

MapRun for CSS– Using Console & Purple Pen

MapRun Files

MapRun requires two sets of files, *kmz* map files and *kml* course files. These files are needed to create an event and for the planner to check that his control sites are accurate.

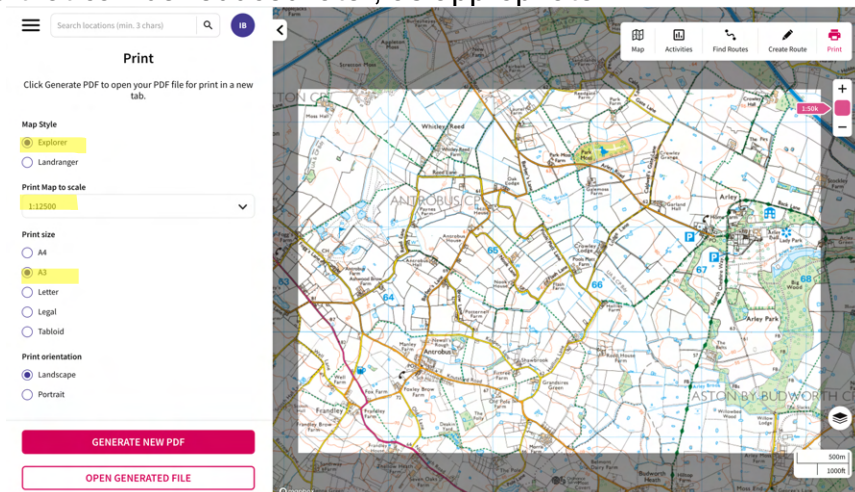
To create the event the *kmz* and *kml* are needed by the club MapRun Administrator to upload to the MapRun website server.

These files are also necessary for the planner to use the MapRun Check Sites utility, that is on the MapRun App, to make sure control sites register accurately before the event goes live.

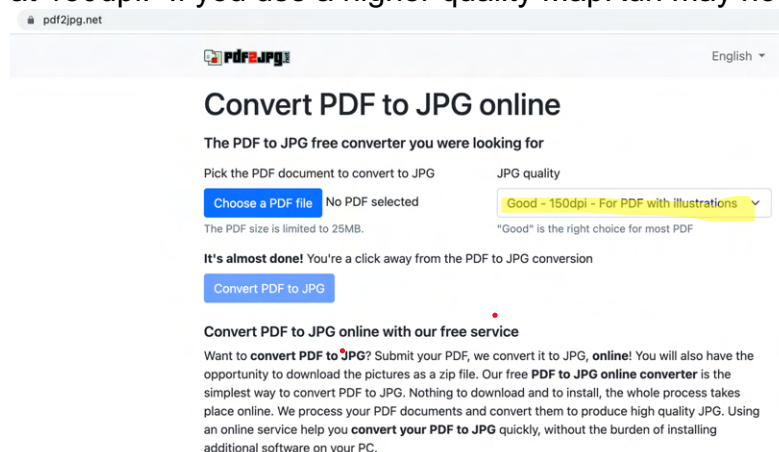
The map file needs to be georeferenced, otherwise a useable *kmz* and *kml* cannot be created.

Creating a Usable Map

Step 1 (OS): Source your map. Subscribers to OS maps can create PDF maps at 1:25,000 (explorer). Set the print map to scale at 1:12500 and print size to A3 to get sufficient area that can be reduced later, as appropriate.

