

Network of the Americas, California Region, Current Status and Plans

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May 15, 2025



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SAGE



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Outline

- EarthScope's award cycle and funding status
- Network of the Americas - status and priorities
- EarthScope Data products and real time services updates



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EarthScope Status



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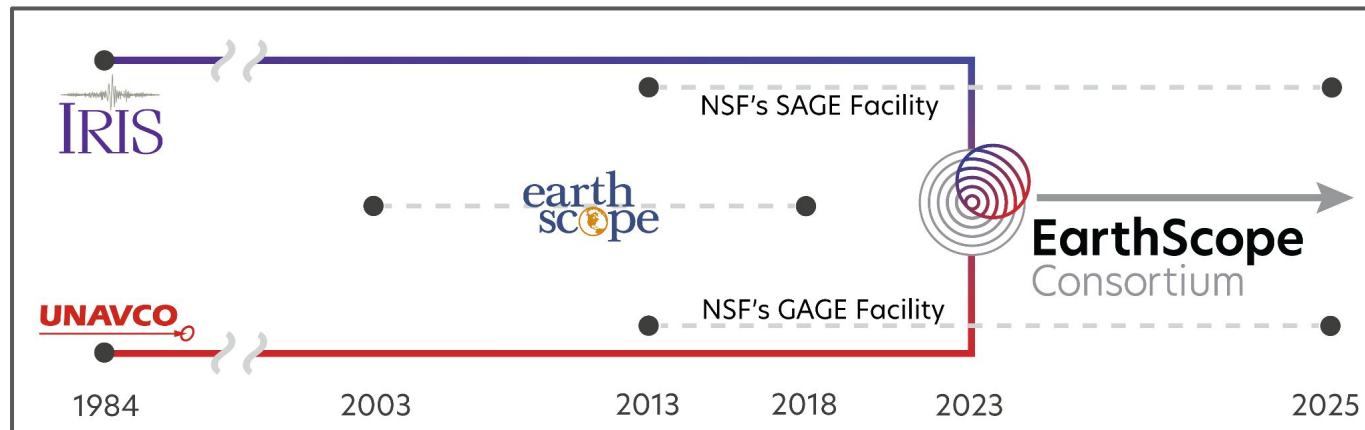


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Current NSF GAGE/SAGE awards end on Sept 30 2025

Recompetition for National Geophysical Facility (NGF)

