

Manual and workflow for Mobac MAP data to JPR (Mob2J)

Mobac MAP Data to JPR

Select a MAP file

Find MAP file

MAP file location

C:\Users\Hans\Desktop\M2J\example 14.map

MAP file content

```
OziExplorer Map Data File Version 2.2
example 14.png
example 14.png
1 ,Map Code,
WGS 84,WGS 84, 0.0000, 0.0000,WGS 84
Reserved 1
Reserved 2
Magnetic Variation,,,E
Map Projection,Mercator,PolyCal,No,AutoCalOnly,No,BSBUseWPX,No
Point01,xy, 0, 0,in, deg, 52, 32.176382, N, 6, 38.144531, E,
grid, , , ,N
Point02,xy, 5375, 0,in, deg, 52, 32.176382, N, 7, 5.824928, E,
grid, , , ,N
Point03,xy, 5375, 3583,in, deg, 52, 20.928937, N, 7, 5.824928, E,
grid, , , ,N
Point04,xy, 0, 3583,in, deg, 52, 20.928937, N, 6, 38.144531, E,
grid, , , ,N
Point05,xy, , ,in, deg, , , grid, , , ,N
Point06,xy, , ,in, deg, , , grid, , , ,N
Point07,xy, , ,in, deg, , , grid, , , ,N
Point08,xy, , ,in, deg, , , grid, , , ,N
Point09,xy, , ,in, deg, , , grid, , , ,N
Point10,xy, , ,in, deg, , , grid, , , ,N
Point11,xy, , ,in, deg, , , grid, , , ,N
Point12,xy, , ,in, deg, , , grid, , , ,N
Point13,xy, , ,in, deg, , , grid, , , ,N
```

Create a JPR file

Build JPR file

Resolution in DPI to calculate scale

254

Save JPR file

JPR file content

```
//This file was created using Mobac MAP data to JPR (Mob2J) by
www.hzns.nl
nm=example 14.png
dm=wgs84
st=0
sn=0
pr=mercator
pp=0
p2=1
p3=0
p4=0
it=png
sr=254
sc=58425
rp1=52.536273,6.635742,0,0
rp2=52.536273,7.097082,5375,0
rp3=52.348816,7.097082,5375,3583
rp4=52.348816,6.635742,0,3583
vp1=0,0
vp2=5375,0
vp3=5375,3583
vp4=0,3583
```

Disclaimer

Clear All

Close/End program

Disclaimer

⚠

This application is provided 'As is'. The use of the application is on your own risk. Direct or indirect damage by using this application is users responsibility, not the application-builders. Redistribution by a third party (commercial or non-commercial) is prohibit. Please download the application direct from www.hzns.nl.

OK

Version: 0.2 (November 1, 2019)

(J.A. Kok, info@hzns.nl)

Content

Content	2
Change log	2
Before you start	3
The workflow contains the following steps	3
Creating your map with Mobac	3
Creating the JPR-file for Memory-Map	4
Manipulating the image-file of your chart	4
Creating your Memory-Map QCT file	5
The other buttons	7
About editing the file names and the JPR-file content.	7

Change log

Version	Date	Remarks
0.1	October 1, 2019	Trial version
0.2	November 1, 2019	Initial version

Before you start

This workflow will tell you step by step to convert a by Mobac created map (PNG-file and MAP-file) and implement this map in Memory-Map. The tools used in this procedure are Mobile Atlas Creator (Mobac) to create the map, a pixel orientated graphics program to reduce the color depth of the image (I prefer Paint.Net) and Memory-Map with a proper license to run a third party maps (what we are doing). If you like to use your map on another device using Memory-Map, you need a second license for third party maps. If you want to manipulate the content of the JPR-file you need further more a (simple) text editor.

The workflow contains the following steps

1. Creating your map with Mobac
2. Creating the JPR-file for Memory-Map
3. Manipulating the image-file of your map
4. Creating your Memory-Map QCT file

Creating your map with Mobac

Although this manual tells you to create a map in Mobac, it isn't a replacement for the Mobac Quick Start Manual.

