

# GMCC Mapping Application

## A brief manual.

# Map Viewer

The map viewer allows you to view maps that have been built using the Map Builder application.

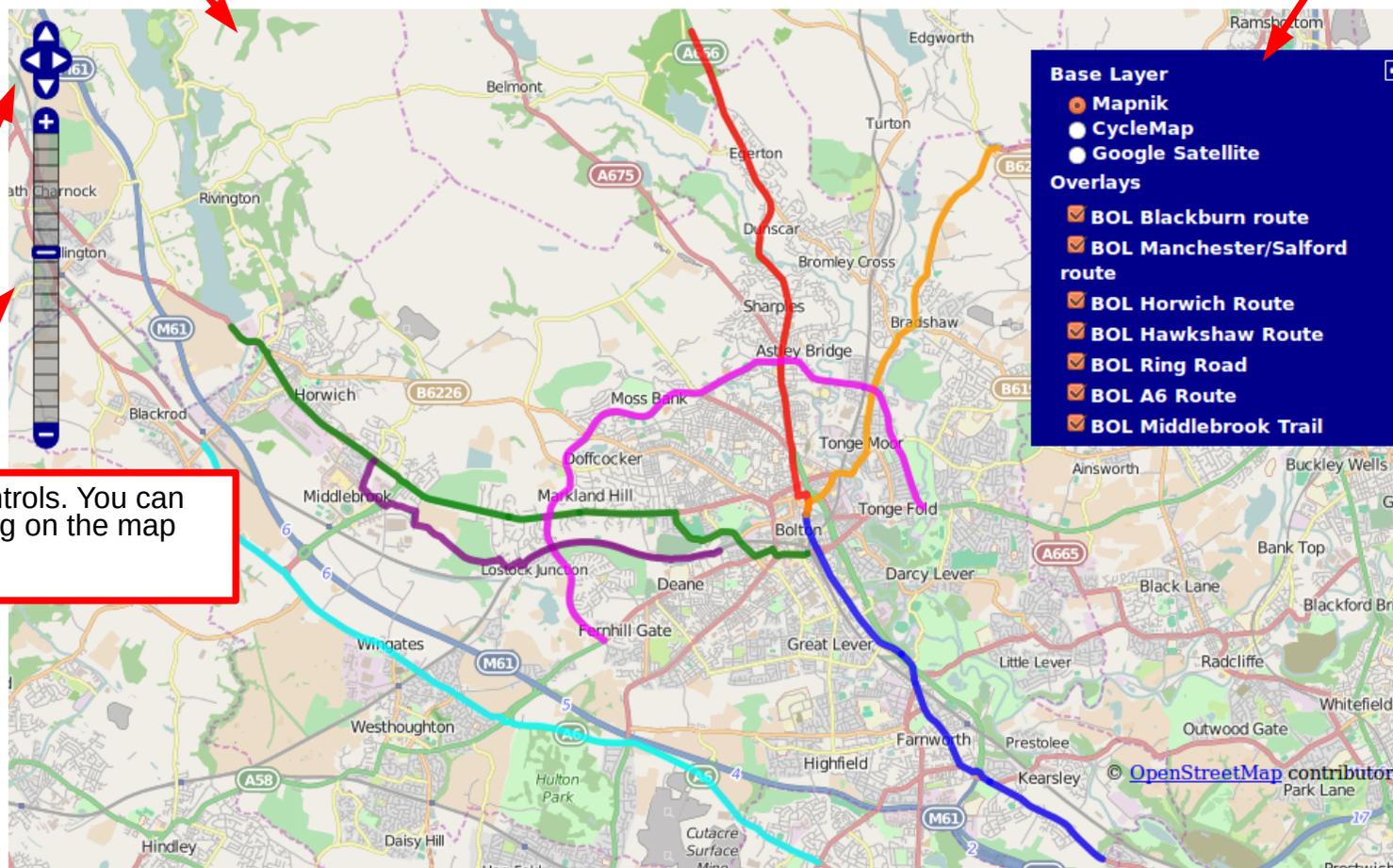
You don't need any special permissions to view maps.

The following pages shows the main controls in the Map Viewer.

The map itself is created and displayed using the OpenLayers mapping library.

