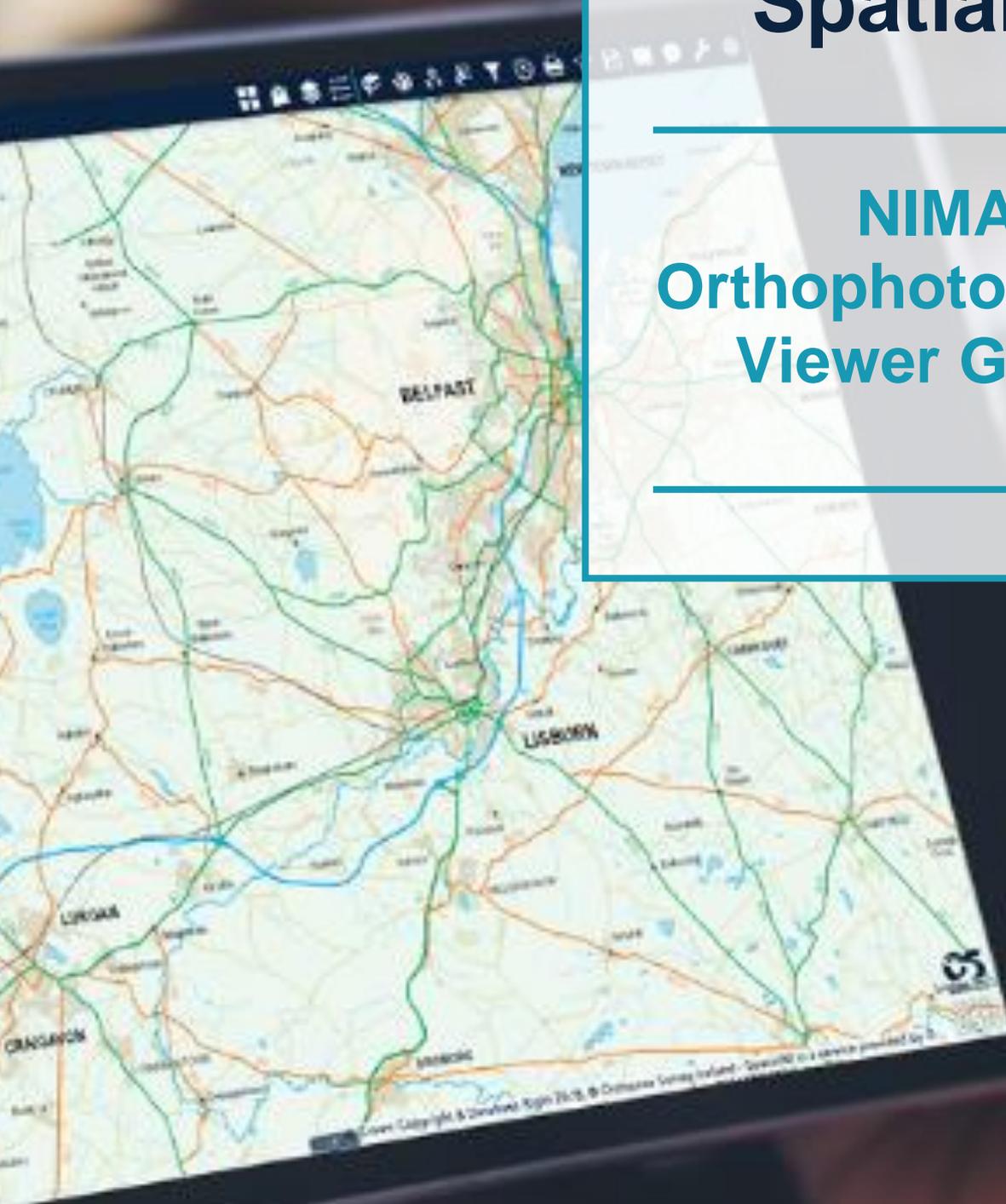




ORDNANCE SURVEY
OF NORTHERN IRELAND®

Spatial NI

NIMA Orthophotography Viewer Guide



Document Version

Version	Purpose for Change	Date
1.0	Completed	1 April 2019



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Contents

About this guide	4
Overview	4
On Screen Widgets	6
Zoom Slider	6
Home.....	7
My Location.....	7
Full Screen.....	8
Extent Navigate.....	8
Coordinates.....	9
Attribute Table.....	10
Overview Map.....	12
Search.....	13
Panel Widgets	15
Data & Analysis	15
Layer List	16
Go to XY.....	17
Swipe.....	19
Draw & Measure	20
Print.....	24
Information	26
Map Tour.....	26
About.....	26
Help.....	26
Further help and support	27

About this guide

This guide has been written to assist you when using the Spatial NI NIMA Orthophotography Map Viewer.

Text highlighted in **bold** are actions that you will need to complete.

Map Viewer Tip: Discover a handy tip for how to do something in the Spatial NI map viewer.



Overview

The Spatial NI orthophotography map viewer is available to all NIMA participants. It has been developed to facilitate the viewing of all OSNI orthophotography and has the functionality allowing you to compare images.

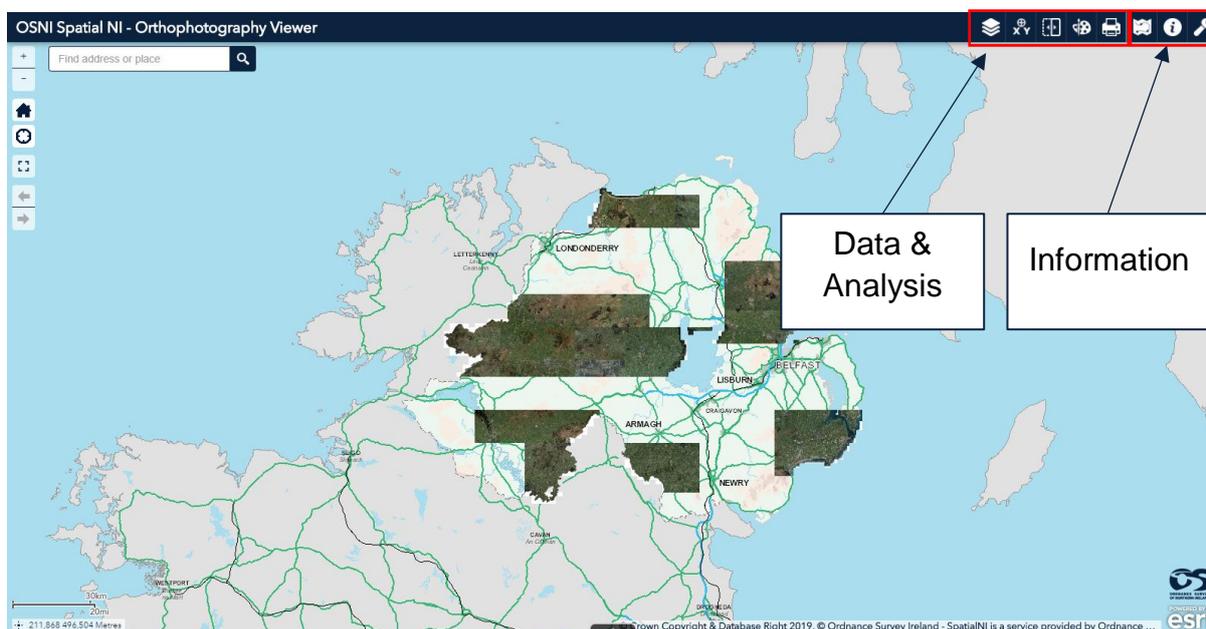
You can also obtain the:

- ID of the original photograph
- Flight date
- OSNI tile number

The functions you can use in the map viewer have been divided into 2 types:



The panel widgets have been divided into 3 categories:



On Screen Widgets

Zoom Slider



Use the (+) and (-) buttons to either zoom in or out of an area shown on the map.