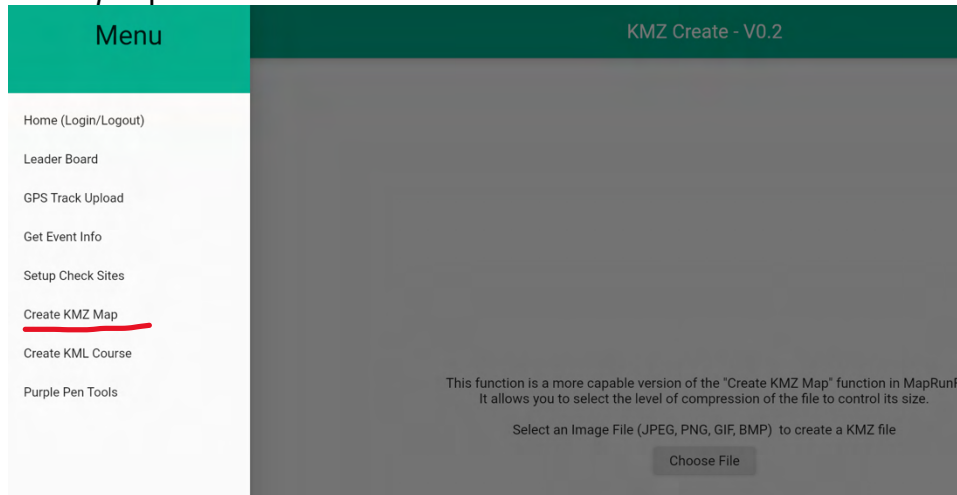


Step 2 (PDF2JPG): Convert the PDF file to a JPG using PDF2JPG <https://pdf2jpg.net/> use JPG quality at 150dpi. If you use a higher quality MapRun may not work.

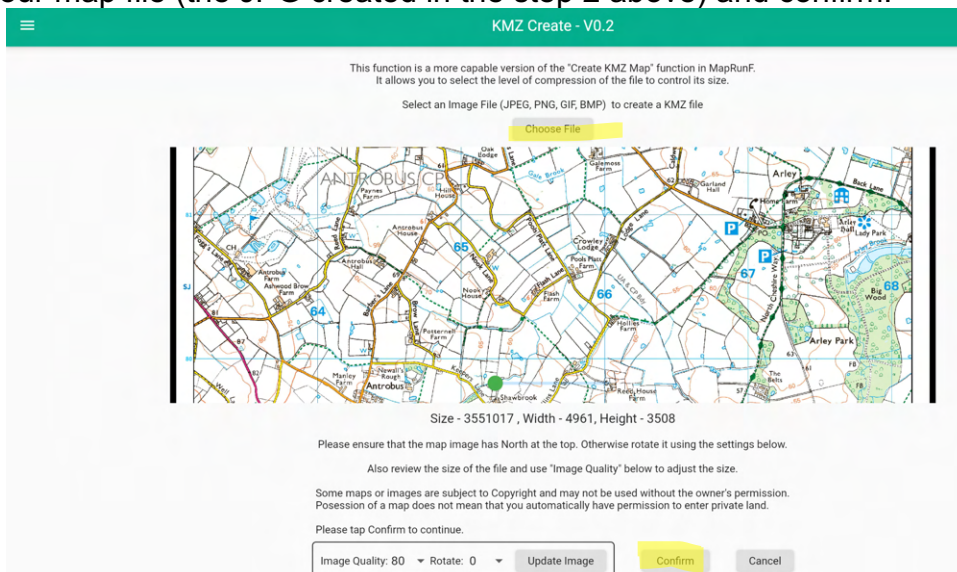


Creating a KMZ file of the map

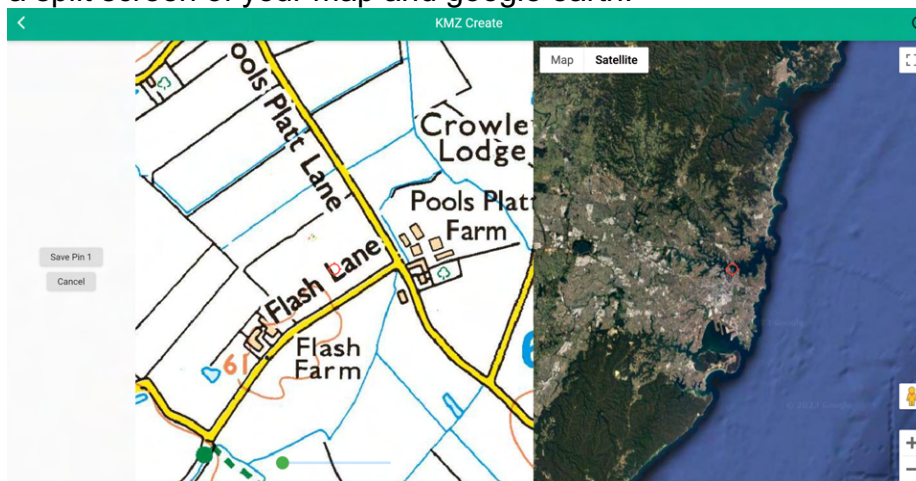
Step 3 (MapRun Console): MapRun requires the maps it uses to be in *kmz* format. You can create one using the MapRun Console <https://console.maprun.net/#/> From the MapRun Console menu (three lines in top left-hand corner) you select the 'Create KMZ Map' option.