Most of the page is taken up by the map, which shows routes that have been added by the person who built the map.

Allows you to show or hide routes and/or change the background map. (This starts off hidden, with a small '+' icon to reveal it.)



Pan and scale controls. You can also pan by clicking on the map and dragging.

**Map:** [Bolton Strategic Routes](#) | [GMCC Mapping Application](#) |

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*Hover the pointer over a route to see information. Click a route to pin (freeze) the info, then click the pin (📌) to unpin it.*

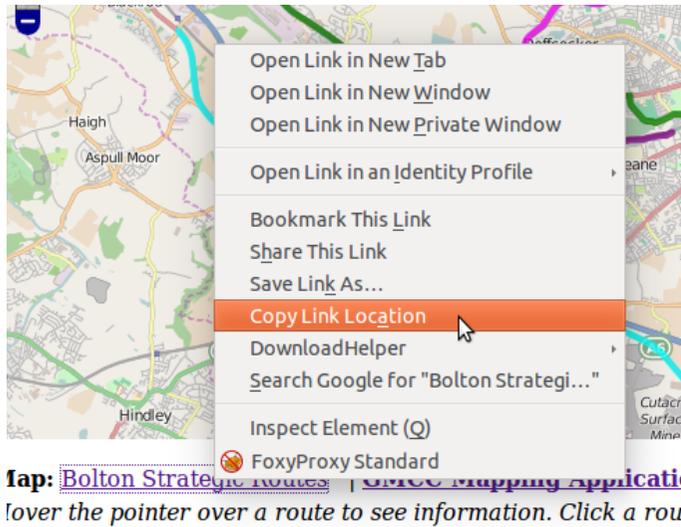
This provides a direct link (URL) to the map. The link may be copied for use in web pages. Maps accessed using this link will have a simplified user interface.

Click to return to the list of available maps.

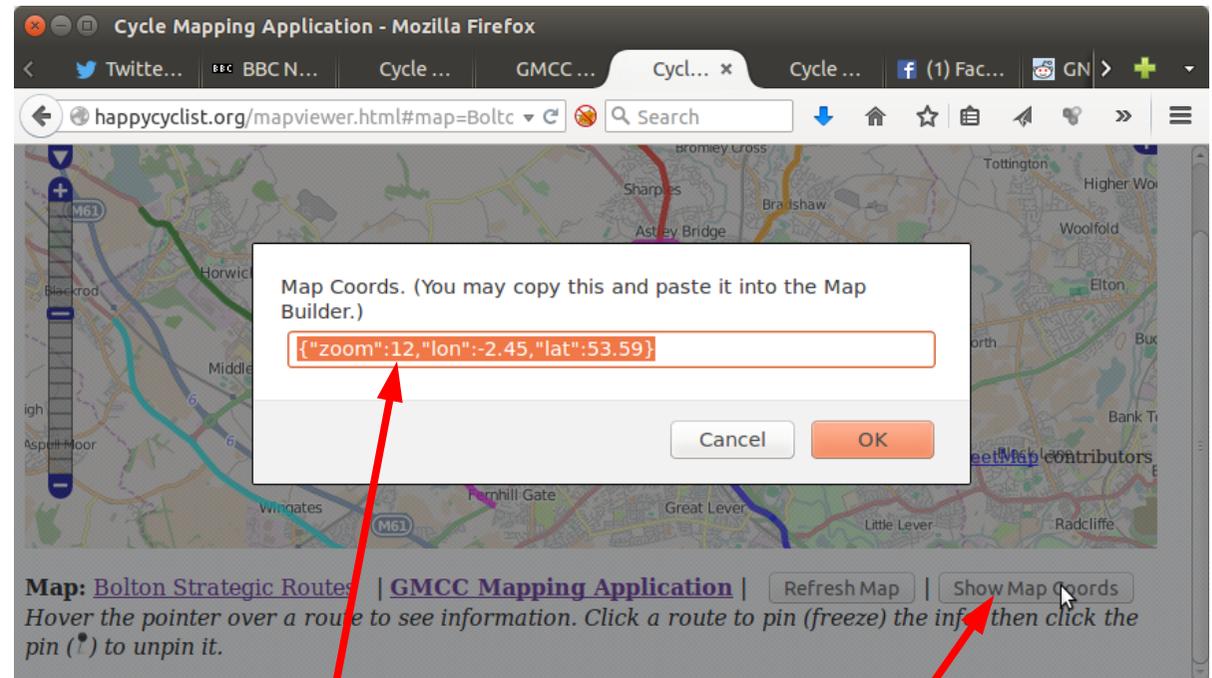
Click to refresh the map. (Handy if you are using the Map Builder.)