The more zoomed in you are, the more detail will be shown on the map. This is good for showing detail down to individual locations such as houses, farms or specific sites.

Advanced Map Navigation: use the + and – keys on your keyboard to zoom in and out on the map.

Double left click with your mouse to zoom in to that specific area.

Hold the shift key on your keyboard and use your left mouse button to draw an area to zoom to on the map.

Use the scroll wheel on your mouse to zoom in or out on the map.

Left click and hold using your mouse to pan the map.

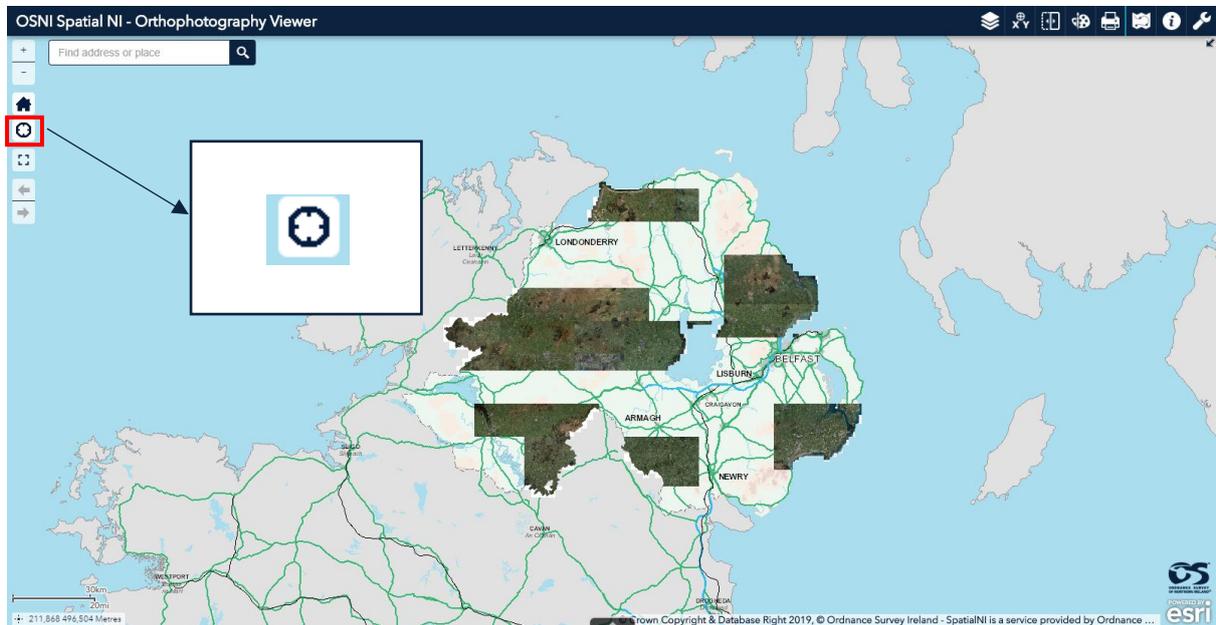


Home



Use this button to reset the map to its original extent.

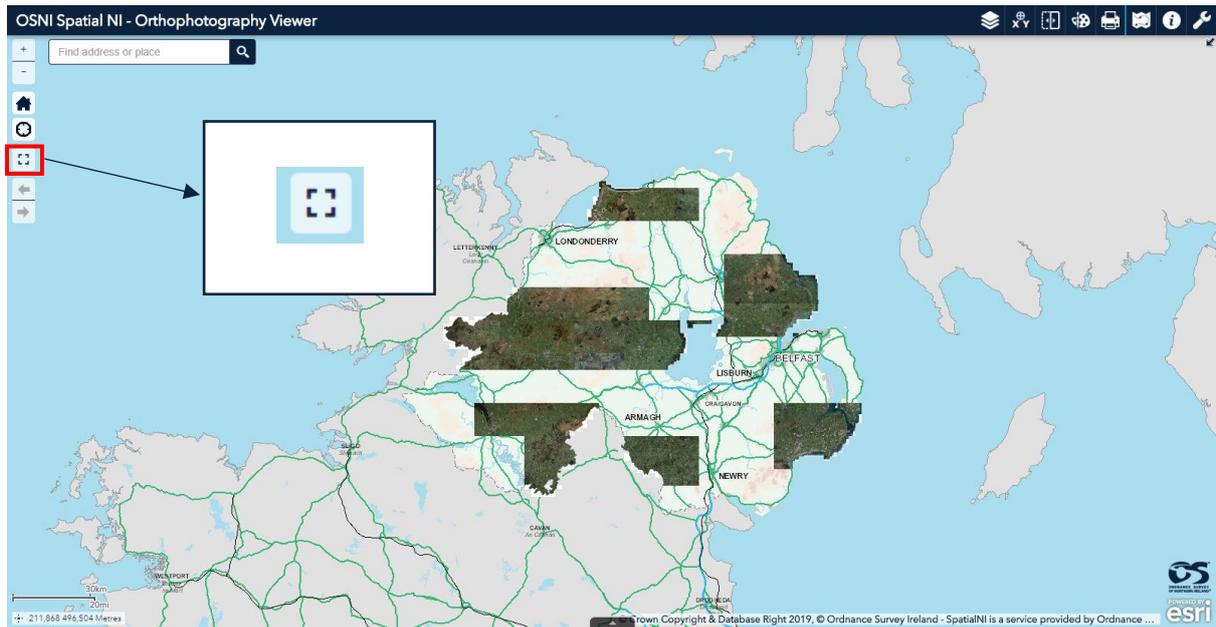
My Location



Select this function to navigate the map to your current location. Doing this changes the scale of the map to the most appropriate for the location.

Spatial NI recommend that you only use this function when on a mobile device and location services have been enabled.

Full Screen



Use the full screen mode to expand the map viewer to the full extent of your monitor screen. This is particularly useful when using the map viewer for a presentation.

