

Current Status of the EUREF Permanent Network and Progress on EUREF Resolutions

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Royal Observatory of Belgium



EPN Central Bureau
<https://epncb.oma.be/>

Outline

- Introduction
- Status of EPN tracking network
- Follow-up on EUREF resolutions
- News
- Summary

Introduction

Created 30 years ago...

The **EUREF Permanent GNSS Network (EPN)** is a network of continuously operating GNSS reference stations across Europe, maintained by voluntary organizations

Purpose

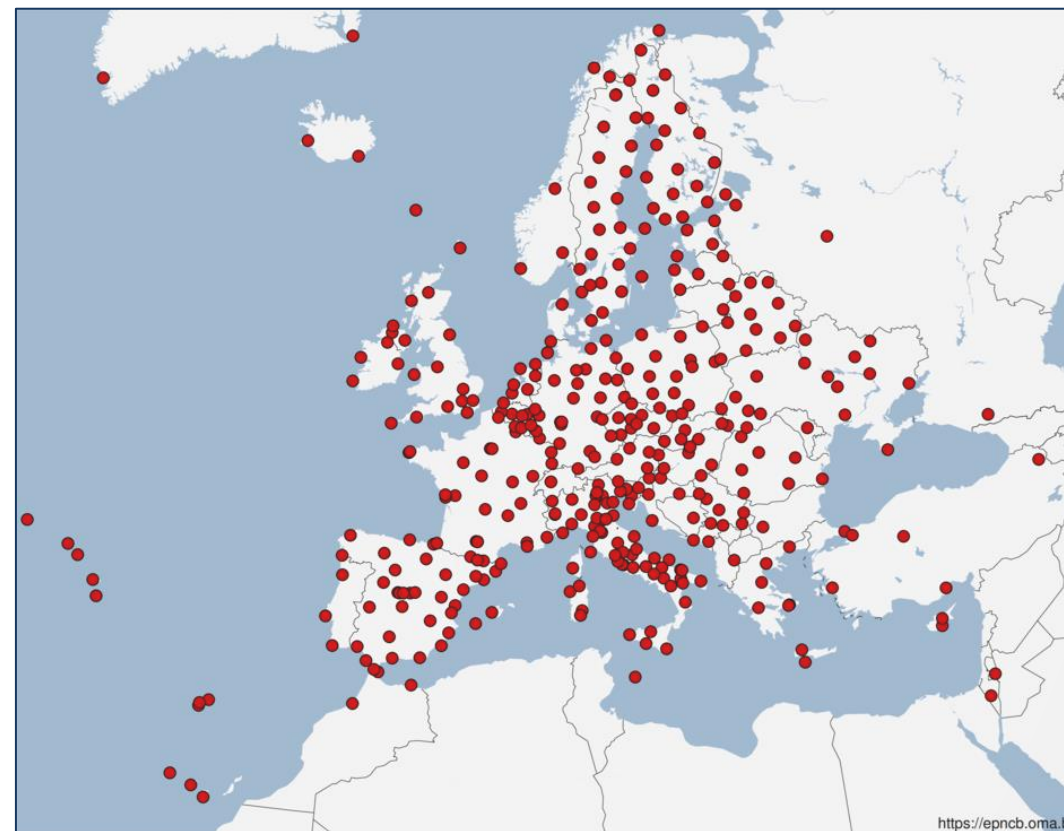
- Realize and maintain the European Terrestrial Reference System (**ETRS89**)
- Support precise geo-referencing applications
- Provide high-quality GNSS data and products for geodesy, geophysics, atmospheric sciences, ...