Click to open a dialogue box showing the current zoom and position. This may be copied and pasted into the Map Builder.

## Using some of the controls in the Map Viewer



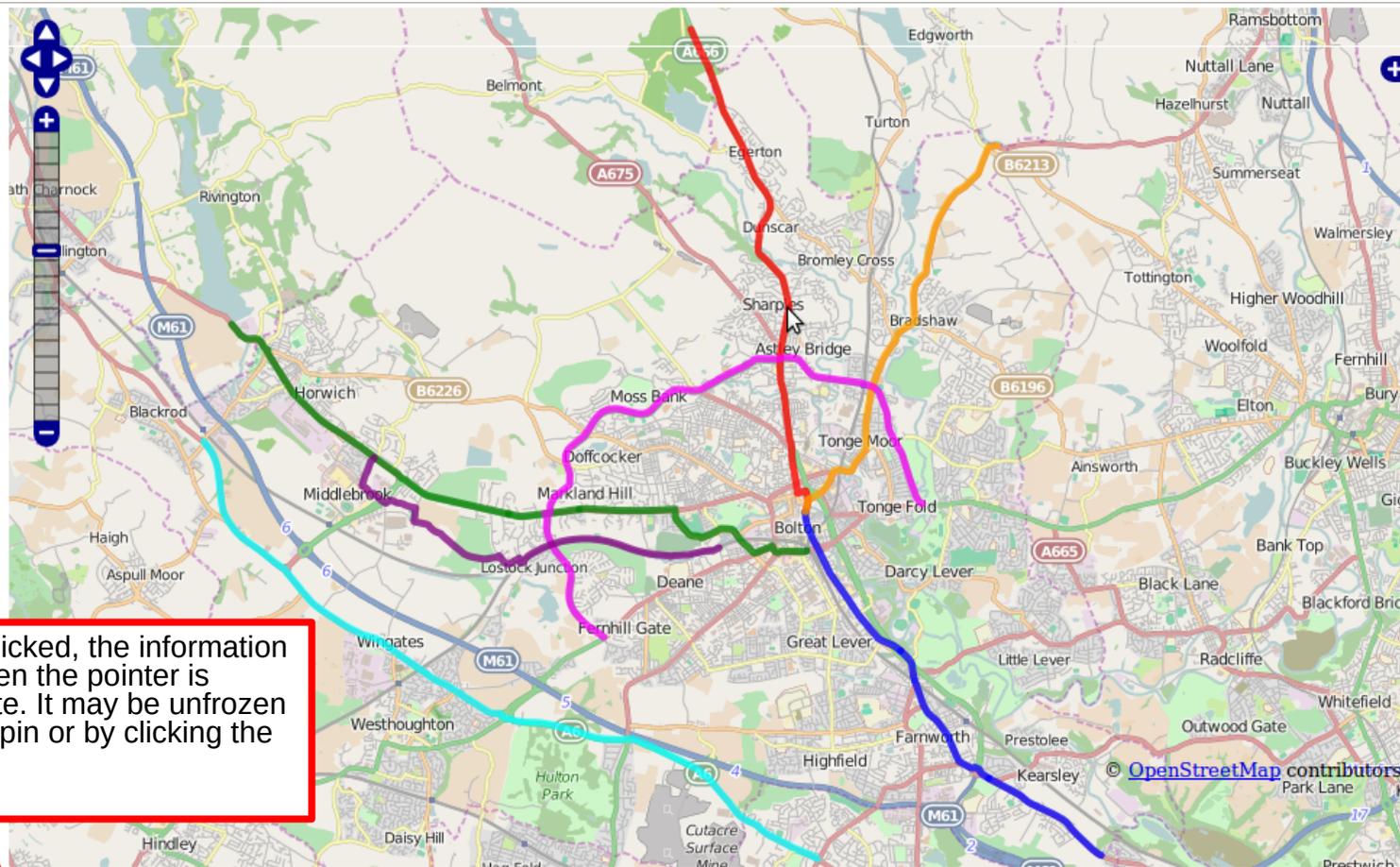
Copying the direct link (URL) for a map in Firefox browser. The menu is obtained by right clicking on the map name.