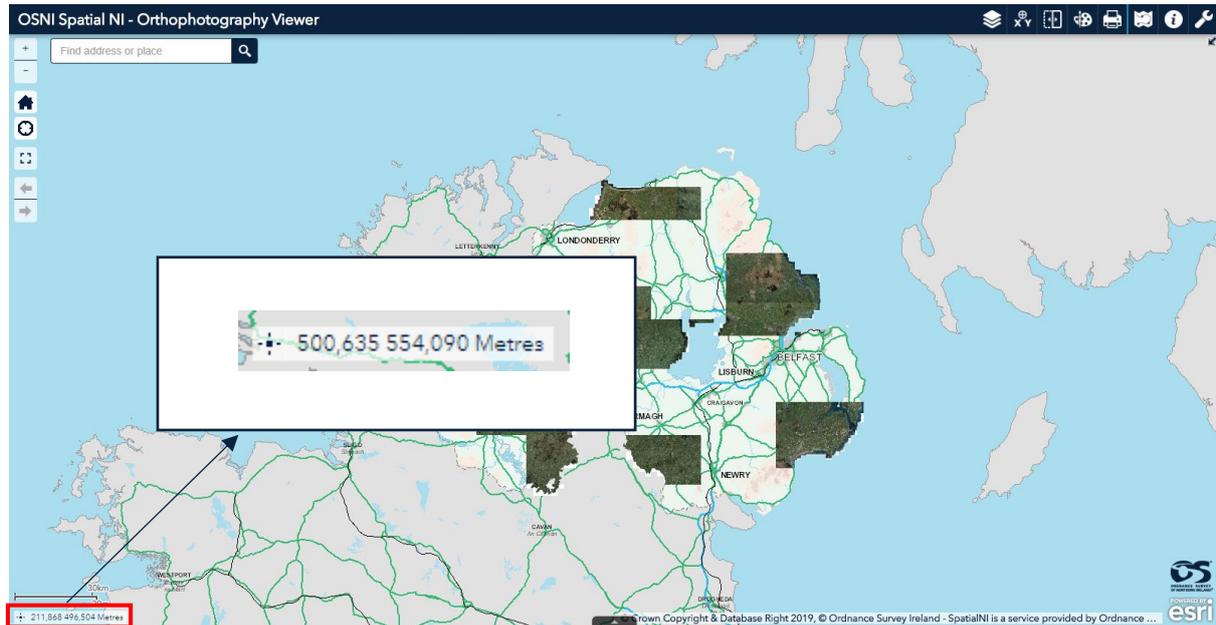
The full screen function is not supported on mobile devices.

Extent Navigate



Click the arrows to navigate the map to its previous or next extent.

Coordinates

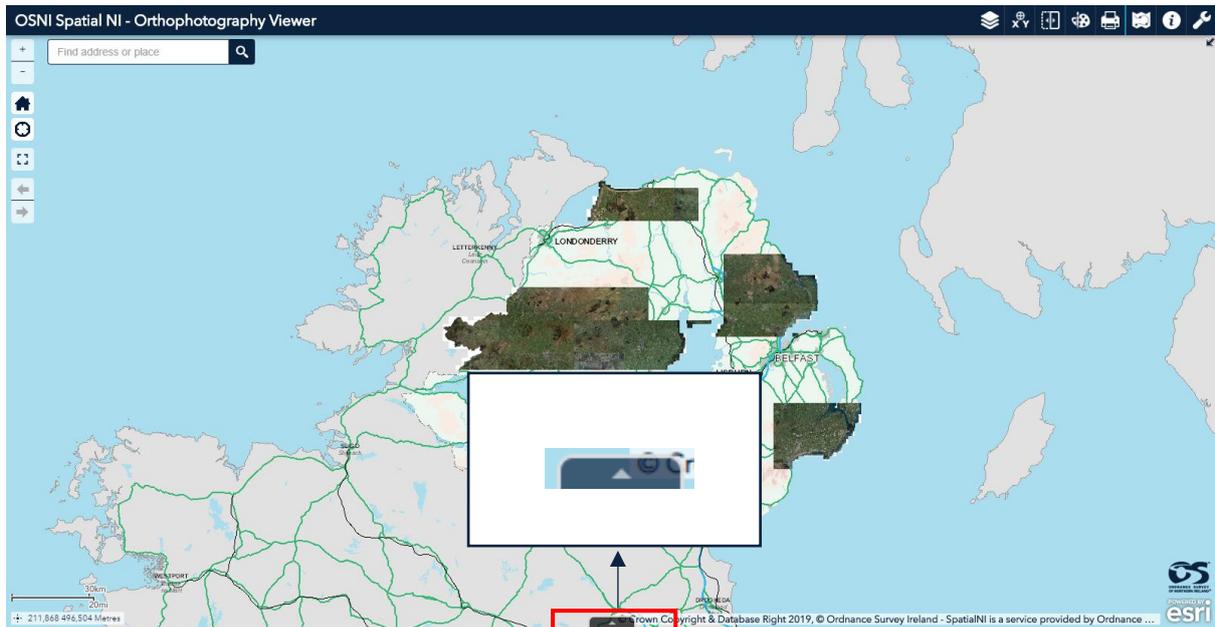


The coordinates are displayed at the bottom left of the map in Irish Grid Eastings and Northings. The coordinates will change depending on your cursor location.



Selecting the **'Get Map Coordinates'** button allows you to find the exact location on the map. When you click on a location, a marker symbol will appear and the coordinates are fixed to this location. To remove the marker symbol, deselect the **'Get Map Coordinates'** button.

Attribute Table



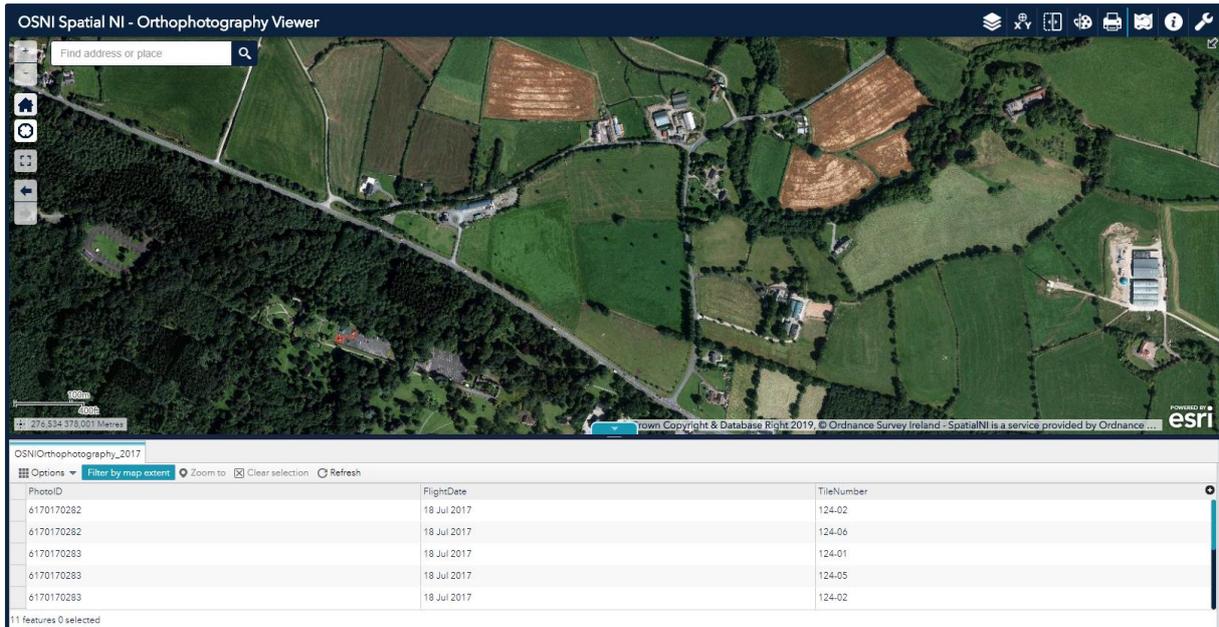
Open and close the attribute table by clicking on the tab at the bottom of the map.