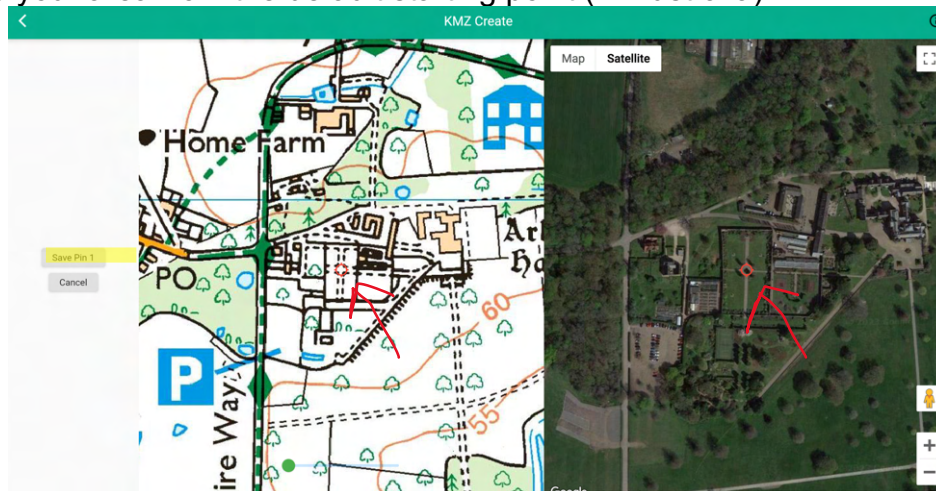
Choose your map file (the JPG created in the step 2 above) and confirm.



This opens a split screen of your map and google earth.

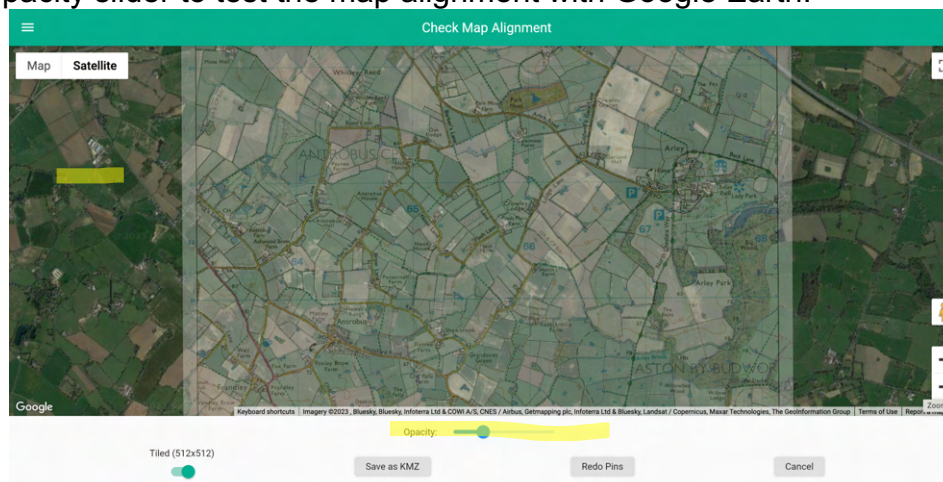


Georeferencing: You now need to geo-reference your map by setting two pins. Ideally these should be obvious locations in opposite corners of the map. You will need to navigate to your area from the default starting point (in Australia).



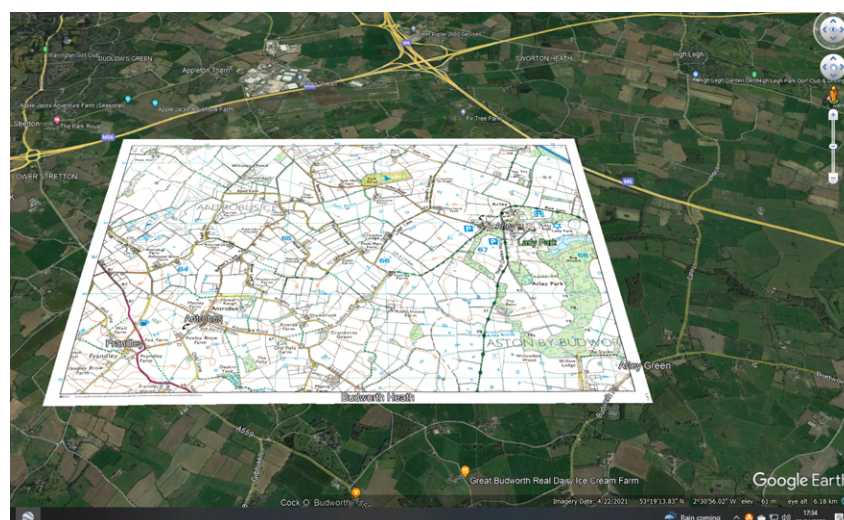
When the two circles are aligned in the right place click save pin1 and repeat for pin 2 (in the other corner of the map).

