

Snowmobile Trail Mapping in Iowa Using Global Positioning System



Instructions Prepared By:

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Magellan Meridian Gold – Initial Setup for DNR Mapping

Clear Memory – this process should be done prior to giving the unit out for trail mapping and following the data download procedures.

MENU – SETUP – CLEAR MEMORY – TRACK HISTORY
MENU – SETUP – CLEAR MEMORY – WPTS/ROUTES

After each choice (track history and wpts/routes) a warning message will appear – choose yes

Track Mode – this only needs to be set once when the unit is first used.

Press NAV button until the map display is shown on the screen
MENU – MAP SETUP – TRACK MODE = 0.01MI – ESC

Baud Rate – this only needs to be set once when the unit is first used.

Press NAV button until the map display is shown on the screen
MENU – SETUP – BAUD RATE = 4800 – ESC

Magellan Meridian Gold GPS – Trail Mapping Procedure

- 1) Turn GPS unit on (PWR) – press enter to get through warning screen
- 2) Press NAV button repeatedly until map view is displayed on screen
- 3) Wait until Hour Glass changes to a black Arrow in the center of the screen
- 4) Press and hold the GOTO button until the “Mark” screen appears
- 5) Using the arrow buttons, highlight the Name field (should read “WPT001”)
- 6) Click ENTER and a keyboard should appear – enter the letters “start1” or “start2”, etc. When finished, move to OK and press enter.
- 7) You should now be back at the “Mark” screen, move to Save and press enter.
- 8) Drive the trail
- 9) If you would like to add waypoints (points of interest), follow steps 4 – 7 but enter a descriptive name like “Restaurant” or “Gas”, etc instead of start.
- 10) At the end of the trail follow steps 4-7 and enter the name “end1”, or “end2”, etc.
- 11) Turn GPS unit off – press PWR once and release

* It is important that the GPS unit be kept off when you are driving to and from the trails. The GPS unit will store your movements at all times and if too much non-trail data is stored, there may not be enough memory to hold it all. You should be able to map several trails before downloading the data.

Magellan Meridian Gold GPS – Data Download Procedure

Go to www.quakemap.com and click on “download free edition”.
Download and run quakemap.exe

- 1) Start Quakemap GPS
- 2) Turn GPS Unit on and connect it to PC (with included cable)
- 3) Under “GPS” menu choose “GPS Manager”
- 4) Set Make to Magellan
- 5) Set Connection to:
 Port: Com1
 Baud: 4800
- 6) Click on “Test/Identify GPS”
 should have a display with some GPS info, the last line should read “GPS Communication Complete”
- 7) Click on Data Up/Download tab
- 8) Click on “Get Track Log”
- 9) Click on “Get Waypoints”
- 10) Close the GPS Manager
- 11) Main Menu – choose File then Export All
- 12) Check “Save Waypoints” and “Save Tracks/Routes” and click on Browse
- 13) Change Type to comma-separated excel (*.csv)
- 14) Enter a name for the file (e.g. Stormlake.csv)
- 15) Click Save
- 16) Close Quakemap

Magellan Meridian Gold- Loading Data onto SD card

1. Turn GPS unit on(PWR)- press enter to get through the warning screen
2. Press MENU
3. Scroll down to Routes- press ENTER
4. Press MENU
5. Scroll down to Card Utilities- press ENTER
6. Scroll down to Save WP/Routes- press ENTER
7. A keyboard should appear- enter the letters example-
"Itaska County"- press OK
8. Press MENU-
9. Scroll down to Save Track- press ENTER
10. A keyboard should appear- enter the letters example-
"Itaska County"- press OK
11. The reason for doing both of these steps separately is
that they are two separate layers on the map and both
must be saved to card.
12. The card should be ready for removal.

Send memory card with required information to:

Molly Oliverson
DNR
502 E. 9th Street
Des Moines, Iowa 50319-0034

Or to

Terry Durby
42792 160th Ave
Leland, IA 50453

Or refer to Data Download Procedures and

Email the _____.csv file to
molly.oliverson@dnr.state.ia.us with any important
comments/notes that will be pertinent to the map.