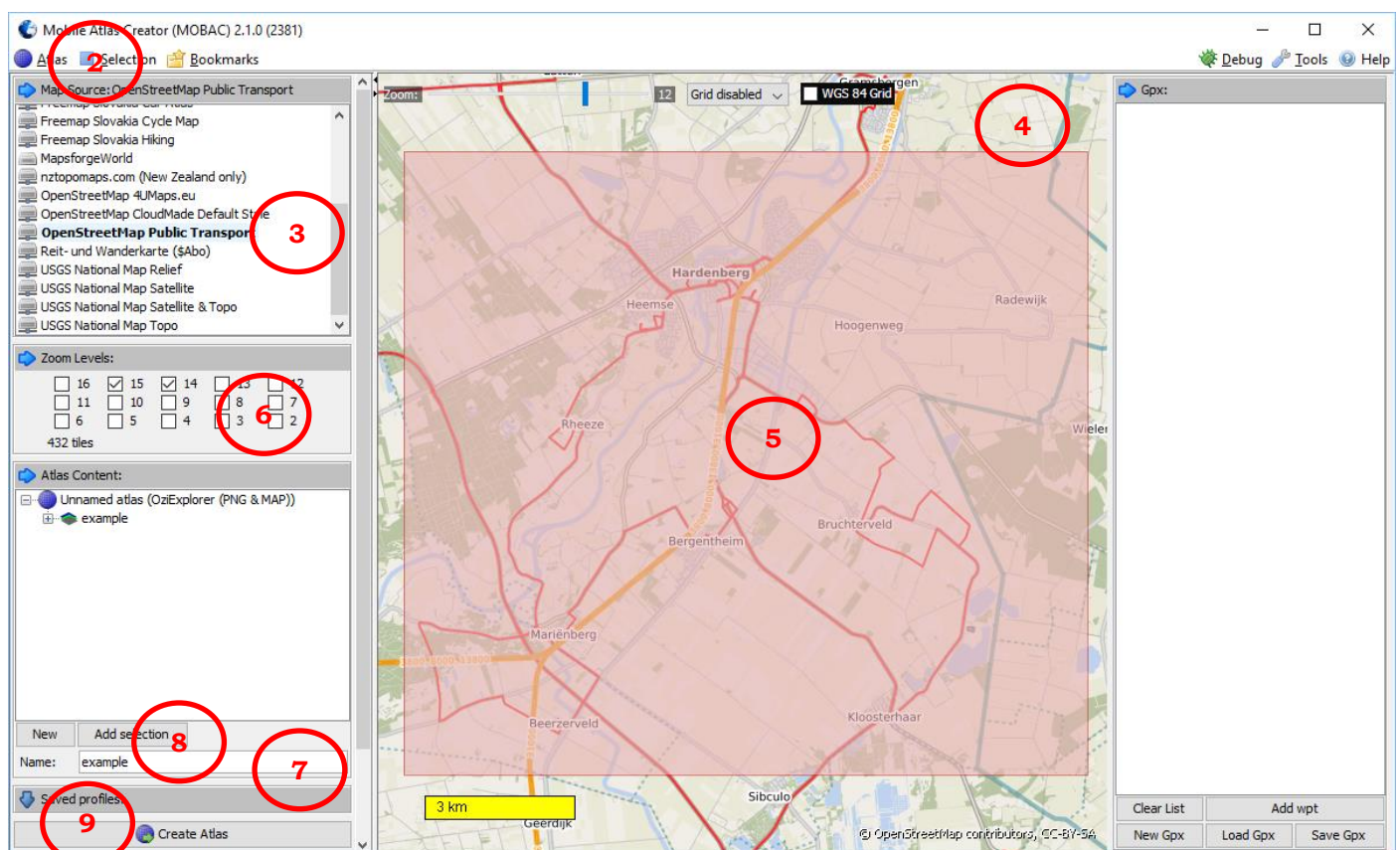


Image 1: Mobac screen

1. Start Mobac.
2. Select in *Convert Atlas Format* (Atlas > Convert Atlas Format) *OziExplorer (PNG & MAP)*.
3. Select an online Map. The most useful maps are *OpenStreetMap 4UMaps.eu* and *OpenStreetMap Public Transport*.
4. navigate to the area you need by using the mouse-wheel (zooming) and the right mouse button (moving the map).
5. Select the area you need using the left mouse button (push the button and draw a square).
6. Select the *zoom levels* you need (for every zoom level there will be a separated set of files).
7. Create a name for your maps (in the field *Name*:)
8. Add the selection (using button *Add Selection*)
9. Create your maps (using button *Create Atlas*)
10. When in the Window *Atlas creation finished successfully* the status is *FINISHED*, go to the *Atlas* folder by clicking on the button *Open Atlas Folder*. In the most recent folder you will find the result.