Use the Opacity slider to test the map alignment with Google Earth.



Save as a KMZ file if you are happy with the alignment.

Click on your KMZ file and it should now open in Google Earth and place the map in the right location.



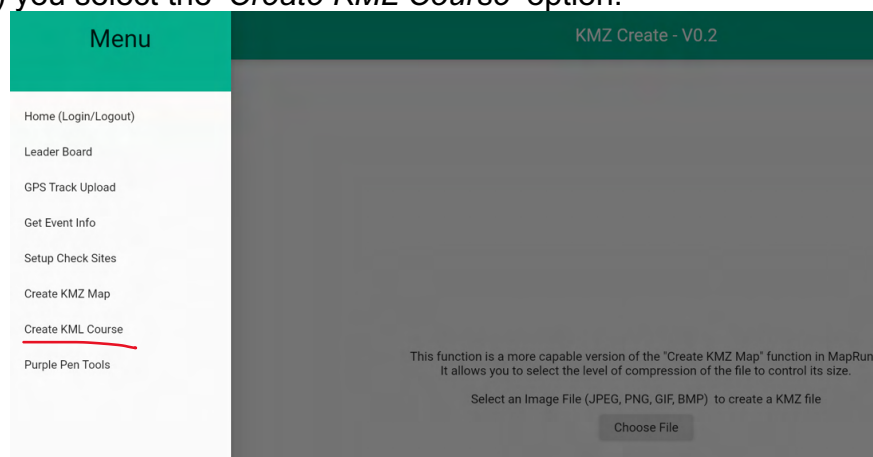
KML Course File

Step 1 (Course setting): Create your course in Purple Pen (*popen*). These instructions are for one course. This KML process would need to be repeated for each additional course.

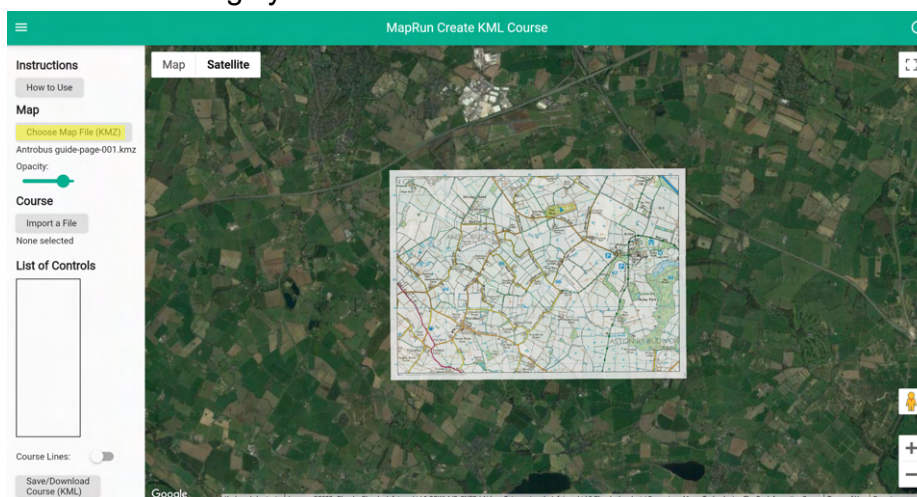


Save the *popen* file. Alternatively, if using Condes, the start and finish must be S1 and F1 in the courses control list and the file is *IOF XML*.