A range of functions are available for you to explore the data on your map.

Select a record – Click a record in the table to select it and highlight the corresponding feature on the map. Press the Shift or Ctrl key on your keyboard and click using your left mouse button to select multiple records.

Clear selections – Click the Clear selection button to clear all selections.

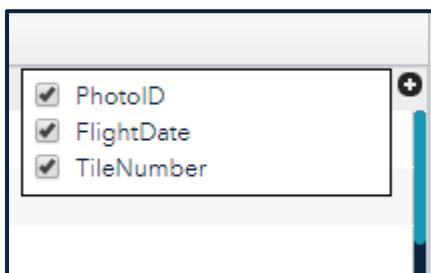
Refresh – Click refresh to refresh the table.



Sort a field – Click a field heading to sort the records by this field.



Show or hide columns – Click the + button on the right side of the attribute table panel to open the field visibility window. Check or uncheck the fields to set their visibility in the table.



Number of selected records – shown at the lower left of the table.



Options -

Show Selected Records – displays the selected records in the table

Show Related Records – displays related records if a selected record has a related table.

Filter – ability to filter records in the table by using a query.

Filter by Map Extent – Displays attributes for features within the current map extent.

Expand the attribute table: expand the attribute table by clicking on and dragging the navy bar at the top of the table just below the tab to open and close the table.

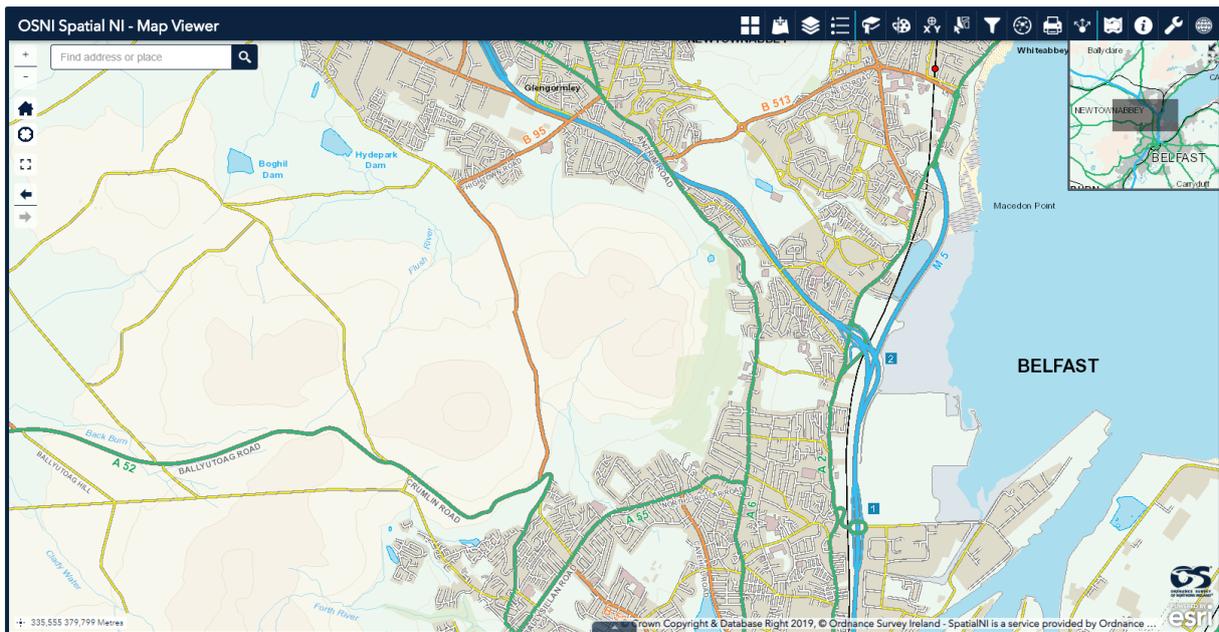


Overview Map

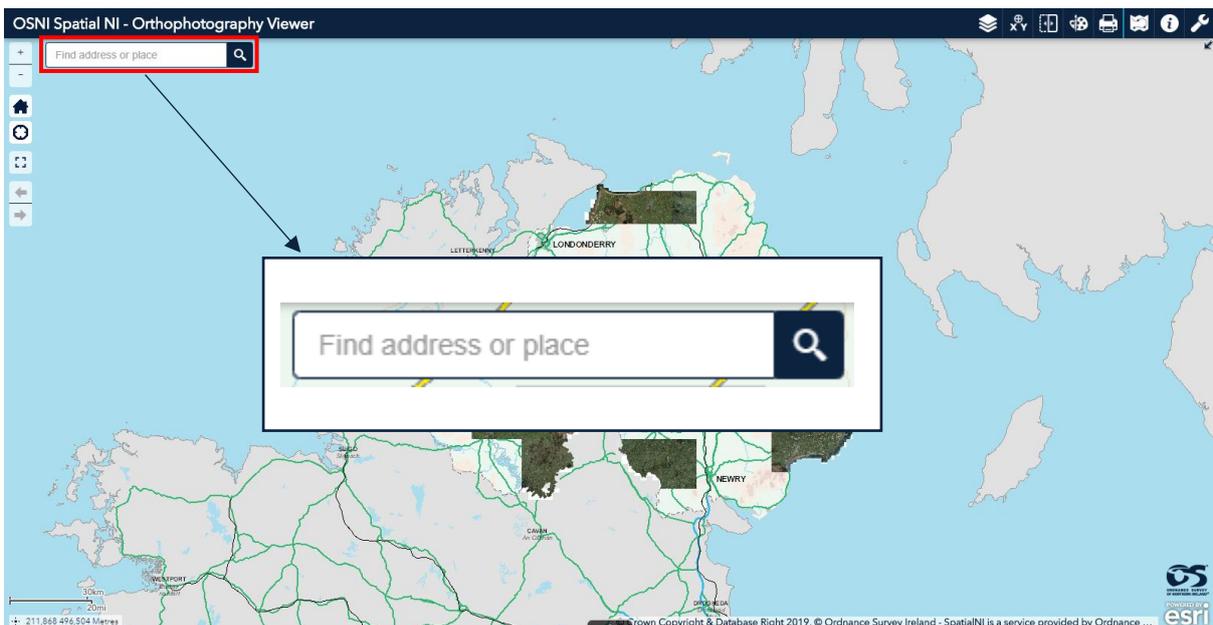


The overview map can be launched by clicking on the arrow on the top right of the map. This displays the current extent of the map within the content of a larger area and updates whenever the map changes.

