

GPS antenna monuments and mounts supported by UNAVCO: Options and Effectiveness (poster for Fall AGU, 2008)

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Abstract

Many different monumentation types and antenna mounts have been used in UNAVCO-supported projects for campaign, semi-permanent and long-term continuous GPS sites. We summarize nine monuments and mounts currently in popular use in UNAVCO-supported projects as options to the greater scientific community. The designs range in height from 0 to 3 meters; substrates into which they are installed include soil, bedrock, and concrete; and costs range from approximately \$30 to \$15000. In many places outside the US, logistical, economical, and material restraints make installation of deep- and shallow-drilled braced monuments at best difficult and at worst impossible. Simpler single-mast or concrete monuments offer less expensive, more portable installation options.

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Monuments

- Deep drilled braced**
- Concrete pillar**
- Polar mast**
- Shallow drilled braced**
- Shallow foundation mast**
- 5/8" all-thread**
- Shallow braced (non-drilled)**
- Stainless steel mast**
- Tech 2000 (for campaign use)**

Antenna Mounts

- SIIGN mount**
- SECO 2072-series stainless steel adapter**
- Cup and brass adapter**

Custom monumentation and mounts

Things to consider

Requesting support from UNAVCO

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