Waiting to hear from NSF on award for the NGF

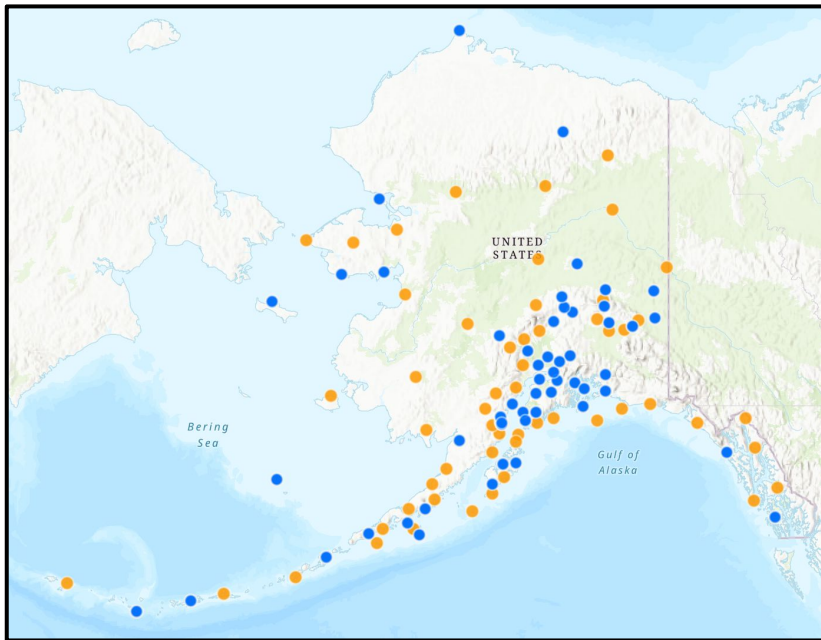


Network of the Americas - GNSS Component



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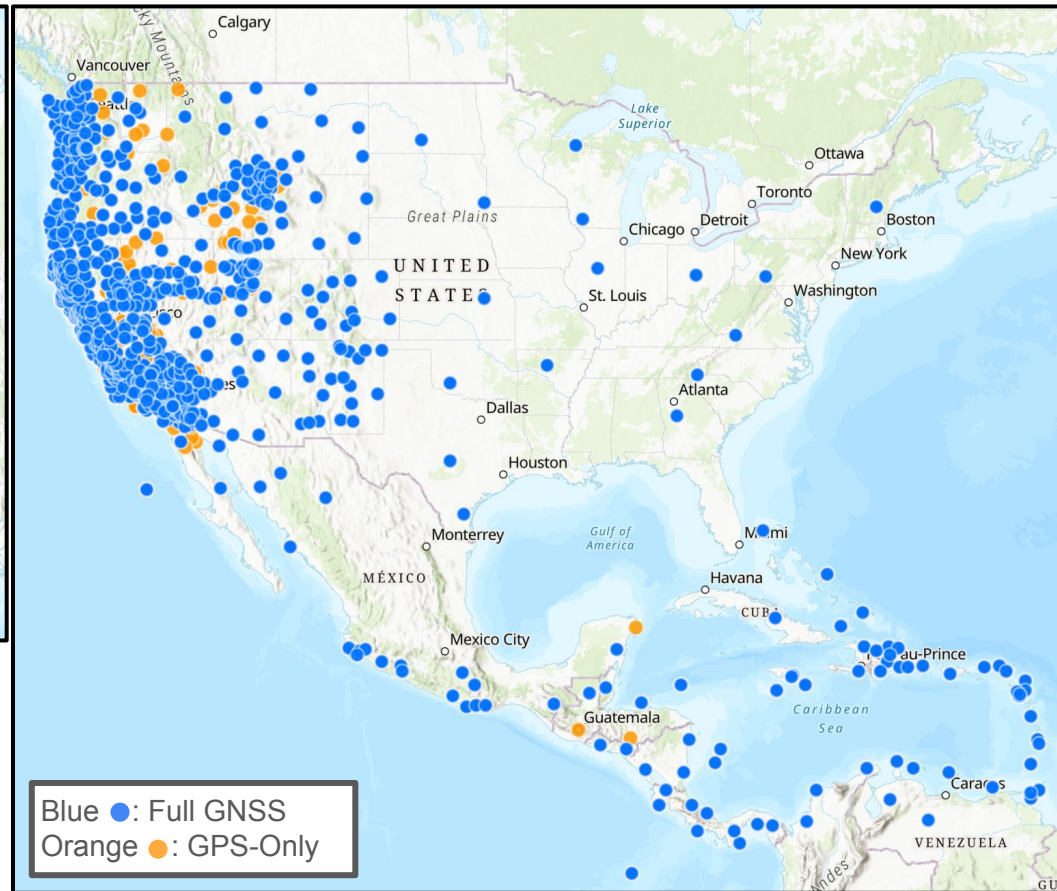
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STATIONS: 1,136

FULL GNSS: 915 (81%)

