

# UNAVCO Resources: Permanent GPS/GNSS Stations

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## UNAVCO Resources: Permanent GPS/GNSS Stations

The UNAVCO Facility acts as an information clearing house for the broader UNAVCO community with respect to permanent station installation, equipment, maintenance, and support issues. UNAVCO provides field engineer, budget, equipment purchase, design and development, infrastructure (communications and power), data retrieval, and archiving support. We install and operate GPS networks around the world in support of NSF and NASA initiatives, including direct support to stations that are a part of the International GPS Service for Geodynamics (IGS) network.

### Working with UNAVCO



### [Overview of Support Provided by UNAVCO](#)

Brief overview of UNAVCO support capabilities for project preparation and execution.



### [Support Request Form](#)

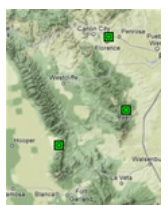
Use this online interface to request project support from UNAVCO.

## Planning a Permanent Station Installation



### [Permanent GPS/GNSS Station Planning: Technology, Equipment, Costs](#)

Primer on equipment, costs, and data management for permanent GPS/GNSS stations.



### [Reconnaissance Guidelines and Security Considerations](#)

More detailed suggestions for site placement than given in the primer above.



### [Sample Budget](#)

Example of various costs related to a general NSF-funded permanent station installation.

## Station Documentation

The image shows a PDF form titled "MONUMENT RECORD". It is a detailed form for recording information about survey monuments. The form is divided into several sections with labels and input fields. The sections include: "GENERAL INFORMATION", "MARKER INFORMATION", "MARKER MATERIALS", "MARKER LOCATION", "MARKER CONDITION", "MARKER HISTORY", "MARKER PHOTOGRAPH", and "MARKER NOTES". The form is designed to be filled out by a surveyor or someone responsible for the monument.

### [UNAVCO Monument Record Form \(.pdf\)](#)

Document new or poorly documented survey monuments (information about the marker only).

The image shows a PDF form titled "UNAVCO New Permanent Station Minimum Information Form". It is a form for providing minimum information about a new permanent station. The form is divided into several sections with labels and input fields. The sections include: "GENERAL INFORMATION", "STATION INFORMATION", "STATION MATERIALS", "STATION LOCATION", "STATION CONDITION", "STATION HISTORY", "STATION PHOTOGRAPH", and "STATION NOTES". The form is designed to be filled out by a surveyor or someone responsible for the station.

### [UNAVCO New Permanent Station Minimum Information Form](#)

Submit the information needed to UNAVCO to begin data archiving.

The image shows a PDF form titled "UNAVCO Continuous Site Installation Report Template (2010, .doc)". It is a template for a continuous site installation report. The form is divided into several sections with labels and input fields. The sections include: "GENERAL INFORMATION", "SITE INFORMATION", "SITE MATERIALS", "SITE LOCATION", "SITE CONDITION", "SITE HISTORY", "SITE PHOTOGRAPH", and "SITE NOTES". The form is designed to be filled out by a surveyor or someone responsible for the site.

### [UNAVCO Continuous Site Installation Report Template \(2010, .doc\)](#)

Document a permanent station installation including marker information, equipment, communications, etc.

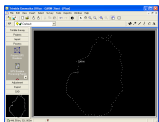
## Equipment



### [GNSS Equipment List with Vendor Information](#)

A list of equipment available on loan through UNAVCO and vendor information for scientists looking to buy their own components.

## Data Processing



### [UNAVCO Resources: Data Processing Software](#)

Different processing software is appropriate for different survey types. Outlines several data processing options.

Online URL: <https://kb.unavco.org/article/unavco-resources-permanent-gps-gnss-stations-634.html>