Display the current map position and zoom level using the *Show Map Coords* button.

The text string shown may be copied and then pasted into the Map Builder to set the map's default position and zoom level.

Shows the map when the mouse pointer is hovered over a route. (The red one in this case.)  
The text at the bottom changes to show information about the route.



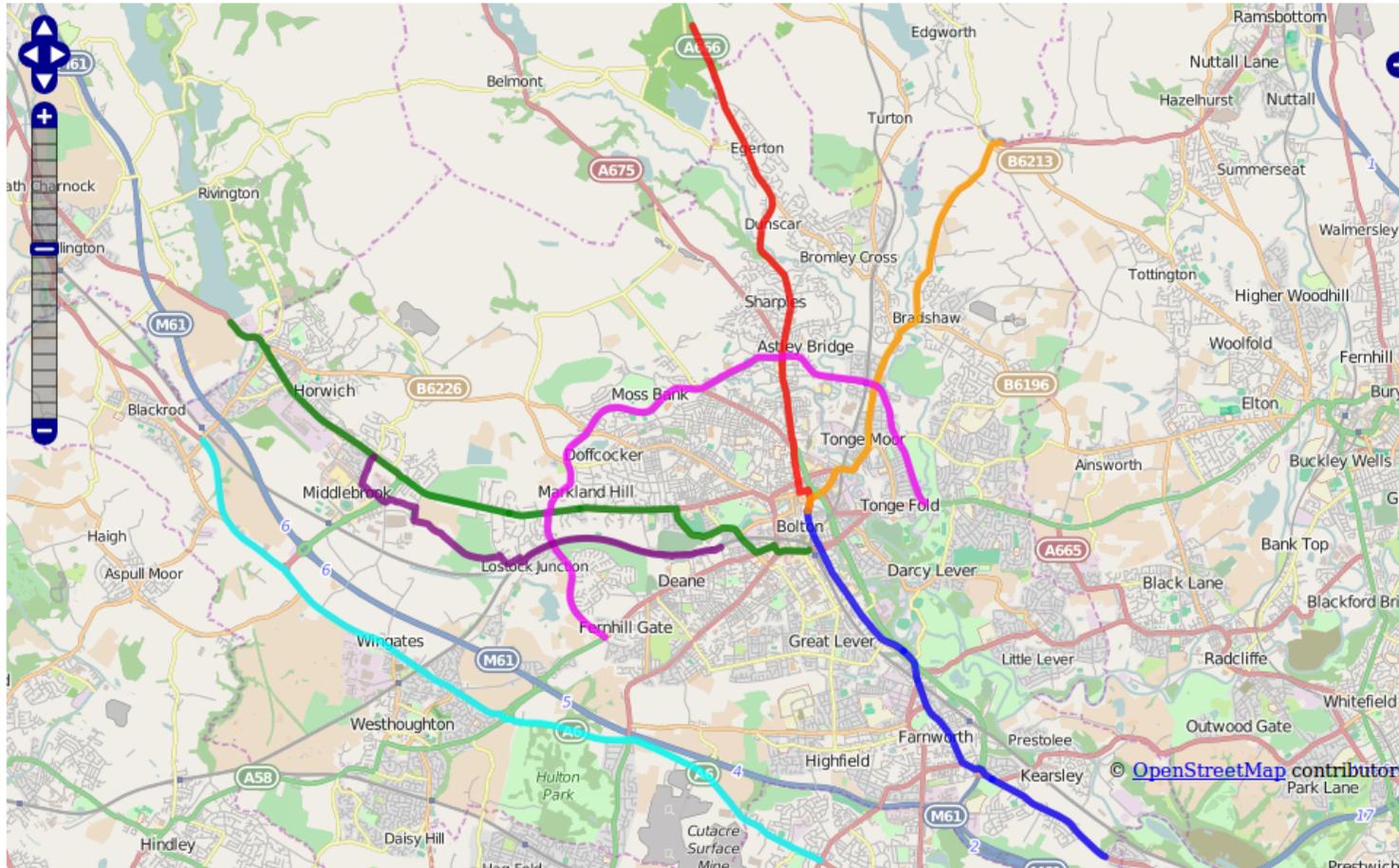
When a route is clicked, the information is frozen even when the pointer is moved off the route. It may be unfrozen by clicking on the pin or by clicking the route again.

