

MAKE MY MAP IN GOOGLE: DETAILED

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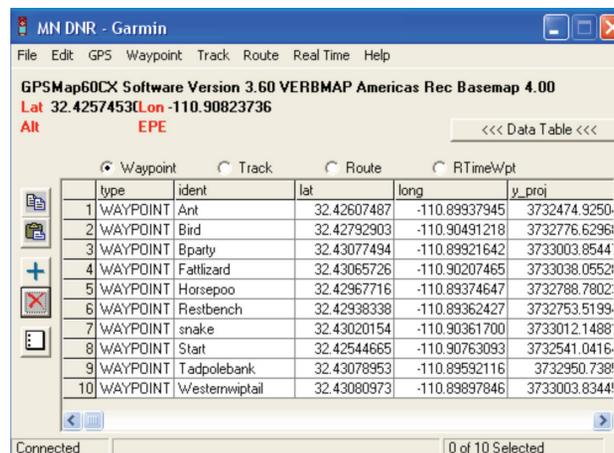
What you need:

- GPS device: A Garmin GPSMap 60Cx or a Garmin Forerunner 305 (with waypoints and tracks)
- Computer
- USB cable
- MN DNR Garmin Application
- Google Earth Application (if using a Garmin Forerunner 305)
- Google email account
- A program equivalent to Microsoft Word, PowerPoint, or OpenOffice



Instructions:

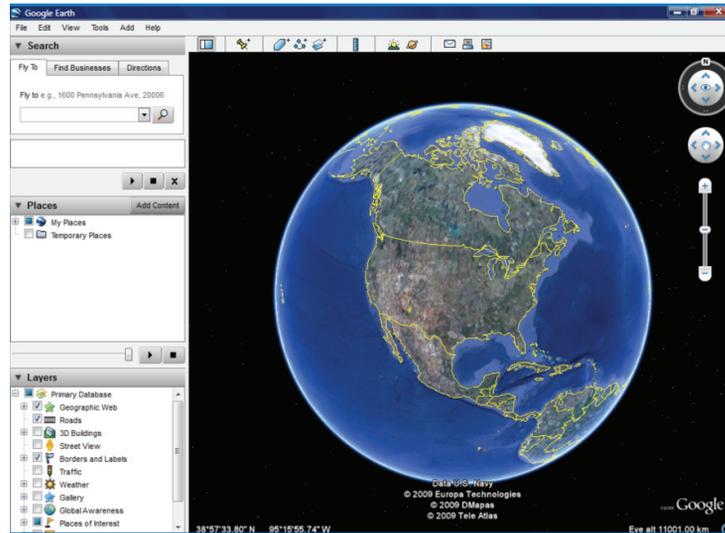
1. Download the "MN DNR Garmin Application" from the internet for free onto your computer. Download the latest version here from the Minnesota Department of Natural Resources: <http://www.dnr.state.mn.us/mis/gis/tools/arcview/extensions/DNRGarmin/DNRGarmin.html>
2. Connect GPS device to computer with a USB cable and turn GPS device on.
3. Open MN DNR Garmin and go to "GPS", then "SET PORT", and select "USB".