The current map extent is represented by a grey rectangle on the overview map and can be dragged to modify the extent of the current view.



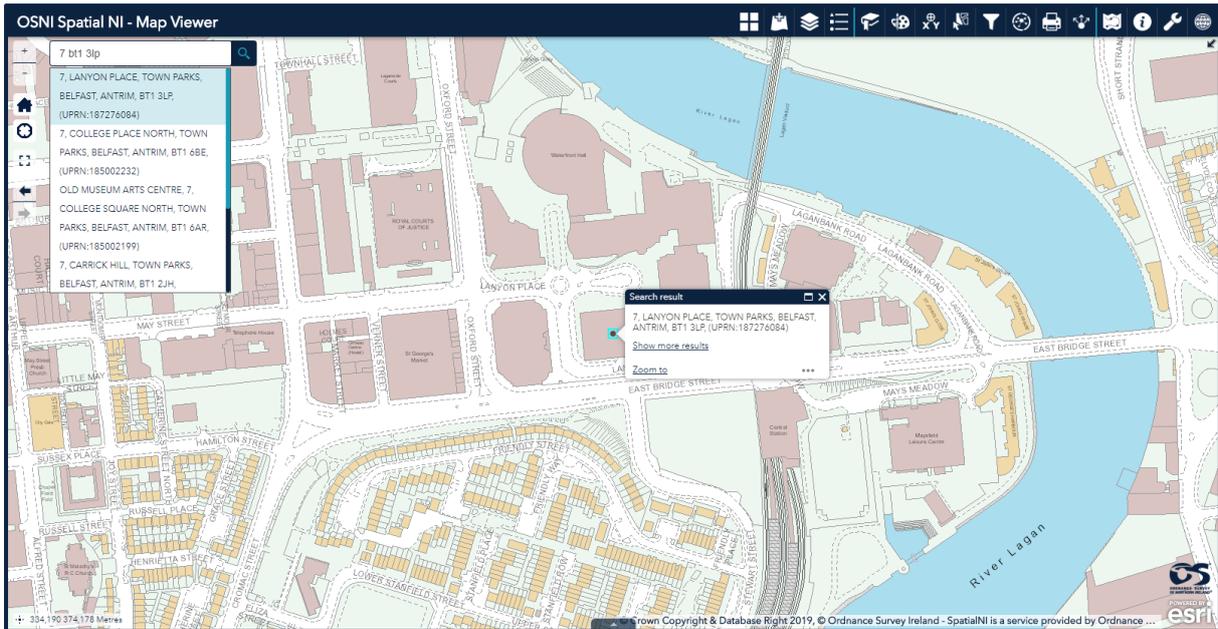
Search



Search for an address or place using the search bar located on the top left of the map.

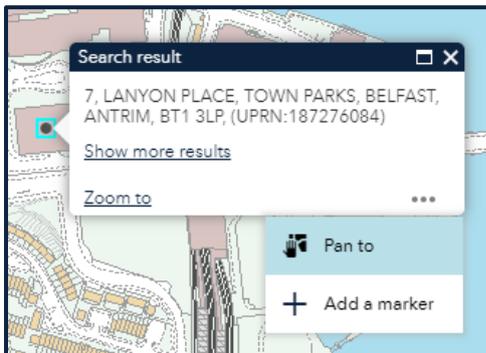
Type an address or postcode in the bar and click the search icon. The search is not case sensitive.

Depending on your search criteria, a list of suggestions will appear in a dropdown menu. Click on your desired address to locate the location on the map.



A popup will appear on the map showing the full address including the Unique Property Reference Number (UPRN).

From the popup: click on the 3 ellipses to get an additional menu. From here you can add a marker.



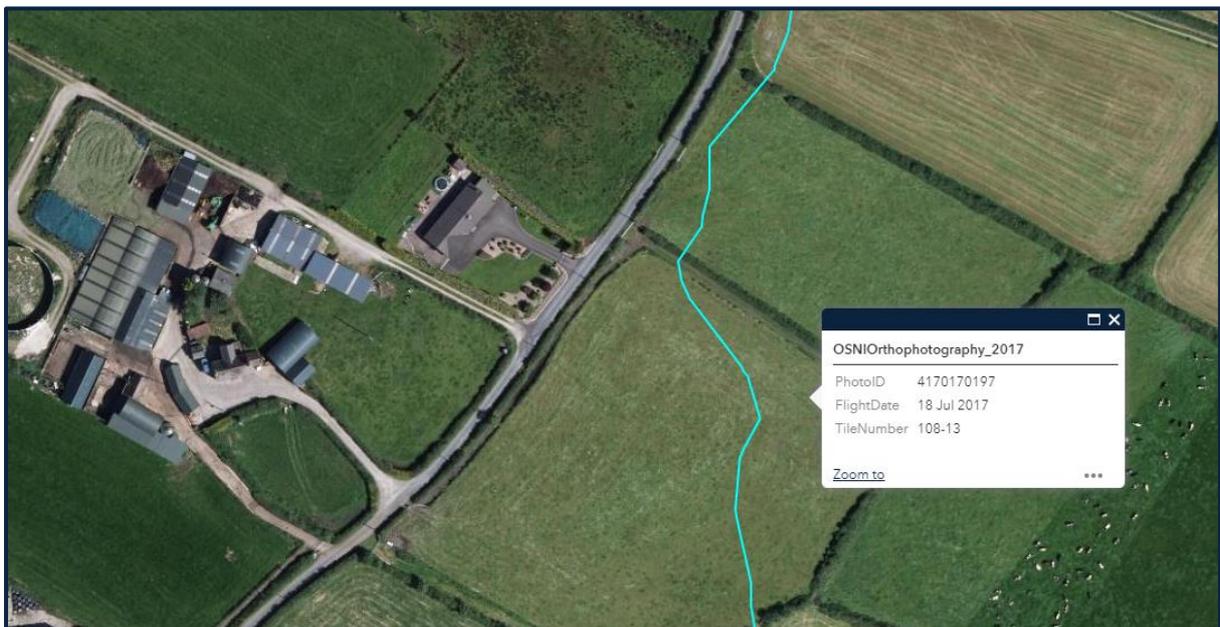
The marker contains the Irish Grid coordinates for the location and a URL reference for the location.

