GPS antenna monuments and mounts supported by UNAVCO: Options and Effectiveness

Deep drilled braced
- 4 to 6 inches diameter auger is driven into ground, creating a stable base for the monument.
- Concrete is poured into the augur and allowed to cure.
- Monuments are typically used in areas with low seismic activity.

Concrete pillar
- Concrete pillar is cast in a mold and allowed to cure.
- Pillars are durable and can support heavy loads.
- Monuments are typically used in areas with low seismic activity.

Poor mast
- Mast is made of steel or aluminum and is mounted on a concrete base.
- Masts are durable and can support heavy loads.
- Monuments are typically used in areas with low seismic activity.

Monuments and antenna mounts

Antenna mounts
- SCiGN mount
  - Made of stainless steel and aluminum.
  - Designed for high wind and seismic conditions.
- SECC 2072 series stainless steel adapter
  - Made of stainless steel and aluminum.
  - Designed for high wind and seismic conditions.
- Cup and brass adapter
  - Made of brass and aluminum.
  - Designed for low wind and seismic conditions.

Selection considerations
- Cost: SCiGN mount and SECC 2072 series stainless steel adapter are more expensive than the cup and brass adapter.
- Durability: SCiGN mount and SECC 2072 series stainless steel adapter are more durable than the cup and brass adapter.
- Installation: SCiGN mount and SECC 2072 series stainless steel adapter require more installation time than the cup and brass adapter.

Things to consider
- When choosing a monument and mount, consider the cost, durability, and ease of installation.
- Fund availability may also be a factor in the decision-making process.

Requesting support from UNAVCO
- UNAVCO provides support for antenna installation and monument design.
- To request support, contact support@unavco.org.