The GAGE Facility GNSS Data Center, operated by UNAVCO Geodetic Data Services (DDS), manages a complex set of data, metadata and data flow services from sensor to users, providing a wide range of geodetic/geophysical observations to the scientific and educational communities. This includes data operations (managing metadata, data downloading, ingestion, and preprocessing); data products and services (generating processed results, and UNAVCO data services); and associated cyberinfrastructure.

Product levels distinguish between raw data (Level 0), pre-processed GNSS observation data (Level 1, e.g., RINEX files), and post-processed derived solutions (e.g., position solution time series, velocity solutions, tropospheric parameters). UNAVCO data are acquired from thousands of continuously operating sites from the Network of the Americas (NOTA), operated by UNAVCO, as well as PI networks and episodic "campaign" surveys conducted by the community. NOTA data are provided by 3,000+ stations from ~230 participating NSF-funded networks including the Plate Boundary Observatory (PBO), Caribbean COCONet network, and Mexican TLALOC network. UNAVCO provides data services for another 1,600+ contributed continuously operating sites from PI and related GNSS networks from around the globe.

UNAVCO also provides a number of tools and services for discovering and accessing these GNSS data and metadata. A primary priority for UNAVCO is to provide data and metadata that are discoverable, accessable, and reusable (FAIR) both within the GAGE community and by the wider global geodetic/geophysical science community. UNAVCO is a signatory to the Findable Accessible Interoperable and Reusable (FAIR) initiative. We support the GAGE community's commitment to proper data use ethics and we facilitate the broader use of data Digital Object Identifiers and access through Google and EarthCube. The UNAVCO community was at the forefront of the discussion on the ethical use of data in the publication "Pritchard, M., S. Owen, S. Anandakrishnan, W. Holt, R. Bennett, P. LaFemina, R. Janina, J. Mailleger, C. Raymond, S. Schwartz, S. Stahle, and M. Miller, 2012. Open access to geophysical data sets: A community viewpoint. J. Geophys. Res. - Earth Surf., 117, F02036. doi: https://doi.org/10.1029/2012JF002605."

UNAVCO is a regular member of the World Data System (WDS) and we share our objectives (to 1) enable universal and discoverable access to quality-assured scientific, data services, products and information (all community data are openly available unless granted an explicit exemption from NSF), 2) ensure long term data stewardship, and 3) foster compliance to agreed-upon data standards and conventions.

This presentation includes an overview of the data, operations and community resources available from the GAGE Facility GNSS Data Center.

**Abstract**

The GAGE Facility GNSS Data Center, operated by UNAVCO Geodetic Data Services (DDS), manages a complex set of data, metadata and data flow services from sensor to users, providing a wide range of geodetic/geophysical observations to the scientific and educational communities. This includes data operations (managing metadata, data downloading, ingestion, and preprocessing); data products and services (generating processed results, and UNAVCO data services); and associated cyberinfrastructure.

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