

Tech Note: Accuracy improvement from holding the MobileMapper Pro vertically

A test was conducted to illustrate the improvement in accuracy from holding the MobileMapper Pro receiver vertical to the ground and at eye level instead of horizontal to the ground and at waist level. The MobileMapper Pro receiver mapped a section of curb approximately 65 meters in length.

The curb was first mapped while the receiver was held horizontally. The horizontal position of the MobileMapper Pro meant that its internal antenna, which functions best when vertical, was not allowed to efficiently track satellites. The curb was recorded as an area feature to highlight how much the map of the straight curb deviated from the linear. The real-time deviation is as great as one meter along the 65-meter length of the curb.

The curb was then mapped with the MobileMapper Pro held vertically and at eye level. It was mapped as a line feature to differentiate it from the first map. Holding the receiver vertically and at eye level improves the results significantly in both a relative sense (the curb is straighter) and in terms of absolute accuracy (the line is positioned within one meter of control).