11. Copy these files to a place your convenience (not moving, keep the original files as a backup).

Be aware of the maximum image size your Graphic application can handle.

Creating the JPR-file for Memory-Map

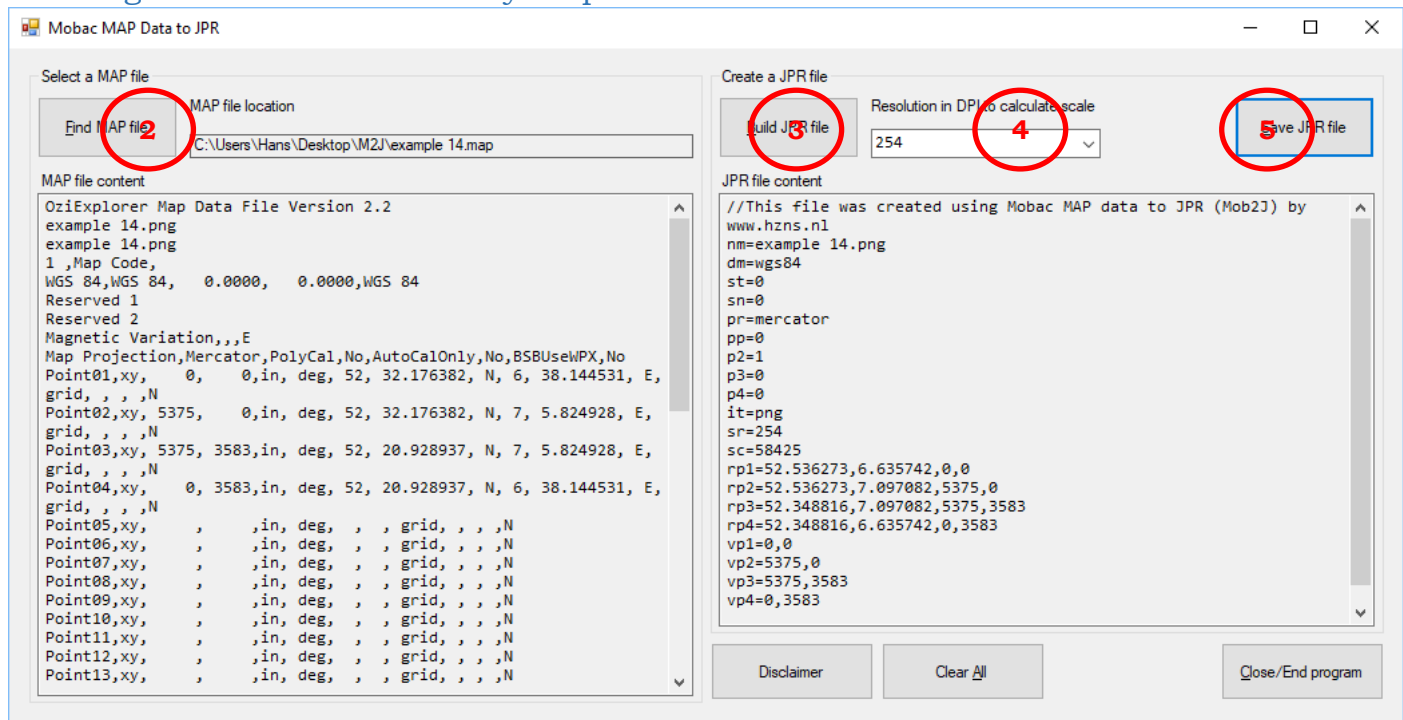


Image 2: Mob2J screen

1. Open Mobac MAP data to JPR (Mob2J)
2. Select the MAP-file. If a MAP-file is selected the content of the MAP-file will be visible (MAP-file content). If the file doesn't contain georeferenced information the procedure stops.
3. Build the JPR-file. The content for the JPR-file will be visible (JPR-file content).
4. You can change the resolution of the map. The consequence of this action is a changing scale. The default setting is 254 DPI, which means 100 dot per cm. Changing this setting will not have any effect on the image file.
5. Save the JPR-file. The file will be saved in the same directory as the MAP-file. If the JPR-file already exists, you will be asked to overwrite.