Panel Widgets

Data & Analysis

Pop Ups

In order to obtain the information relating to a particular image, click on the relevant part of the map. This will load a pop up.



The pop up will list the following information:

- Photo ID
- Flight Date
- Tile Number

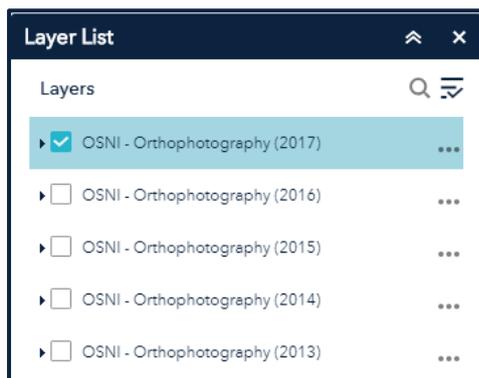
You will also see the seamline for that individual photograph highlighted on the map.

Layer List



The layer list widget provides a list of operational layers and their symbols. It allows you to turn individual layers on and off.

Use the check box to toggle the layer on and off:



Click the three ellipses to the right of the layer name to display the layer menu. This provides you with the following additional options:



Zoom To – sets the map extent to the extent of the layer

Transparency – sets the transparency for the layer

Set visibility range – sets the range at which the layer will draw on the map

Move Up/Down – moves the selected layer up or down one level in the list

You can expand the layer further to see the individual feature layer associated with the year of photography. To do this, click the arrow before the service name.



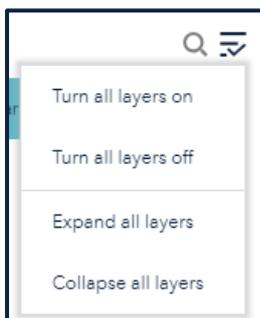
This provides you with the following additional options:



Enable/Disable Pop-Up – enables or disables the popup for the feature layer

View in Attribute Table – opens the attribute table for the feature layer

Use the control all layers button to control the behaviour of the layers in the list.

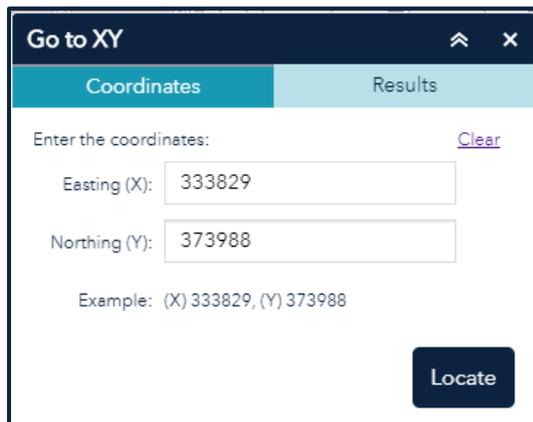


Go to XY



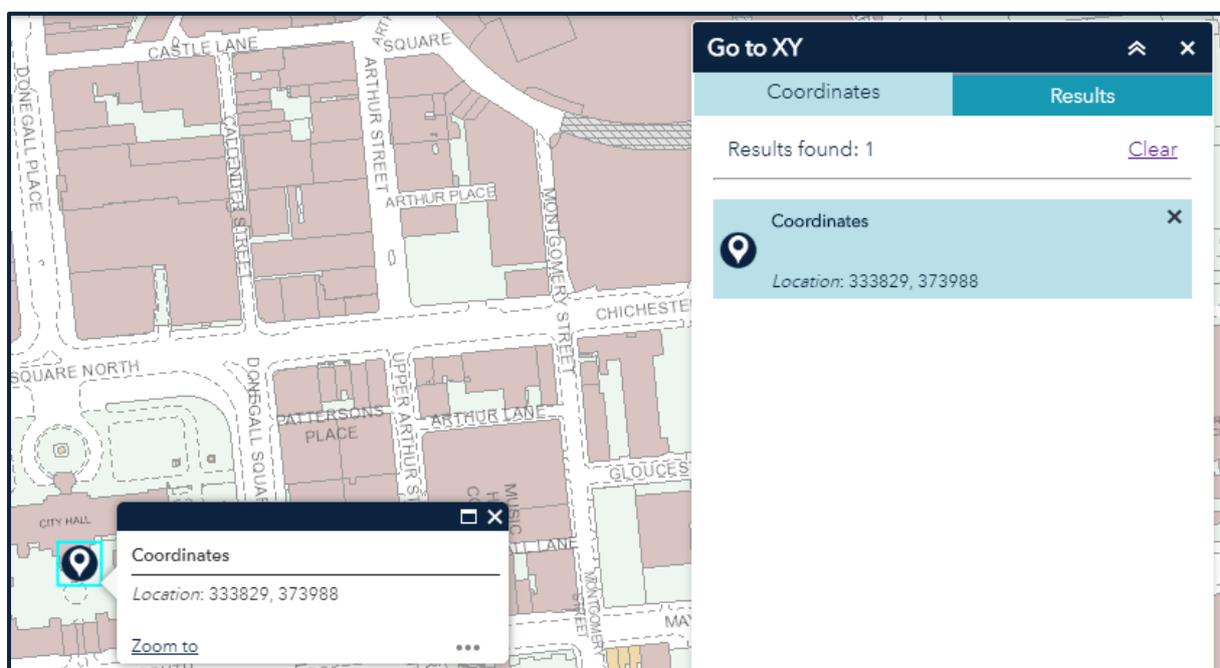
The Go to XY widget gives you the ability to enter Irish Grid Eastings and Northings and to zoom to that location on the map.

Enter your easting and northing and click **Locate**.



The 'Go to XY' panel is shown with the 'Coordinates' tab selected. It features a header with an up arrow and a close button. Below the header, there are two tabs: 'Coordinates' (active) and 'Results'. The main area contains the text 'Enter the coordinates:' followed by a 'Clear' link. There are two input fields: 'Easting (X):' with the value '333829' and 'Northing (Y):' with the value '373988'. Below these fields is an example: 'Example: (X) 333829, (Y) 373988'. At the bottom right, there is a dark blue 'Locate' button.

This will open the results tab where your coordinates are displayed in a list. A marker symbol is also added to the map.



Click the X to remove your search from the results.

