

plotting_route_walkthrough.docx

TJH 27-MAY-20

TJH 2-MAY-20 added the OS section etc.

Plotting a route taken

Introduction and Pre-requisites

This note follows my "mapping_route_taken" document and assumes the user has :-

- 1) A mobile (cell) phone with **"GPS Logger" by Basic Air Data**
- 2) Paid (or is willing to) a subscription to **Ordnance Survey** and got an associated username and password.

Recording a Track

- 1) Open "GPS Logger". The tab will default to "GPS FIX". Wait a few seconds for it to get location etc.
- 2) Press "Trackpoints" (bottom right). That button should show a red background. At the top of the screen a tick will appear. Beware of pressing the Android back chevron/arrow button and then answering "NO" to finalize question. If you do then the application still seems to be running but not recording Trackpoints. If you realise you have done this and want to continue then press the "Trackpoints" again (which should remain red when recording).
- 3) Provided that the count of "Trackpoints" is increasing (at say 1 every 3 seconds) you can use the phone physical button to switch the screen off. When the screen it on, if it is recording a track, the general Android screen e.g. top bar, will show an icon for "GPS Logger" (circle etc.)
- 4) End the TRACK by pressing the tick at the top or by using the Android back chevron/arrow button and answering "YES" to finalize question.
- 5) Shutdown the application with the 3 vertical dots.

Transferring the Track from Android to email box.

- 1) In "GPS Logger", select the "TRACKLIST" tab and then within it a Track (labelled by date-time of start). The selected track should change background from black to pink.
- 2) Select the share icon (3 dots linked by 2 lines)
- 3) Choose method e.g. "Email" (In my case this is a Samsung tool - red background with back of white envelope). Android has access to address list and can make suggestions of recipients. There doesn't seem to be a way to change the "Subject:" header or the body. Press the Send button (paper arrow)

Transfer the Track from email box to somewhere accessible by file browser

- 1) Login (MS Windows or Linux etc.) and select you mail tool (possibly using a web browser).
- 2) Look for an email with "Subject:" header starting "GPS Logger" and open it.
- 3) Ensure that it has an attachment with a ".gpx" extension and download that. If you only see attachments with ".txt" or ".kml" attachments you may have to go back into "GPS Logger" on Android and adjust your "Settings".

Showing the track on a map

- 1) In a web browser (e.g. Firefox) go to <https://osmaps.ordnancesurvey.co.uk/>

N.B. It is important to understand the "Expand" button which shows 2 arrows facing away from each other (I don't mean the scaling control showing +, -). It can switch between views. The main menu may be shown or hidden with the three-horizontal-lines icon (top left). When fully expanded the menu, and its show/hide button, are absent, but the "Expand" button, with the arrows still outwards, is still there ! You can either use the "Expand" button (meaning contract at this stage) or the physical Escape key. If you use the physical Escape key you get a slightly smaller map in your browser (shows more browser controls) but you don't get the menu, or its icon. If you use the "Expand" button the map contracts and shows the OS menu, including the menu button, above it.

- 3) Select "Sign in" (top right, unless you already are). The "Sign in" should change to something like your first name and "PREMIUM" with a drop-down menu. N.B. The "7 day fee trial" will remain !
- 4) Select "ROUTES" from the top menu or "Routes" from the side menu.
- 5) Select "Import GPX" (or "My Routes" if you have already imported it)
- 6) Select "Browse...". A file browser window (a "child" of the web browser you are using) should pop-up with "*.gpx" selected
- 7) Select the file (double-click or click and "Open") which should result in the file browser being replaced by a pop-up window showing the route on a map (reasonably scaled).
- 8) Select (optionally) "Make route private" (this does not seem to be the default or settable !) and then "Import route".
- 9) The "Import GPX" menu area should change to include "Success" and "Import another". The map should go back to your default, which, unless you have changed it, will show most of England.
- 10) Go back to the "Routes" menu and select "My Routes".
- 11) Ensure that "All" or the appropriate class e.g. "Walk" is selected. The "Sort:" will default to "A-Z". Assuming that you have not changed the names (it will have prefixed your file names with "Track ") this may result in the most recent being at the bottom of the list so you may want to select "Newest first" but there is no need to select a route from the "My Routes" menu as all of the selected class, with counts, will be shown on the main map.
- 12) Use the map +/- slider and mouse (left by default) button to move around the map or double-click on the red dots containing route counts or the green "pins".
- 13) On a pop-up over the map select "View route".
- 14) If you haven't changed the "Layer" you are viewing yet it may have defaulted to "Standard". If you want to see Public Rights of Way (footpaths etc.) use the layers icon (bottom right) and change to "OS Leisure Maps". (Map scaling seems a little coarse/jumpy.) (I don't know whether the GPX format support waypoints. The map does not seem to be showing ones I recorded in "GPS Logger" but the "Route Details" includes "Label waypoints on the map".)

Printing the map with track to a .PDF file (or paper)

- 15) Select (top right or from the main menu) "Print". "Preview", especially if using "Fit map to page" seems worthwhile ! Then "Print" in preview.
- 16) In Operating System e.g. MS Windows, select the appropriate "printer" e.g. "Microsoft Print to PDF", etc., then (Operating System) "Print" then, if to PDF, in MS, "Save Print Output As" window name the PDF file (it does not default).