Manipulating the image-file of your chart

Mobac saves the image of the map in PNG format with a 24 bit color depth. Memory-Map can't handle this color depth. It must be reduced to 8 bit (256 colors). You may use any raster graphics program with this functionality. I have good experiences with the programs XnViewMP® and Paint.Net®. Keep in mind that many programs cannot handle large image files (for example 10,000 x 10,000 pixels) (Paint.Net does).

When converting a color change can occur (for example, a green or a blue cast). This is a consequence of the (mathematical) method used for converting. Some programs can be adjusted (Search under preferences/settings).

Creating your Memory-Map QCT file

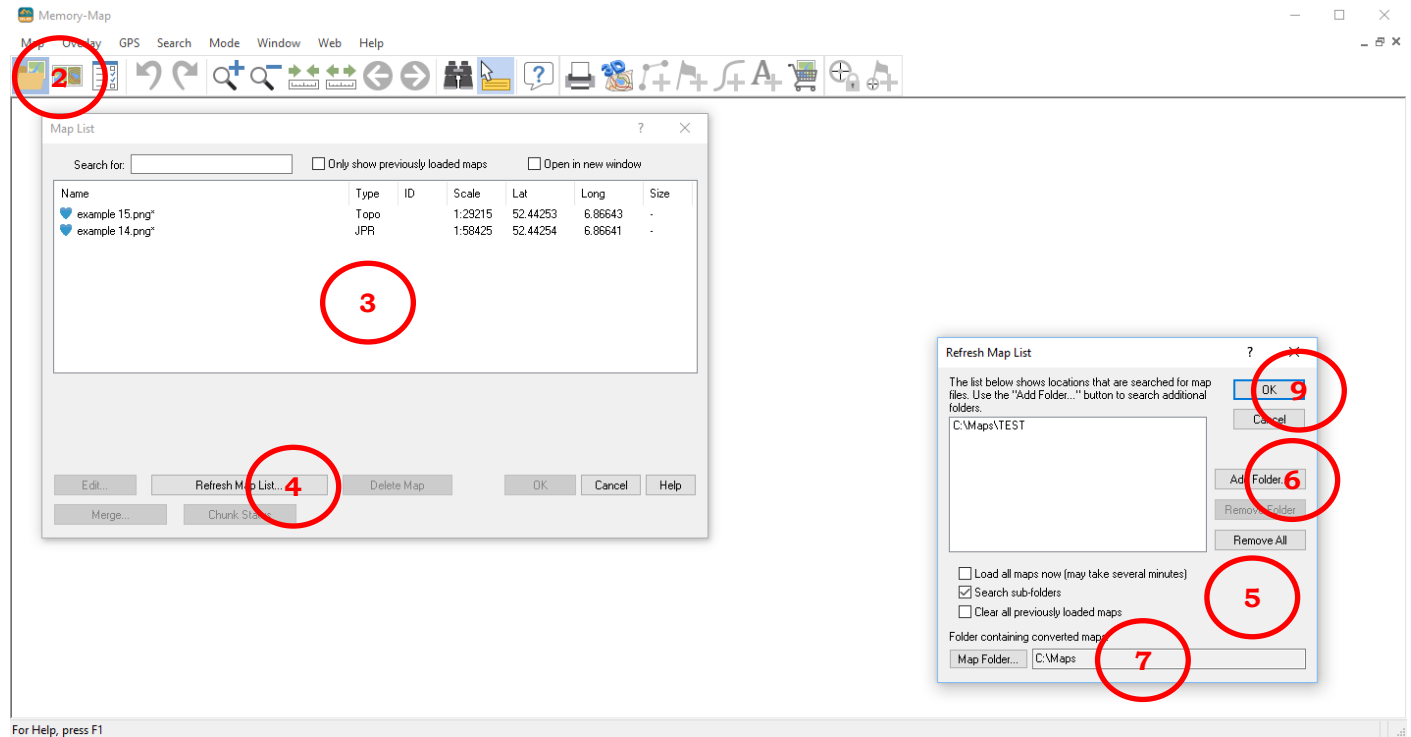
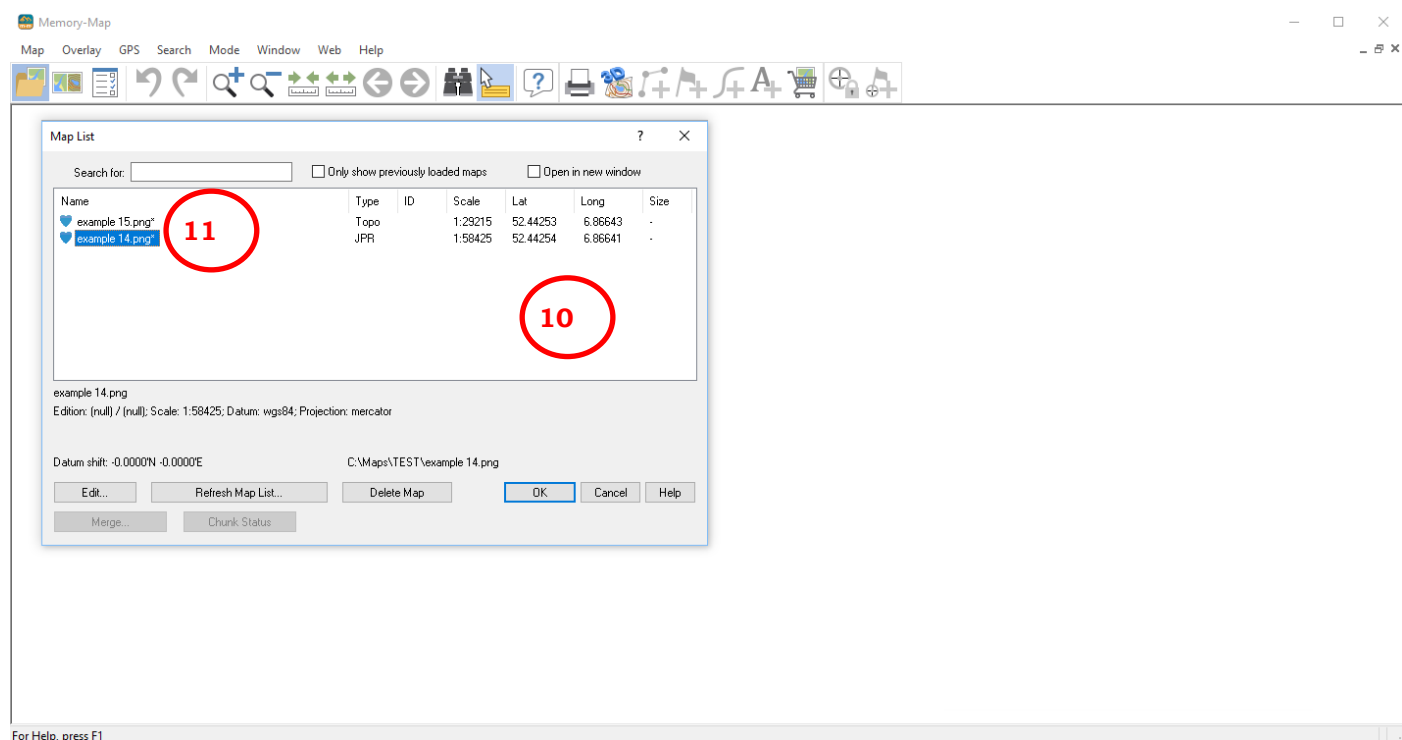