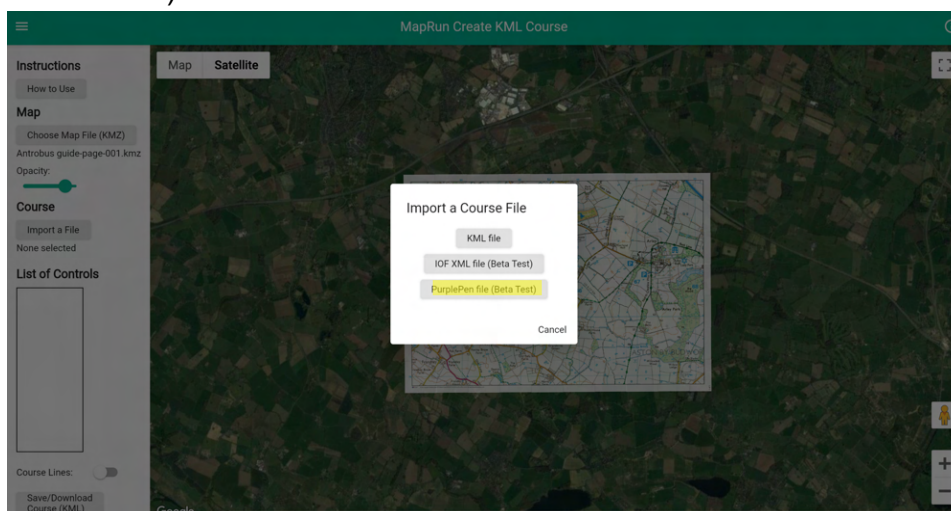
Step 2 (Upload KMZ Map): From the MapRun Console menu (three lines in top left-hand corner) you select the 'Create KML Course' option.



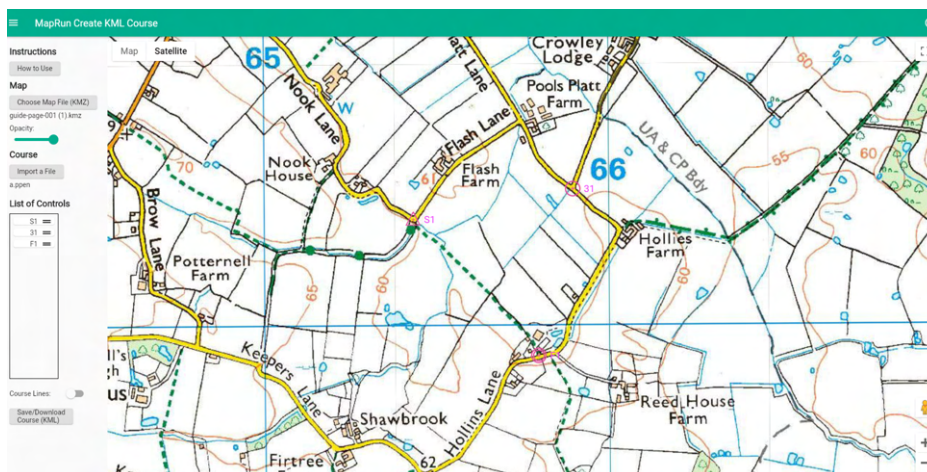
Upload the KMZ map file that you have created (see above). It is at this point that indiscipline in file naming and storing could create problems. Have a clear naming convention and ruthless filing system.



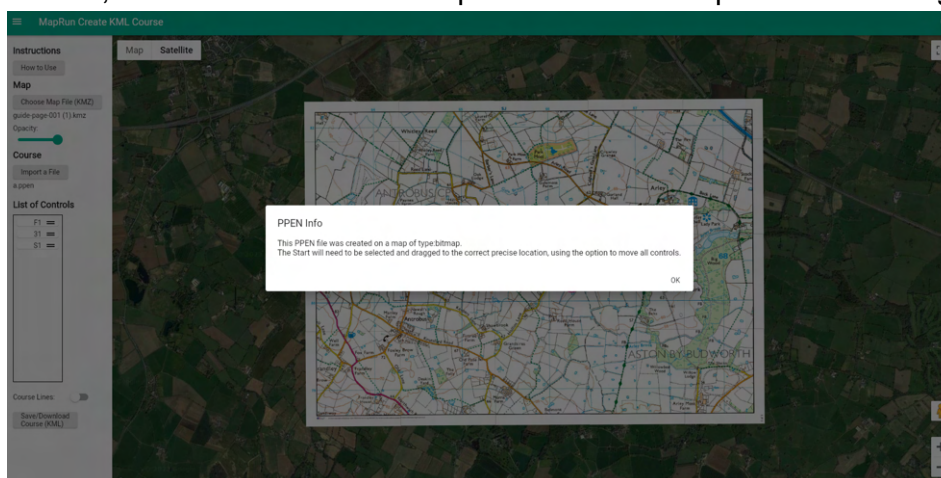
Step 2 (Upload Course File): Secondly upload the Purple Pen (*ppen*) course file (or Condes files *IOF XML*).