**Map:** Bolton Strategic Routes | **Route:** BOL Blackburn route | **Description:** A666. Busy main road mostly without cycle lanes.

**Gallery:** <http://www.cyclestreets.net/galleries/252/>

This is a link to a CycleStreets (or OpenStreetmap) picture gallery for the route. (May be added using the Map Builder.) A link to a web page with further information about the route may also be provided.

Shows how the map looks when accessed through the direct link (URL) rather than through the map viewer. This particular map is displayed using the URL:  
<http://mapping.happycyclist.org/mapviewer.html#map=Bolton%20Strategic%20Routes>



Bolton Strategic Routes - Bolton strategic cycle routes as defined in the last cycling strategy.  
*Hover the pointer over a route to see information.*

A simplified version of the information is provided at the bottom of the map.

# Map Builder

This section contains brief instructions for the Map Builder application.

This application allows you to create maps and add routes (GPX files) to them for display in the Map Viewer.

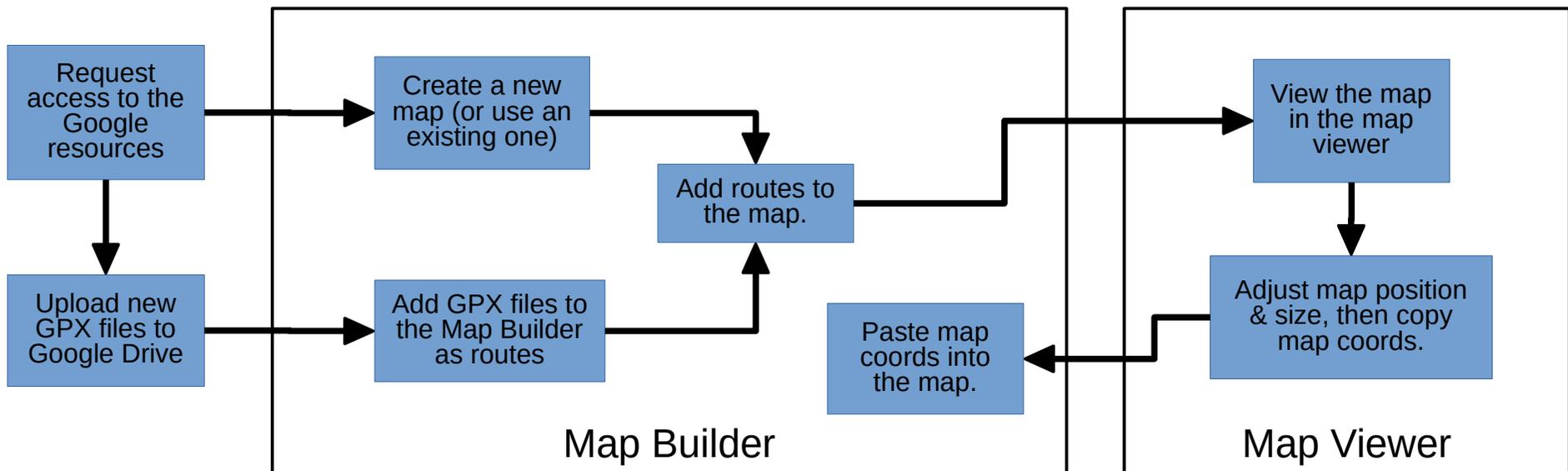
GPX files may be added to the server by uploading them to the *GPX Files* folder in Google drive. In order for you to gain access to this folder, you must have a google account, and the folder (as well as the Google Fusion Tables that are used in the application) must have been shared with you via your Google Drive. To get these resources shared with you, you need to ask the system administrator. (Grahame Cooper for this test installation.)

