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Eagle Point Solution to a Frequently Asked Question

How to Bring Points into CAD from the GIS Grade USDA GPS Garmin76

Summary:

Points collected using the USDA GPS backpack units can be brought into CAD but the quality of those points needs to be understood and used appropriately. An appropriate use might be to show the location of an instrument point and to give the approximate orientation of the backsight point on a georeferenced photo or USGS topo map if the points are collected using Differential Correction. Data brought into CAD using this method does not contain any information that reflects the accuracy of the data, such as whether averaging was used, satellite signal quality, or whether any correction signals were utilized.

Product: Eagle Point Software™ 2004

Release: 2004 Q1 or 4.1.0 and greater

Platform: All

Related documents:

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As always, should you have any questions regarding any phase of installation, contact Eagle Point Technical Assistance at (800) 477-0909.

Notation Method

Button to Press *Displayed Text* **Icon** Action {Text to Enter} Menu Item...

Download Waypoints from the Garmin76

On the Garmin76

1. Connect the Garmin76 to the computer using the serial connector.
2. Turn on the Garmin76 and press Page twice.
3. Start simulator mode:
 - Press the Menu key once.
 - With *Simulator Mode* highlighted press Enter.
4. Switch the Interface setting to *Garmin*.
 - Press Menu twice.
 - Use the Rocker to highlight *Setup*.
 - Press Enter.
 - Use the Rocker to select the *Interface* tab.
 - Highlight the *Serial Data Format* field.
 - Press the Enter key.
 - Scroll through the list to Highlight *Garmin*.
 - Press Enter.
 - Press Quit twice.

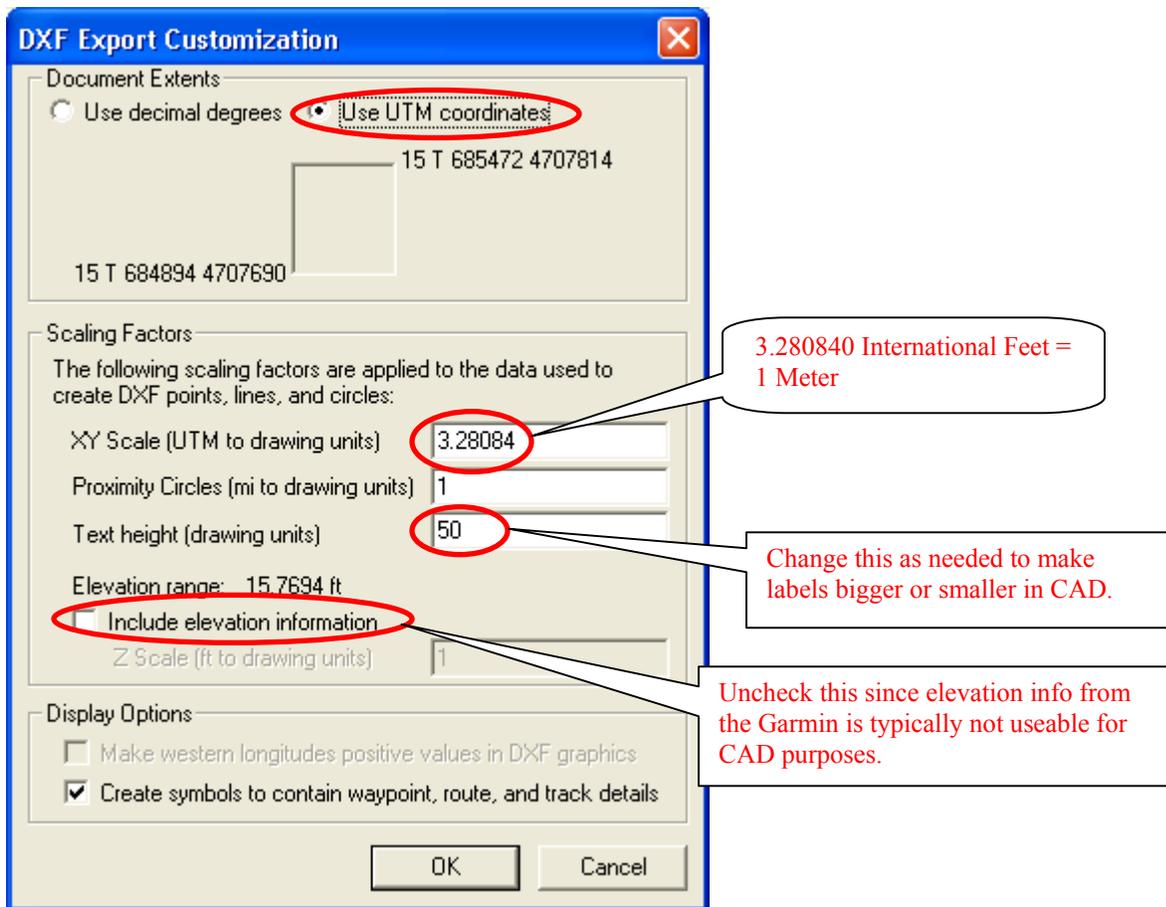
On the Computer

1. Open the MapSource v5.4 software.

2. File... Open from ... Serial GPS...
3. Checkmark Waypoints.
4. Select the correct serial port.
5. Click Open.
6. After computer message states that data was opened, click OK.

Export Points to CAD DXF file

1. Select the **Waypoint** Tab.
2. Remove all unwanted Waypoints by selecting them and pressing Delete.
3. File... Export...
4. Pulldown the Save as type to DXF (*.dxf).
5. Browse to the intend directory.
6. Input a filename.
7. Click Save.
8. Check for these settings:



9. Click OK.
10. Close MapSource.

CAD Software

1. Open the dxf file in CAD. The points will be displayed in UTM International Feet.
2. If you save the dxf file as a regular CAD (.dwg) drawing file, you can Xreference the file into your CAD project. Otherwise

Important: The positions exported from the MapSource software are rounded to the nearest meter no matter what the accuracy of the point is. Even though the precision of the X & Y coordinates might be displayed to the hundredth of a foot, remember that the real location is probably within 5 to 15 feet away.

you can use CAD commands to copy and paste these points into a drawing that uses the layer naming that you need.

Submitted by Norman Friedrich.