



Application Note

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Author: Jon Draffan

Product: Magellan MMCE/CX GPS Receivers

Subject: Techniques for Achieving Optimum Accuracy in a GIS Data Collection

- 1. After powering unit up and *before* collecting any data, allow 10-15 minutes of open Sky time so as to achieve a complete GPS message.**
-With the Mobile Mappers good signal reception can be judged by looking at the GPS Status screen (Start / Programs / GPS Utilities) and waiting for a "Blue Dot Solution" (i.e. When using SBAS the red dot in the lower right hand corner of the screen has turned green, then blue). This should be done before opening any collection programs.

When you have a Blue Dot Solution open a program to begin collection.

- 2. When collecting a feature, stand in place where you want to collect for 5 seconds *before* initiating collection. This applies to a Point feature as well as a Line or Area feature.**
- 3. Collect GPS information for at least 10 seconds (much more than that is NOT truly necessary) before accepting position.**
- 4. After accepting the GPS data continue to stand in place before moving on to the next feature. This applies to a Point feature as well as a Line or Area feature.**
-Try to avoid shutting down the GPS unit in between features. If a temporary shut down is necessary (e.g. lunch break) then start from step 1. before continuing the collection session.

Giving the Satellite signal a little extra time to catch up to your position (the radio waves are traveling 12000 miles!) as you move from place to place will yield the best possible accuracy in your field work.