The available line styles are defined in one of the Google Fusion tables and may be edited there.

Note, a good online tool for generating GPX route files is available at: <http://www.plotaroute.com/>

## Workflow:

This is the workflow for creating and editing maps.



Shows a list of the names and descriptions of all the available maps in the system. When you select one of these, the data about the map will be shown in the fields below the list box.

Creates a new map using the data that is currently shown in the field below the *Maps* list box. The Name field must not be the same as that of an existing map. The lon, lat and zoom fields should be used to set the initial longitude and latitude of the centre of the map and the initial zoom level. If these are blank or invalid, the map viewer will just set the map to show an overview of Greater Manchester. To find suitable values for these, you can set the map position and zoom in the map viewer and then see the settings using the map viewer's *Show map coords* button.

**Maps:**

Bolton CCAG2 Plans - Grahame's guess as to what will be in Bolton's part of the  
Bolton Strategic Routes - Bolton strategic cycle routes as defined in the last cyc  
DSB test - Potential strategic routes in Manchester city centre  
MCRcentral - MCR Central Primary Cycleways  
Newsletter deliveries - Delivery rounds for GMCC newsletters.  
Previous Rides - Some previous rides done by Grahame.  
Test Map - Just testing.

Show Routes      Name: Test Map      New Map

lon: -2.45      Description:  
lat: 53.58      Just testing.  
zoom: 12

Paste Coords      Update Map Info

Load the routes that are included in the currently selected map into the *Routes on Map* box. You can then start to manage which routes are included in the loaded map and the styles in which they should be shown.

This will update the information about the map that is currently selected in the *Maps* list box to the values shown in the fields. (The name of a map cannot be changed as this is used as an identifier for the map.)

**Routes on map: Test Map**

GSC Bolton - ring road - A6 - NCR55 (2014-02-05.gpx | blue)  
BOL Manchester/Salford route (BoltonRoute2.gpx | purple)  
BOL Middlebrook Trail (BoltonRoute7.gpx | orange)  
GSC Bank Top to Chapeltown circular (Chapeltown.gpx | red)

Remove route      Alt Style: none      Update      Delete

Allows you to paste a coordinate set into the lon, lat and zoom boxes. The coordinate set is in the form: {"zoom":12,"lon":-2.45,"lat":53.58} and may be copied using the map viewer's *Show map coords* button.

The controls in the Maps box.

Shows a list of the names and GPX file names of all the available routes (GPX files) in the system. When you select one of these, the data about the route will be shown in the fields below the list box.

Allows filtering of the route list. (Currently only by ownership as specified in Google drive.)

Deletes the currently selected route from the available routes in the system. This does not delete the GPX file from the server; that can be done in the Google drive GPXFiles folder.

Adds the currently selected route to the map whose routes are being displayed in the "Routes on map:" box. You may specify a different display style for the route using the Alt Colour field.

MCR Central - MCR Central Primary Cycleways  
Newsletter deliveries - Delivery rounds for GMCC newsletters.  
Previous Rides - Some previous rides done by Grahame.  
Test Map - Just testing.

Show Routes

Name: Test Map

New Map

Data about the route. The "Gallery" field should contain a link to an OpenStreetMap photo gallery. The "Link" field may be used to provide a link to a web page with further information about the route.

### Routes on map: Test Map

GSC Bolton - ring road - A6 - NCR55 (2014-02-05.gpx | blue)  
BOL Manchester/Salford route (BoltonRoute2.gpx | purple)  
BOL Middlebrook Trail (BoltonRoute7.gpx | orange)  
GSC Bank Top to Chapeltown circular (Chapeltown.gpx | red)

These three controls are used to add a new GPX file to the available routes. The drop down list shows all the GPX files on the server that have not yet been added. New GPX files may be added to the server by uploading them into the GPXFiles folder that needs to be shared with you on your Google drive.