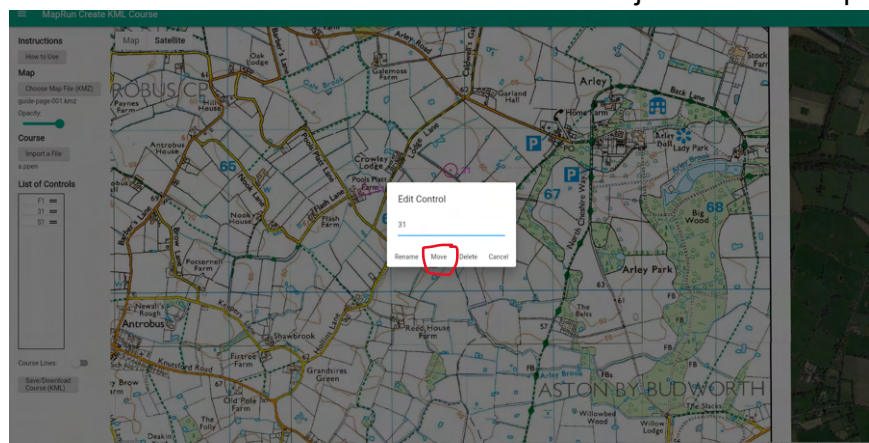
It should look like this.



Step 3 (Move controls, start, and finish to the precision location in google earth): It is very important for the smooth running of the event that the controls are located accurately in reference to the Google Earth. The map is a depiction and google earth is reality. Therefore, we can live with some imprecision in the map but not on the ground.

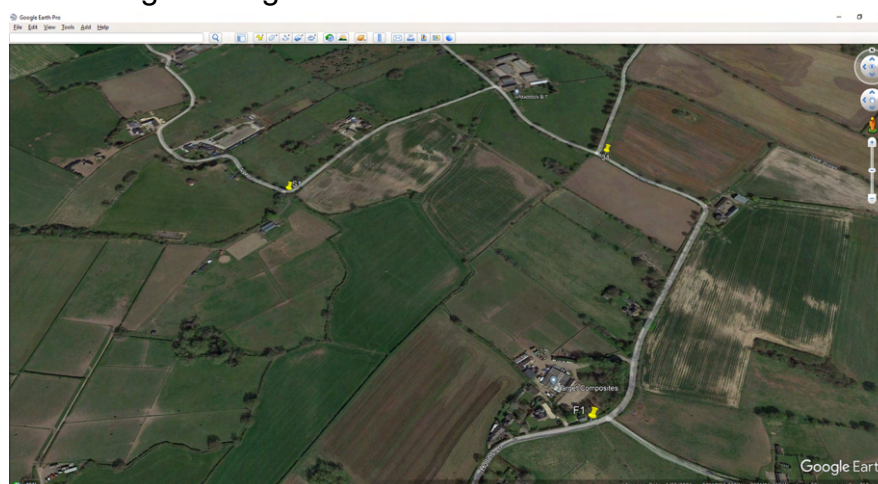


Right click on the control and select move. You can now adjust the control placement.



Step 3 (Creating KML file): Click the 'Save/download Course (KML)' button in the left-hand corner to create your KML file.

Step 4 (Checking your KML file): You can check your course control sites by opening the *kml* file and viewing in Google Earth.



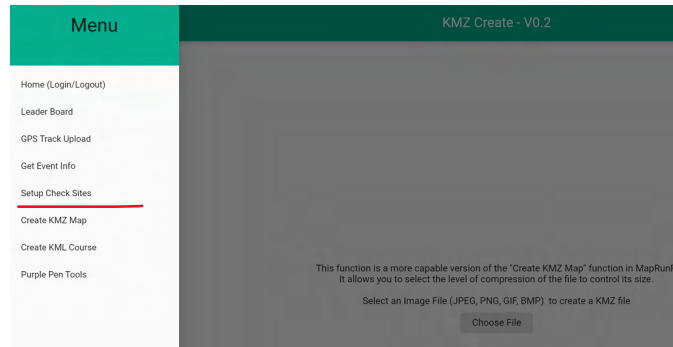
The *kmz* and *kml* files are now ready for use for Check Sites and then in setting up your MapRun event.