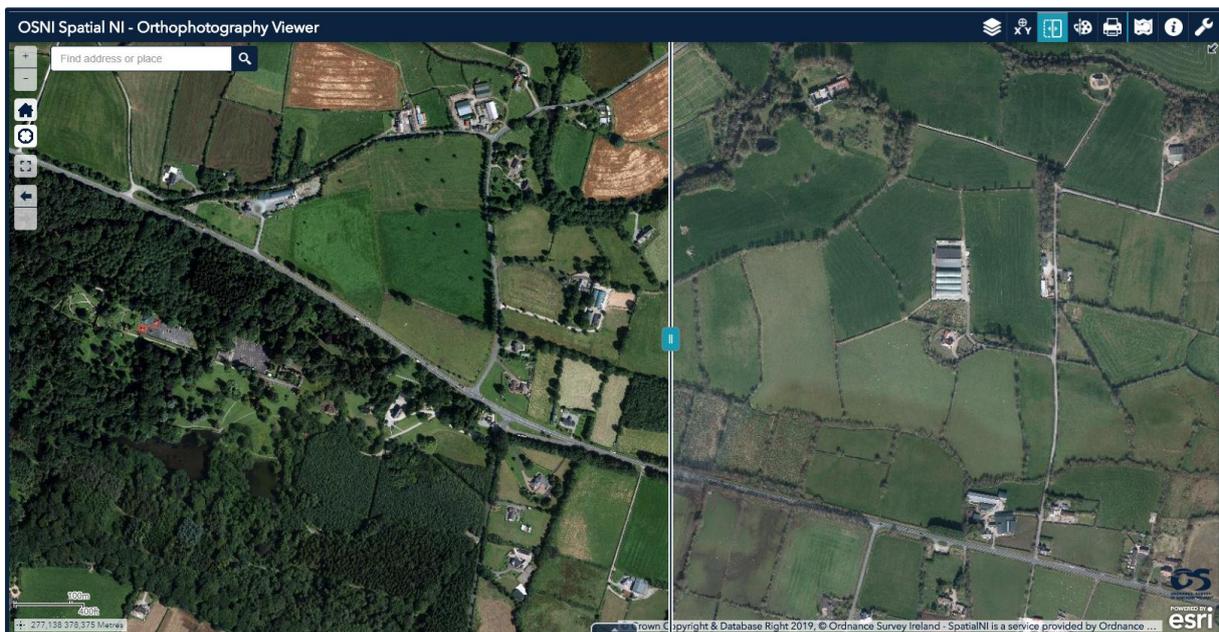
You can navigate back to the coordinates tab and continue to search for more locations.

Swipe



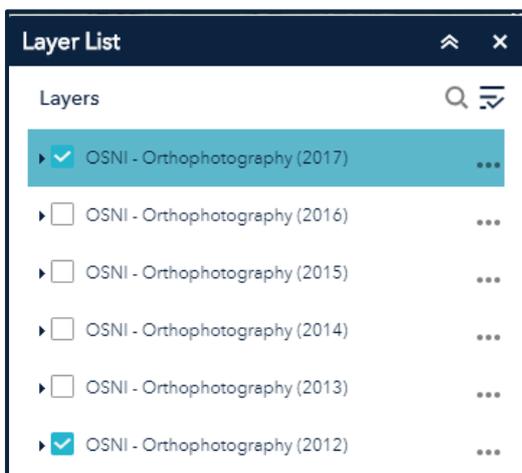
The swipe widget enables you to easily compare the content of different layers on the map. You can slide the swipe tool or move the mouse around to reveal the content of another layer.

When the widget is enabled, a vertical swipe bar is added to the map viewer. Move this to reveal the imagery or map underneath.



You can also pan the map by clicking and dragging anywhere on either side of the swipe bar.

To activate the layers for the swipe tool, click the 2 options you want to compare in the layer list widget.



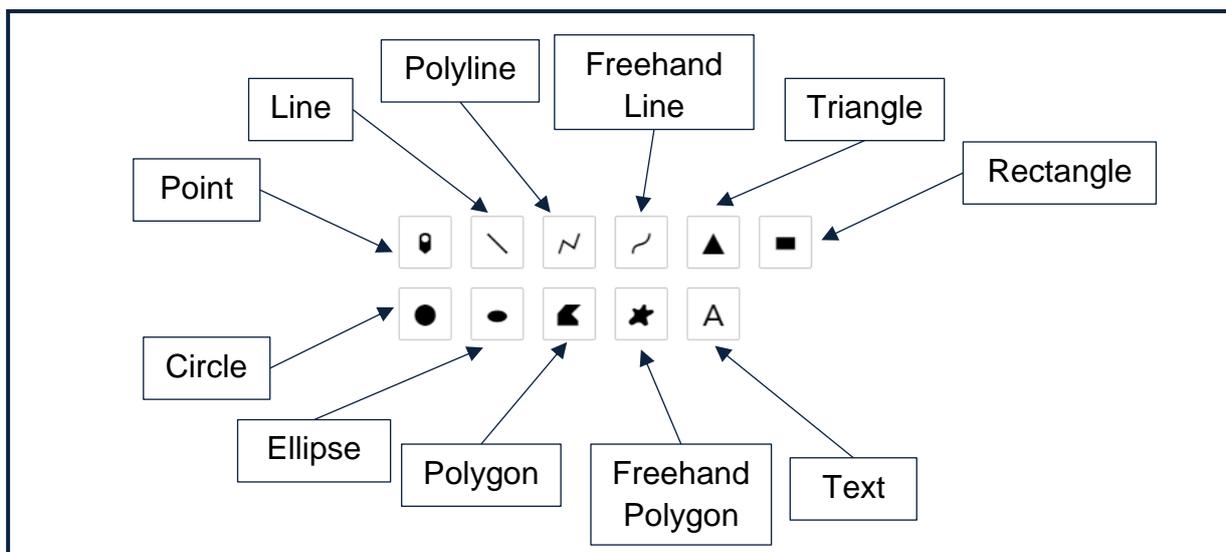
Draw & Measure



The draw and measure widget allows you to create simple graphics and text that display on the map. You can also use it to add line distance or polygon area to the feature as text.

The widget allows you to save these locally as a json file and then reload these at a future date. You could also share the json file with a colleague for them to add to the map viewer.

When you open the widget, a dialog box appears that contains 11 feature draw tools:



Click the symbol type to select the drawing mode. This opens a symbol specific menu from which you can change the symbol attributes.

For point symbols:

This is a preview of your chosen symbol

Selection of different symbols available for you to choose from

Change the symbol size

Change the symbol colour

Change the symbol transparency

Change the symbol outline colour

Change the symbol outline width

The screenshot shows a configuration panel for point symbols. At the top, a 'Preview' section displays a blue circle. Below it is a 'Basic' category with a grid of various symbols including squares, diamonds, crosses, and circles in different colors and patterns. Further down are controls for 'Symbol size' (set to 24), 'Color' (a dark blue color swatch), 'Transparency' (a slider from 0% to 100%), 'Outline color' (another dark blue color swatch), and 'Outline width' (set to 1).

Show location measurement gives you the option to get coordinates in Degree or Degrees-Minute-Second format.