Image 3: Memory-Map 1

1. Open Memory-Map.
2. Open the Map list by using the keyboard combination *CTRL + M* or clicking on the *Map List* icon.
3. The *Map List* window will open.
4. Click on the button *Refresh Map List*
5. The *Refresh Map List* window will open.
6. In the upper textbox must be the name of the folder containing your JPR- and PNG-file. In not, add the folder.
7. At the bottom of the window is a textbox *Folder containing converted maps:*. This is the folder where you will find the QCT-file of the map (this is the converted map)
8. all the folders in both textboxes must exists. Otherwise Memory-Map does not work properly.
9. When everything is ready click on the *OK* button.
10. The *Refresh Map List* window will close and the *Map List Window* will become active again. You will see the name of your new map (with an asterix). May be you must scroll.



For Help, press F1

Image 4: Memory-Map 2

11. Select this map by double clicking on the name.
12. The Map List Window will disappear and the map will be loaded in the main windows of Memory-Map.
13. The last action is testing the calibration of your new map. Pick three or more points on your map read the coordinates and verify them using an independent source (for example GISsurfer). Work with a split screen is most convenience; half Memory-Map and half GISserver.

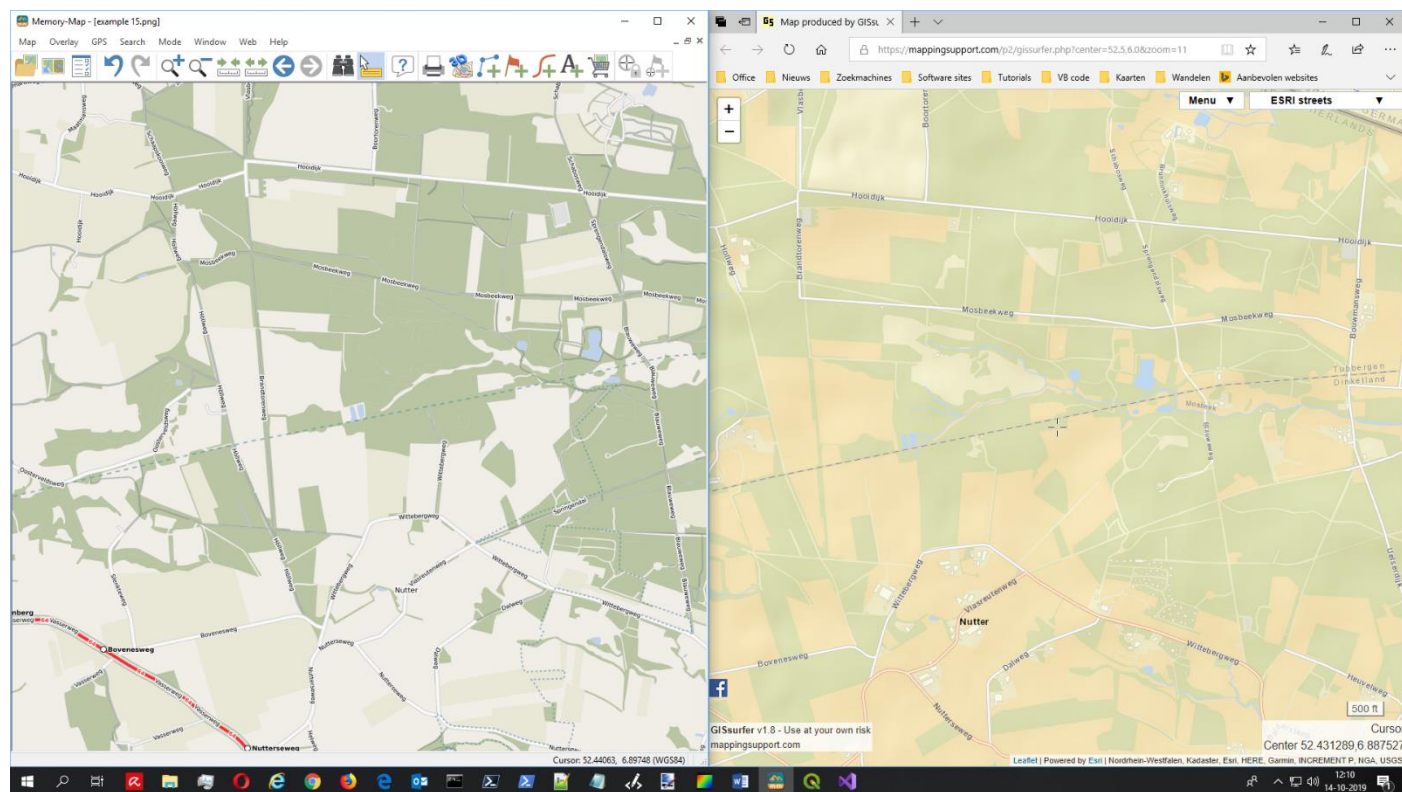


Image 5: Split screen

The other buttons

