

Technical Support Document On Adding A New Reference Station For Post Processing In Pathfinder Office Software

After opening Pathfinder Office or GPS Analyst and the project that you wish to post process off of:

-Click Utilities / Differential Correction. Or Start GPS Editing and Differential Correction in ArcGIS

-Highlight the file you are Differentially Correcting or tap the plus (+) sign to add the file in and Click Next.

-Depending on what receiver collected the ssf file you can select Automatic Standard Carrier and Code Processing. This is what PFO defaults to if you have a Geo XT / Pro XT. A Pro XH or Geo XH can use the H-Star Processing for better accuracy. Than Click Next.

-Click Next Through The Setting Screen.

-Click Base Provider Search and Tap Select on the right. Than Tap New at the bottom of the screen. Type in the name of the new Base Station "MN DOT" for example. Don't worry about the other information, street address etc.

-Tap the Base Station Tab. Skip the receiver info and key in the Reference Position found at the MNCOR Website. <http://www.olmweb.dot.state.mn.us/CORS.GPS/StationData.pdf>

Example:

Saint Cloud, MN

Lat: 45-33-51.22881 N

Long: 94-10-48,15944 W

HAE(m): 296.014

-Tap the Internet Server Tab and enter the Base File Address Format. An Example for St. Cloud is below. You may need to switch the 30-sec-24hr if the station you wish to use logs at a different rate. You would also want to change the RefData.07 to RefData.08. The last thing you need to edit from the below address is the station you wish to use. So change the StCl to whatever base you wish to add. Example StCL to ApVy. Then Click Apply and OK.

Example:

<ftp://ftp.olmweb.dot.state.mn.us/CORS.GPS/30-sec-24hr/RefData.07/Month.%Mmm%/Day.%DD%/StCl%DDDDD%0.%yy%o.zip>

-Highlight your new MN DOT Provider on the list and Click OK

-Click Next

-Leave these settings at defaults and Click Start.

If you have any question on this please contact Kory Thurnau (Technical Support Specialist) at 888.797.4774. Kory did confirm with Dave Zenk the ITRF (International Terrestrial Reference Frame) shift/ adjustment is shifted NW about 3.41 feet. This was comparing the LeSeur Station. He emphasized the importance of using the MNCORS, as the new adjustment for HARN is near implementation. For the most part the knew adjustment is minor with shifts around 2-3 cm with exception of a few stations on the North Shore of Lake Superior. In the case of our Dakota friends they will need to either perform an adjustment/ localization or use their own values for the base station. <http://www.ngs.noaa.gov/itrf1fcr.shtml>