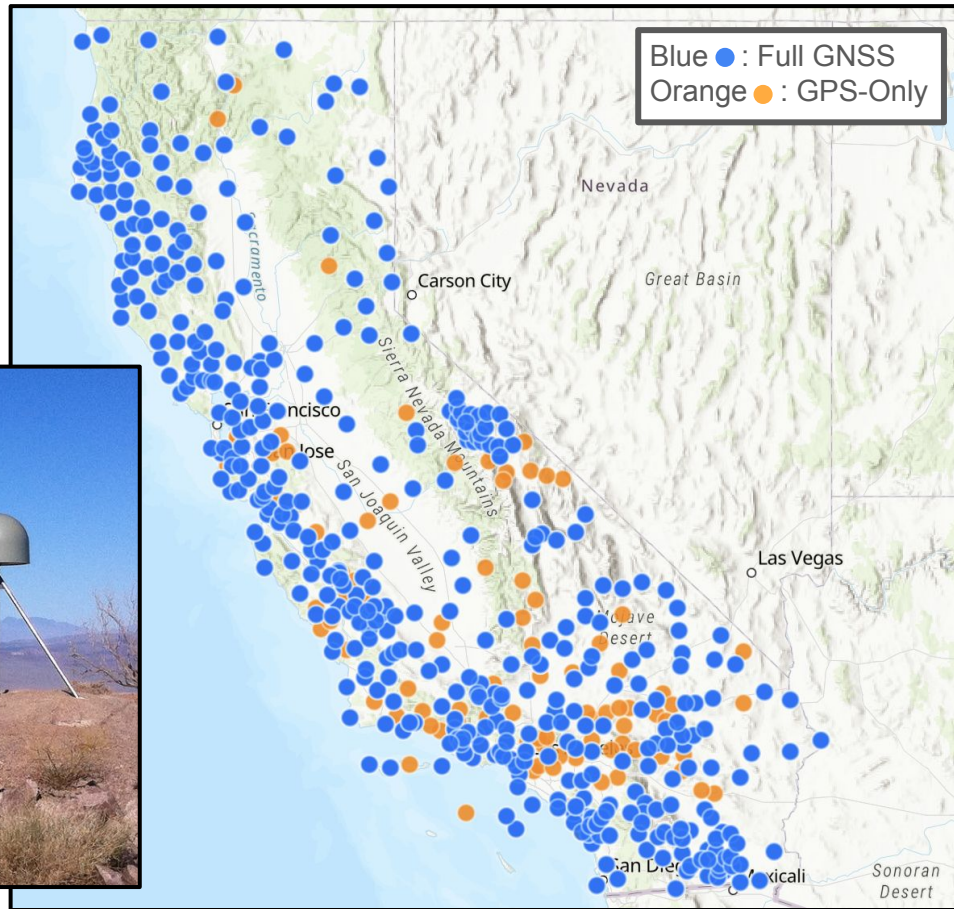
REALTIME: 955 (84%)



NOTA CA GNSS Stations



STATIONS: 534
FULL GNSS: 426 (80%)
GPS-Only: 108 (20%)
REAL TIME: 517 (97%)