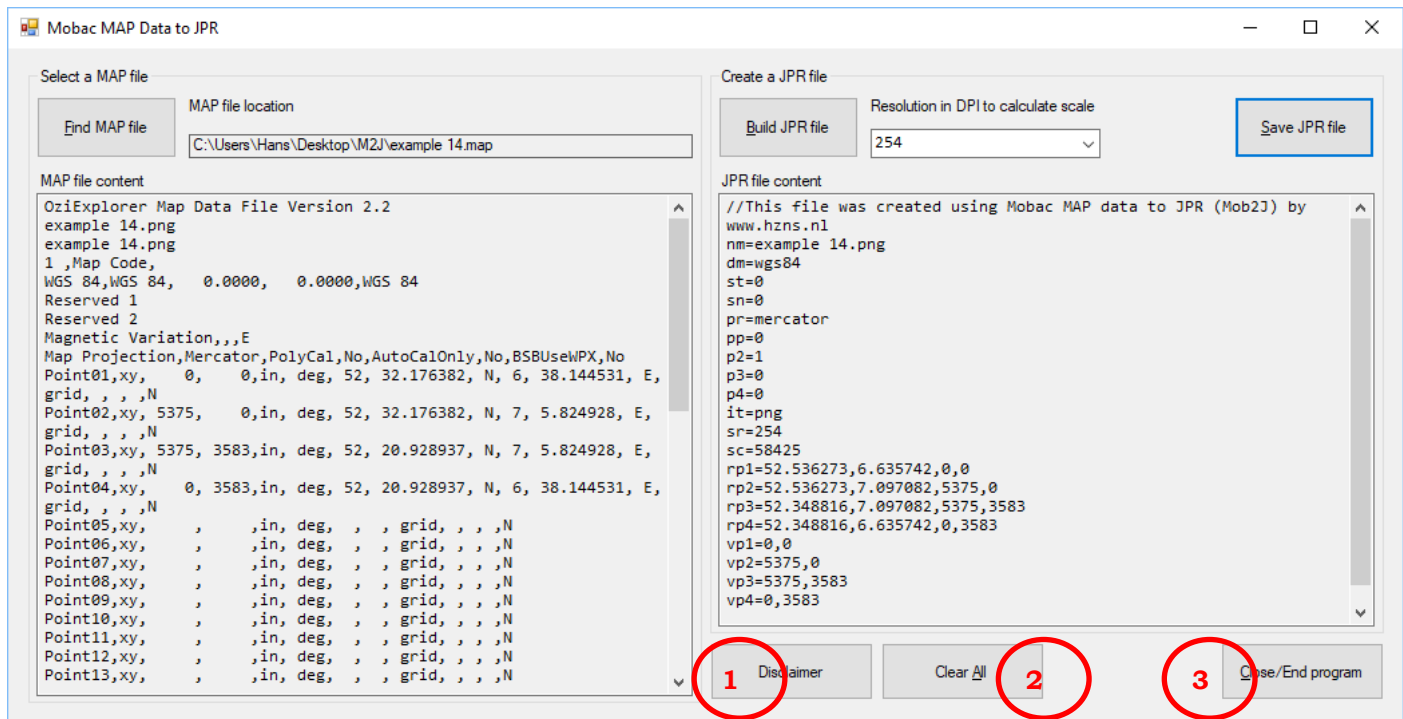


Image 6: The other buttons of Mob2J

In the workflow three buttons were not mentioned. First one is the *Disclaimer* button. Clicking this button shows you the disclaimer for the application. Second the *Clear All* button. With this button all the data in the screen will be cleaned except the (chosen) resolution. Third one is the *Close/End program* button. The application will close using this button. You can use this button any moment in the procedure.

About editing the file names and the JPR-file content.

If you want to edit the file names of your image file, keep in mind you must change the name of your JPR-file too. Except the extension the names of both files must be the same.

You can always edit the content of the JPR-file with a simple text editor (like Windows Notepad). I do not advise you to remove any line. Editing the line `nm=` can be useful. This variable represents the name of the map shown in the *Map List* screen (image 4). A more appealing name with a geographical and/or a scale indication can be useful. Another suggestion is adding a copy write statement. This statement will be shown on prints made by Memory-Map and is, in most cases, a formal and surely a polite obligation. An example: `cr=© OpenStreetMap contributors, CC-BY-SA`.

Keep in mind: The changing of file names and/or editing of content of the JPR-file must be done before step "Creating your Memory-Map QCT file".