Introduction to GNSS Antenna Set-up Methods for Campaigns

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When collecting geodetic data, the GPS antenna is set up over the particular point of interest. For high accuracy crustal applications, the actual survey mark is precisely defined, typically as a benchmark dimple about 1 mm in diameter in a steel pin inserted into stable ground. The monument itself is assumed to be stable relative to the solid Earth below. To avoid set-up error, it is critical that the GPS antenna is placed directly over the survey mark. The antenna must be level, and the antenna height must be properly documented. Proper antenna set-up over the mark is one of the single most critical components of a campaign survey, determining measurement accuracy and repeatability.

Antenna height is usually measured as either:

- 1. **Vertical** the vertical distance from the survey mark to the Antenna Reference Point, or ARP, which is typically the bottom surface of the antenna housing.
- 2. **Slant** the distance from the survey mark to the edge of the antenna chokering or groundplane notch.



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