

Geospatial Observations, Community Signals, and **TRUSTED DATA**



Texas-Based Initiative

Texas-based geospatial sensor initiative



Open & Verifiable Data

Open, verifiable environmental data



Community-Deployed

Community-deployed GNSS & sensor networks



Public & Agency Use

Built for agencies, researchers, and the public

About GEOCAST

GEOCAST is a Texas-based initiative focused on building and supporting geospatial sensor networks that provide real-time, ground-truth environmental data. The project emphasizes transparency, redundancy, and public accessibility, ensuring observations can be trusted, verified, and preserved over time.

Purpose of GEOCAST

Despite advances in satellite and remote sensing technologies, many communities still lack reliable localized geospatial data. Existing datasets are often sparse, delayed, proprietary, or inaccessible to the public. GEOCAST was created to address this gap by enabling community-deployed observations that complement large-scale systems with timely, verifiable, ground-level measurements.

What differentiates GEOCAST

GEOCAST is designed around long-term continuity rather than short-term studies. Sensor nodes prioritize clear provenance, redundancy, and documentation, with careful separation between raw observations, derived data products, and interpretation. This approach supports independent verification and responsible reuse across multiple disciplines.

Intended Users

GEOCAST infrastructure is intended to support public agencies, researchers, first responders, educators, and community organizations seeking reliable situational awareness and historical context. Common use cases include environmental monitoring, infrastructure planning, emergency response, education, and longitudinal research.

Data philosophy

GEOCAST operates with an open-by-default philosophy, prioritizing verifiable data, transparent documentation, and responsible stewardship. Data is treated as a public resource and preserved in formats intended to remain accessible over time.



ContactUs@GEOCAST.us
www.GEOCAST.us

Public Overview Document
Version 1.0 (2025)
Texas-based initiative