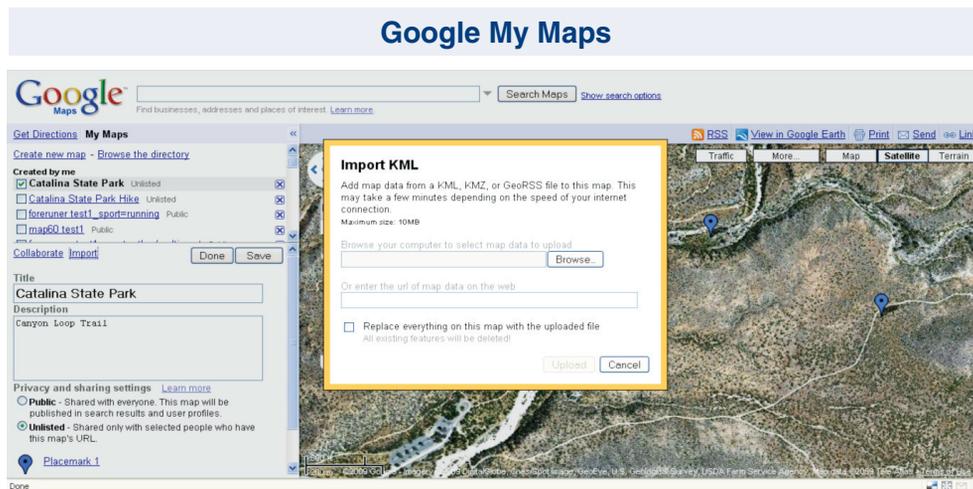
MN DNR Garmin

4. Wait until MN DRN Garmin connects to the GPS receiver. It will display "connected" at the bottom of the MN DNR Garmin application.
5. Go to "WAYPOINT" and select "DOWNLOAD". Click "OK".
6. Go to "FILE", "SAVE TO", "FILE". Save as "KML" format. For example: State Park Hike Waypoints.kml. Click "SAVE".
7. Go to "TRACKS" and select "DOWNLOAD". Click "OK".
8. Save tracks.
 - a. If downloaded from a Forerunner 305, or if editing the length of the tracks: Go to "FILE", "SAVE TO", "FILE". Save as gpx format. For example: State Park Hike Tracks.gpx. Click "SAVE".
 - b. If downloaded from a GPSMap 60, you have the option to do this part or follow the same procedure as if you had downloaded tracks from a Forerunner 305: Go to "FILE", "SAVE TO", "FILE". Save as "KML" format. For example: State Park Hike Tracks.kml. Click "SAVE".
9. A box that reads: "define output shape" should appear. Select "LINE", then "OK", and "OK" again.
10. If you downloaded tracks from a Forerunner 305 or want to edit the length of the tracks, download Google Earth for free from the Internet here: <http://earth.google.com/>. If not, go to step 11.

- a. Open Google Earth, go to “FILE”, then “OPEN”, and select your file. For example: State Park Hike Tracks.gpx. The tracks will appear on the left side menu under “Temporary Places”.
- b. Select your tracks only (you should see one file named as “active log”), right click, and select “SAVE PLACE AS”. Save your tracks as a kml format. For example: State Park Hike Tracks.kml.



11. Create a free Google email account at www.gmail.com or sign into your Google email.
12. Go to “MORE” on the top-drop menu and select “MAPS”.
13. Select “MY MAPS”. If you have a new account Google email account, select to “Get Started.”
14. Select “CREATE A NEW MAP”.
15. Write a title and a description if desired. For example: State Park Hike.
16. Select the privacy and sharing settings: public or unlisted.
17. Select “IMPORT” to import the files you saved as KML format.
18. “BROWSE” and find your waypoints. For example: State Park Hike Waypoints.kml.



19. Click “OPEN” and select “UPLOAD FROM FILE”.
20. Select “IMPORT”, then “BROWSE” and find your tracks. For example: State Park Hike Tracks.kml.
21. Click “OPEN” and select “UPLOAD FROM FILE”.
22. Optional: change the icons of the waypoints. Click on the waypoints, then click on the icon, and select your new icon. You have the option to use an icon from Google Map’s or upload one from the Internet. You can also change the color and width of you track: click on track, then click on track icon, and change the color and/or width of your track.

23. Click "SAVE". Click "DONE". And your map is complete!!!

Screen shot of a Map in Google My Maps



Display your map: you can show it to your friends, family, and colleagues by sharing the link of your map or by allowing them to collaborate on your map. You may change the settings to allow them to only look at your map, comment, rate it, edit it, or invite others to view your map.

Make a Poster: take a picture/screen-shot of your map by clicking "FN" + "PrtSc" (function + print screen) and paste it (ctrl + v) onto a program equivalent to PowerPoint, OpenOffice, or Word Document. Remember that you can crop your picture under "picture tools" to leave only your map visible. Custom your map to any size, add a title, images, and borders to enhance it.

Poster Example



References

1. Garmin: www.garmin.com
2. Google Earth: www.earth.google.com
3. Google Email: www.gmail.com
4. Minnesota Department of Natural Resources (MN DNR) Garmin Application: <http://www.dnr.state.mn.us/mis/gis/tools/arcview/extensions/DNRGarmin/DNRGarmin.html>
5. Orr, B., P. Rasmussen, R. Smith, C. Stephens, J. Payne, G. Searle, M. Hertzfeld, J. Moeller, T. Mau-Crimmins, L. Baker, A. Olsson, J. Schalau, J. Riggs, D. Wright, and J. Tan (2002-2008). The "Geospatial Tool Kit": Fact Sheets for Digital Field Mapping. Online: <http://geospatialextension.org/resources/cool-tools/the-geospatial-toolkit> or <http://www.starpal.com/geospatial-toolkit/the-geospatial-toolkit.htm> (mirror site).



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