



# GIS / MAPPING TECH NOTES

March 26  
2009

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Welcome to MAPPING / GIS Tech Notes - Frontier Precision's monthly e-newsletter!!! MAPPING / GIS Tech Notes is designed to keep you up to date with tips and information on the latest TECHNOLOGY IN MAPPING & GIS PRODUCTS. Our company goal is to help you be more efficient and more profitable by utilizing The most up to date technology.

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## Tech Tip

### Working with MN CORS Corrections in Real-Time

You can receive real-time corrections from the Minnesota DOT CORS network using both the ArcPad and Terra Sync software applications. However, there are a few things you must keep in mind prior to using this free correction system.

- **First, you must evaluate your work area to see if it is covered with a Cellular Phone Manufacturers Data Network. Without cellular data service coverage, the MN CORS system will not be able to provide the corrections to your GPS device. Most manufacturers have a "phone as modem" or "tethering" plan where they can give you a coverage map of the area to make sure your work area is covered.**
- **Second, you must contact a representative at the Minnesota DOT to get a username and password before you can configure your software to work with the MN CORS real-time system. Go to [www.olmweb.dot.state.mn.us](http://www.olmweb.dot.state.mn.us) and click on the MN CORS Network link, you can get contact information on who to call or email to get this information.**
- **Third, when selecting a cellular phone to work with the network, make sure the phone can be used as a modem. Now this is not the same as a straight cellular data plan. You are going to be using the phone as a modem to your handheld, so the phone must be able to tether. There are 2 ways to tether a phone. One is using Bluetooth and the other is via a serial cable (USB does not work). Most phones are difficult to get a Serial cable for, so your obvious choice is Bluetooth. Now with Bluetooth most phones are designed to connect to Bluetooth headsets and not to a GPS handheld. So when shopping for a phone make sure that the Bluetooth is "Dial-up Networking" (DUN) capable.**

With these things in mind you have the tools now to get moving using this new correction source. In most cases, since you are getting a localized correction source, you will see much more reliable and accurate real-time positions. This can be extremely helpful in cases where you are navigating back to coordinates that are in the Minnesota County Coordinate System (NAD83 Datum).

If you have further questions on this real-time network, please contact your local Frontier Precision representative or call our Tech Support hotline at 1-888-797-4774.

**Tech Support Hotline  
888.797.4774**

### Current Firmware Versions

Trimble TerraSync	3.30
Trimble Pathfinder Office	4.10
Trimble GPSCorrect for ArcPad	2.42
Trimble GPS Analyst Extension	2.10
Trimble TSC2 / TCU Survey Controller	12.42
Trimble ACU/TSCe Survey Controller	11.40
Trimble NetRS	1.20
Trimble NetR5	3.60
Trimble HPB450 / PDL450	2.42
Trimble Geomatics Office	1.63
Trimble TerraModel	10.6
GPS Controller SW (2008 GeoExplorer)	2.20
Data Transfer Utility	1.45
Juno SB & SC GPS FW	3.30
Juno ST GPS FW	3.10
GeoExplorer 2008 Series GPS FW	2.03
GeoExplorer 2005 Series GPS FW	1.82
GeoExplorer 2003 Series GPS FW	1.05A

### Upcoming Events

**April 2009**

**MSPS Spring Workshop: GIS as an Effective Tool to Manage Survey Data**

**April 17, 2009 in Minneapolis, MN**

**[click here for details](#)**

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