For line symbols:

This is a preview of your chosen symbol

Selection of different symbols available for you to choose from

Change the symbol colour

Change the symbol style

Change the symbol transparency

Change the symbol width

Toggle on to show length

The screenshot shows a configuration panel for line symbols. At the top, a 'Preview' section displays a solid black horizontal line. Below it is a grid of various line styles and colors, including solid, dashed, and dotted lines in multiple colors. Further down are controls for 'Color' (a black color swatch), 'Style' (a dropdown menu currently set to 'Solid'), 'Transparency' (a slider from 0% to 100%), 'Width' (set to 1), and 'Arrow' (a dropdown menu currently set to 'No').

The **show length measurement** gives you the option to show lengths in kilometres, miles, metres, feet, yards or nautical miles.

For polygon symbols:

This is a preview of your chosen symbol

Selection of different symbols available for you to choose from

Change the symbol colour

Change the symbol transparency

Change the symbol outline width

Change the symbol outline width

The screenshot shows a configuration panel for polygon symbols. At the top, there is a 'Preview' section showing a grey trapezoidal symbol. Below it is a grid of 24 different colored trapezoidal symbols. Further down, there are controls for 'Color' (a black color swatch), 'Transparency' (a slider from 0% to 100%), 'Outline color' (another black color swatch), and 'Outline width' (a numeric input field set to 1).

The **show area measurement** gives you the option to show area in square kilometres, square miles, acres, hectares, square metres, square feet or square yards.

The **show perimeter measurement** gives you the option to show lengths in kilometres, miles, metres, feet, yards or nautical miles.

For text:

This is a preview of your text

Change the font colour

Change the font size

Further text customisation options

Text placement options

The screenshot shows a configuration panel for text. At the top, there is a 'Preview' section showing the text 'Enter name for your drawing here'. Below it are controls for 'Font color' (a black color swatch), 'Font size' (a numeric input field set to 17), 'Font Name' (a dropdown menu set to 'Arial'), and 'Text Angle' (a numeric input field set to 0). There are also buttons for 'B' (bold), 'I' (italic), and 'U' (underline). At the bottom, there is a 'Placement' section with a 3x3 grid of icons representing different text alignment and placement options.

Under each option you have the ability to give the drawing a name and a description:

Add a drawing

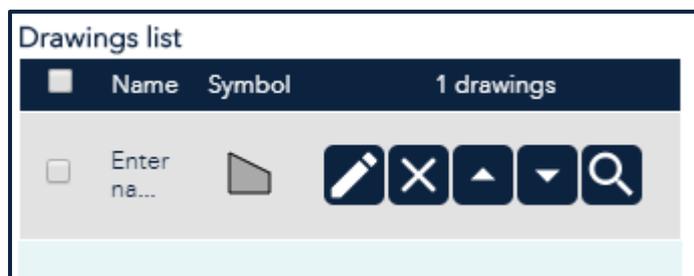
Name:

Description:

← Add a drawing name

← Add a description

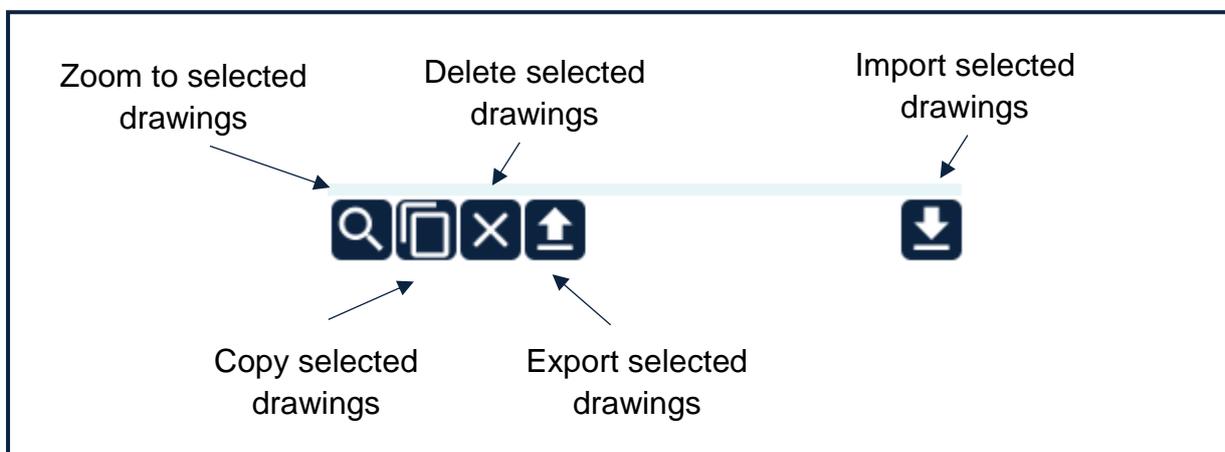
Once you have created your drawings, the drawing list tab will open.



This dialog box will allow you to:

- Update the drawing
- Delete the drawing
- Move the drawing up or down the list
- Zoom to the drawing

At the bottom of the drawing list tab, a number of further options are available.

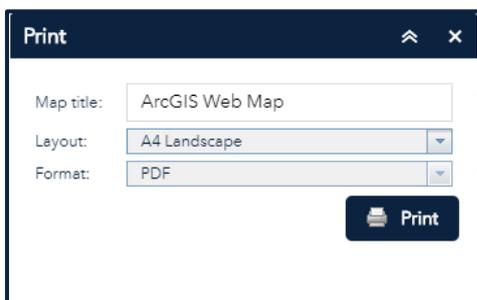


Print



The print widget provides the ability for you to create a print of your current map using one of our pre-defined Spatial NI templates.

Once the widget opens, you will be able to give you map a title and select a layout option.



Layout options to choose from are:

- A4 Portrait
- A4 Landscape
- A3 Portrait
- A3 Landscape

Click **Print**.

Spatial NI only provides the ability to print to a PDF document.

Your print will appear as a listing within the widget:

Map title:

Layout:

Format:

 **Print**

1.  Document Test

 **Clear prints**

Click on the map title to open the PDF.



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Document Test

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Coordinate System: TM65 Irish Grid

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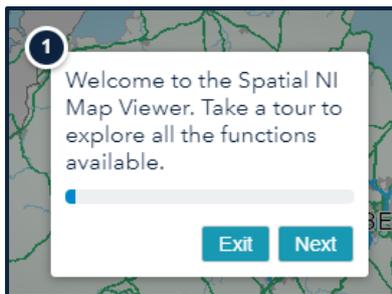
You can then save this file to your device or print your map.

Information

Map Tour



Take a tour of our map viewer and explore all the functions available by clicking on this widget.



Once launched, you will have the ability to step between each of the icons in the map viewer and discover what it can be used for.

About



Open the about widget to get some background information on the map viewer and to review our terms of use.

Help



Use the help widget to access this help document or to find out how to contact us should you need further advice or assistance.

Further help and support

Should you encounter an issue or need any further advice when using our map viewer, [contact](#) our support team.