

## GPS Tips & Tricks – A User Guide for Optimal GPS Accuracy

It is difficult to imagine living in a world without GPS. We depend on it for personal and vehicle navigation, construction grading and excavation, natural disaster recovery, and GIS mapping among many other uses, all of which significantly impacts the world around us.

Although GPS has its advantages, obstacles in accuracy and reliability often occur. This guide will identify the most common problems with GPS and explain why they occur, pinpoint solutions to resolve them, and ultimately help you achieve optimal accuracy and results from your GPS receiver.

### **Problem #1: Obstructions**

Because the GPS signal coming from the satellites is very faint, there are several objects that can obstruct the direct line of GPS signals from reaching the GPS receiver, whether they are overhead or adjacent obstructions. These objects include mountains or other terrain, tree canopy, buildings, and your body.

#### Solutions

- Step away from the obstructed area until you're in more of a clearing.
- Hold the handheld computer and GPS receiver in a position such that the GPS antenna is facing away from all obstructions.
- Use the manual point collection feature (instead of the timed interval collection feature) while mapping lines and polygons next to buildings or under tree canopy. This allows you to collect a point away from the obstruction and then connect it to a point taken

at the end of the line (these points may need to be adjusted).

- Watch your PDOP (position dilution of precision) settings. PDOP is an indirect measure of the accuracy of your position, so lower numbers are better, preferably less than three. Start out with a threshold setting of five and adjust up or down depending on conditions. Remember that a high threshold setting will make it easier to get a signal, but your accuracy will worsen, and vice versa. You may also try rotating your body to improve your PDOP.
- Set the point averaging setting to collect more points. While you may gather accurate data when collecting an average of two or three points in a clear and unobstructed area, it is recommended that you collect an average of 10-20 points in obstructed areas. Keep in mind that it takes at least one second to collect each point, so if you are averaging 20 points, it will take a minimum of 20 seconds or even longer if your PDOP is high and conditions are poor.

### **Problem #2: Multipath or Signal Reflection**

Multipath errors or signal reflection occur when the GPS signal reflects off of buildings or other objects, resulting in multiple delayed signals. Since the GPS system works off of time, anything that causes delays can result in errors in position. The GPS receiver picks up the direct GPS signal and detects the reflected signals, therefore disrupting the accurate data already collected by the handheld. If you are near a building and your GPS is showing 12 of 12 satellites are visible, yet your GPS position is bouncing around on the screen, it is very

# Gps User Guide

**Jessica J Manson**



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