NOTA CA Support Staff

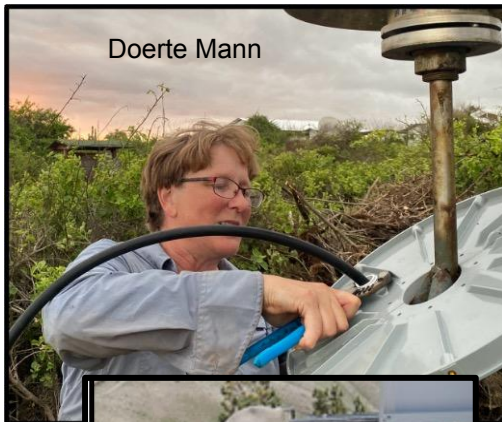


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Doerte Mann



Shawn
Lawrence



Brett Baker



Matt
Burgess



Brendan
Hodge



Adam
Woolace



Daniel
Diaz

2025 NOTA CA Priorities

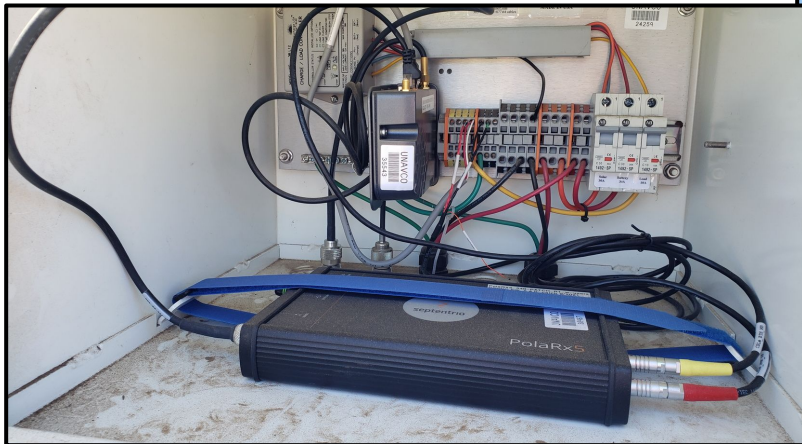


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1. Bring long offline stations back online (rebuild burned/vandalized stations, wrap up helicopter work, upgrade outdated telemetry systems)
2. Upgrade DC power systems (84 stations in CA with batteries over 10 years old,)
3. Upgrade receiver/antenna infrastructure from GPS-only to full-GNSS (108 GPS-only stations remaining in CA)



Data File Server



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HOSTNAME: <https://data.earthscope.org/archive>

(gage-data.earthscope.org and data.unavco.org will still map)

FOR REGISTRATION: data-help@earthscope.org

EarthScope Data Server

Help | Data Home

root / archive / gnss

☒ Show subdirectories

Matching files

Copy directory listing

Name	Last Modified	Size
L1		0 Bytes
binex		0 Bytes
highrate		0 Bytes
hourly		0 Bytes
logs		0 Bytes
multthr		0 Bytes
pickup		0 Bytes
products		0 Bytes
raw		0 Bytes
rinex		0 Bytes
rinex3		0 Bytes

LEVEL	PRODUCT	FREQUENCY	FORMAT	CREATOR
1	Standard Rate (15s)	Daily	RINEX	EarthScope
	High Rate (1, 2, 5 Hz)	Varies	RINEX	EarthScope
	Campaign	Daily, Varies	RINEX	EarthScope
2	Position Solution Time Series	Daily	ASCII, CSV	MIT
	Velocities	Monthly	ASCII	MIT
	Position Offsets	Varies	ASCII	MIT
	Events	Varies	ASCII	MIT
	Tropospheric Parameters	Daily	ASCII	CWU
	Position Solution QA Parameters	Daily, Varies	ASCII	UNR
	Position Solutions (loose)	Daily	SINEX	CWU
	Position Solutions (constrained)	Daily	SINEX	MIT

DATA SEARCH TOOLS:

<https://www.unavco.org/notebooks/observable/>

Command line data tools require new hostname to be used

“Original” Caster



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HOSTNAME:

rtgpsout.earthscope.org

FORMATS:

RTCM 3.1 - GPS, GLONASS

BINEX - Full GNSS for *most* NOTA sites

PPP - GPS, GLO

Stopped creating accounts on **April 29, 2025**.

Will be fully retired on **July 29, 2025**.

“New” Caster



HOSTNAME:

ntrip.earthscope.org

FORMATS:

Port 2101 - Raw RTCM 3.3 (MSM7)

Port 2105 - Raw BINEX

Port 2108 - Onboard PPP (GGK or GSOF formats) (~155 sites)

1 Hz sampling, IGS08, full GNSS for all streams

Real Time dashboards and metrics currently under development

Accounts for the original RTCM 3.1 caster do not work for the new caster, you must re-register and accept either a commercial or non-commercial license for use of these new streams.

Commercialization



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Non-Commercial License: scientific, educational, or humanitarian use

- Unlimited streams at no cost

Commercial License: Resale of streams, correction delivery, or derived products

- \$1000/stream/year

All users must sign license agreements

More Info. and Contacts



FOR MORE INFORMATION: <https://www.earthscope.org/data/gnss-realtime/>

FOR QUESTIONS AND CASTER ACCESS: data-help@earthscope.org

rtgps@earthscope.org is no longer in service.

To report station outages: geodetic-instrumentation-help@earthscope.org or sarah.doelger@earthscope.org

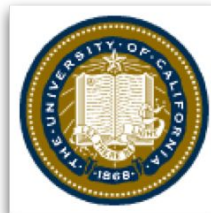
Thank You!



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Questions?



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