Step 5 (Amending your KML file): You can revise your KML file by going onto the maprun console and using the 'Create KML' function, there is an option to import an existing KML file. This feature allows you to amend (delete, add, move and rename) controls in your existing KLM file. After amendments have been made, you can save the new KML file with a new name.

Check Sites

Check Sites is a utility that allows planners to go out using MapRun on their phone to check the viability of their chosen control sites. To set up a Check Sites for your event you need to use the *kmz* map file and an all controls *kml* file.

Step 1 (Setting Check Sites): Open the MapRun Console. From the menu select the 'Setup Check Sites'



This will open a page of information required. Fill in the event name (unique), expiry date (choose an expiry date long time for you, the check site facility is temporary in nature), your name and contact details.

The image shows the 'Setup CheckSites' form. It includes a title 'CheckSites' and a detailed explanation of the feature. The form has several input fields: 'Event/Map Name' (with a note to include 'PXAC' for course lines), 'Expiry Date' (set to 'Mon, 22/5/2023'), 'Surname' (with a dropdown arrow), 'First Name' (with a dropdown arrow), and 'Email Address' (with a dropdown arrow). There are also checkboxes for 'See all allowed codes' and 'Add the Event' at the bottom.

Upload your KMZ (map) and KML (course) files using the 'Chose File' buttons.

This image is a closer view of the 'Setup CheckSites' form, focusing on the file upload section. It shows the 'Map' section with a 'Choose Map File (KMZ)' button and the 'Course' section with a 'Choose Course File (KML)' button. Red arrows point to these buttons. Below these are 'Default Settings' for 'DISPLAY location and track', which is currently turned 'ON'.

A six-digit code will be generated at the bottom of the page. **Make a note of your code**, you will need it later.

The image shows the bottom of the form with an 'Add the Event' button and a generated 'CheckSites Code: 739252'.

The Check Sites can be treated as a Score event, you do not have to check the controls in a specific order.

Step 2 (Using Check Sites):

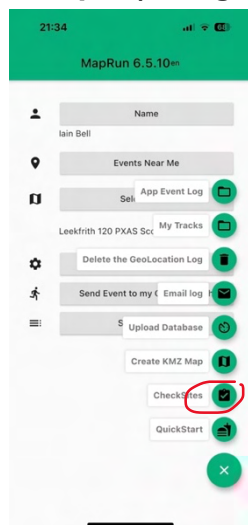


Figure 1

Open the MapRun app on your phone and click on Check Sites (figure 1).

Enter your Check Sites code (figure 2).

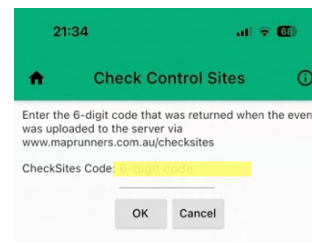


Figure 2

When downloaded the screen will then change to the main screen with your name of the Check Sites event. Tap 'Go to Start'. The map with control sites will then appear (figure 3).

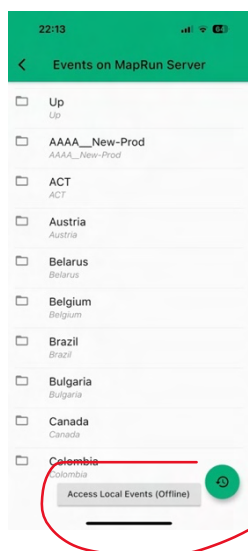


Figure 4

You can also 'Select Event' then tap 'Access Local Events (Offline)' (figure 4) to select your event.

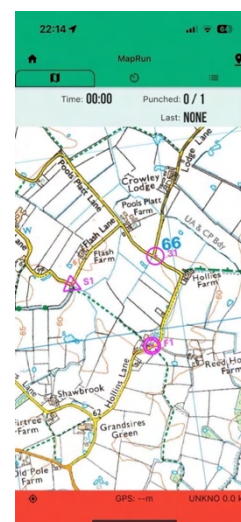


Figure 3

Step 3 (Adjusting Settings): In the App's Settings menu there are several options. One particularly useful option is '*Punch Tolerance (m)*' within the Event section. The radius is 3m to 50m. By default, it is set at within 15m. This can be reduced for checking control sites. By testing it at a tighter radius (suggested 8m) means that there should be less problems at higher settings. It is also advised to have a much wider punch tolerance radius for use in woods. The GPS signals can be poor in this type of terrain due to leaf cover.