Available Routes:  All  Mine

BOL A6 Route (BoltonRoute6.gpx | cyan)  
BOL Blackburn route (BoltonRoute1.gpx | red)  
BOL Hawkshaw Route (BoltonRoute4.gpx | orange)  
BOL Horwich Route (BoltonRoute3.gpx | orange)  
BOL Manchester/Salford route (BoltonRoute2.gpx | purple)  
BOL Middlebrook Trail (BoltonRoute7.gpx | orange)  
BOL Ring Road (BoltonRoute5.gpx | orange)  
Bolton newsletter (BoltonRoute8.gpx | orange)  
Bolton-Bury Canal (BoltonRoute9.gpx | orange)  
GSC Bank Top to Chapeltown circular (Chapeltown.gpx | red)  
GSC Bolton - Anderton Boat Lift (AndertonLift400.gpx | orange)  
GSC Bolton - ring road - A6 - NCR55 (2014-02-05.gpx | magenta)  
GSC Bolton to Southport round trip (Southport200.gpx | blue)  
GSC Bolton-Blackburn Dec 2014 (03\_12\_2014\_200.gpx | cyan)  
GSC Rivington 2015-02-25 (Rivington-2014-02-25.gpx | blue)  
MCR Ring: Outer-North (CC-ring-outer-north.gpx | cyan)  
MCR City centre E-W link (City Centre E-W.gpx | red)  
MCR City centre N-S link (City Centre N-S.gpx | red)

This will update the information about the route that is currently selected in the Available Routes list box to the values shown in the fields.

<-- Add to Map

Alt Style: none

Delete Route

Name:

Description:

Style: none

Gallery:

Link:

Update Route Info

NCR55-Bolton.gpx (34762)

Add New Route

Refresh file list

[GPX Upload](#)

Link opens a new window or tab with the GPX files folder open on Google Drive.

The controls in the Available Routes box.

Shows a list of the names, GPX file names, and line styles of all the routes (GPX files) in the map that is currently being worked on. When you select one of these, the line style of the route will be shown in the field below the list box.

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MCRcentral - MCR Central Primary Cycleways  
Newsletter deliveries - Delivery rounds for GMCC newsletters.  
Previous Rides - Some previous rides done by Grahame.  
Test Map - Just testing.

Show Routes      Name: Test Map      New Map

lon: -2.45      Description:  
lat: 53.58      Just testing.  
zoom: 12

Paste Coords      Update Map Info

**Routes on map: Test Map**

GSC Bolton - ring road - A6 - NCR55 (2014-02-05.gpx | blue)  
BOL Manchester/Salford route (BoltonRoute2.gpx | purple)  
BOL Middlebrook Trail (BoltonRoute7.gpx | orange)  
GSC Bank Top to Chapeltown circular (Chapeltown.gpx | red)

Remove route      Alt Style: none      Update      Delete Map

Removes the route that is selected in the Routes on map list box from the map that is being worked on.

This will update the style that is used for the route that is currently selected in the Routes on map list box to the value shown in the Alt Colour field.

**Available Routes:**  All  Mine

BOL A6 Route (BoltonRoute6.gpx | cyan)  
BOL Blackburn route (BoltonRoute1.gpx | red)  
BOL Hawkshaw Route (BoltonRoute4.gpx | orange)  
BOL Horwich Route (BoltonRoute3.gpx | green)  
BOL Manchester/Salford route (BoltonRoute2.gpx | blue)  
BOL Middlebrook Trail (BoltonRoute7.gpx | purple)  
BOL Ring Road (BoltonRoute5.gpx | magenta)  
Bolton newsletter delivery (BoltonDeliveryRound.gpx | red)  
Bolton-Bury Canal (Radcliffe) (BoltonBuryCanal.gpx | red)  
GSC Bank Top to Chapeltown circular (Chapeltown.gpx | red)

MCR City centre E-W link (City Centre E-W.gpx | red)  
MCR City centre N-S link (City centre N-S.gpx | red)

← Add to Map      Alt Style: none      Delete Route

Name:      Description:  
Style: none      Update Route Info  
Gallery:      Link:  
NCR55-Bolton.gpx (34762)      Add New Route      Refresh file list      [GPX Upload](#)

Deletes the map that is currently being displayed on the "Routes on map:" box from the system. Only maps that have no routes on them can be deleted. (This is why the delete button is in this box rather than the "Maps" box.)

The controls in the Routes on Map box.