1996-2026

1996



2026



Introduction

Key Features

- ~400+ continuously operating GNSS stations
- Open access to GNSS data and products (RINEX, coordinates/velocities, position, time series, tropospheric parameters, ...)
- Quality control procedures on data and products
- Station operators, data centers, analysis centers, and coordinators

EPN Central Bureau

- Maintains the EPN Information System - Entry point for users (web/mail)
- Provides
 - Information on EPN stations: station metadata (M³G: site log, DOIs, data license), data access info, data availability statistics, data quality information
 - Information on EPN products: description, product access info
- Monitors alignment of GNSS data with EUREF standards
- Supports link with European & global infrastructures (EPOS, IGS)



PARTNER



ROYAL OBSERVATORY OF BELGIUM

EUREF Permanent GNSS Network



[HOME](#) [ORGANISATION](#) [NETWORK & DATA](#) [PRODUCTS & SERVICES](#) [DOCUMENTATION](#) [NEWS, EVENTS & LINKS](#) [SEARCH](#)

Welcome

The Local Organizing Committee is pleased to announce that the next **EUREF Symposium** will take place from 23 to 25 June 2026, in ENSA Paris-Val de Seine, France.

Welcome to the EPN CB

The **EPN Central Bureau (EPN CB)** coordinates and supports the **EUREF Permanent GNSS Network (EPN)** — a pan-European network of continuously operating GNSS reference stations.



Active EPN stations

Our Mission

We act as the central information hub for the EPN network, focusing on:

- Managing the inclusion and maintenance of EPN stations according to technical standards.
- Coordinating activities between station operators, data centres, and analysis centres.
- Monitoring station data flow and data quality.
- Providing documentation, guidelines, and tools for the community.
- Facilitating open access to GNSS data and products, in line with FAIR principles.

NOTE: The EPN CB does **not** operate the EPN stations. Each station is managed by its responsible agency or institution.

Why it Matters

The EPN distributes GNSS data, station coordinates, and velocities, allowing national mapping agencies and users to express their GNSS networks in the [ETRS89](#) which forms the backbone for geolocation data on the European territory.

What the EPN Offers

- A network of 400+ active reference stations across Europe providing high-quality GNSS data.
- Freely accessible GNSS data and derived products under an open-data policy.
- Web services and APIs for seamless data integration.
- Comprehensive documentation and community support.

OPEN DATA: All data distributed via EPN are openly available and free to use for any purpose — including research, education, and commercial applications.

Join our Community

Whether you are a station operator, data user, developer, national agency or commercial service provider — we invite you to explore our resources, participate in the network and help drive

Quick Station Links

[Information](#) [Coordinates](#) [Time Series](#) [Data Quality](#) [Data Calendar](#)

Next Meetings

2026-05-24 / 2026-05-29 :
[FIG Congress 2026](#) (Cape Town, South Africa)

2026-05-26 / 2026-05-28 :
[2026 GEO Symposium and GEO-21 Plenary](#) (Geneva, Switzerland)

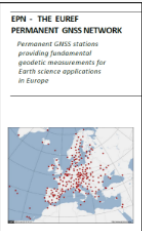
2026-06-01 / 2026-06-05 :
[IGS Workshop 2026](#) (Santiago, Chile)

[More ...](#)

How to cite

Whenever using EPN CB data, products, or services, please include the citation [Bruyninx, C., Legrand, J., Fabian, A., Pottiaux E., GNSS metadata and data validation in the EUREF Permanent Network, GPS Solut \(2019\) 23: 106. <https://doi.org/10.1007/s10291-019-0880-9>](#).

In addition to this citation, add the Digital Object Identifier corresponding in the data, product or service used, see <https://epncb.oma.be/DOI/>.



EPN flyer

<https://epncb.oma.be/>

INTRODUCTION

ROYAL OBSERVATORY OF BELGIUM

EUREF Symposium, June 23-25, 2026, Paris, France

 EUREF

EUREF2026

 CC BY

Voluntary contributions are the strength of EUREF !

All agencies contributing to the EPN are mentioned here

<https://epncb.oma.be/organisation/contributors.php>

- Station owners
- Data centres
- Analysis centres

+

Several coordinators and WG chairs

Home / Organisation / Contributors

Contributors

Quick Links: Analysis Centres (Operational - Reprocessing 1 - Reprocessing 2 - Reprocessing 3) - Data Centres (Historical - Regional - Local) - Regional Broadcasters - Station Owners - Metadata Maintainers

ANALYSIS CENTRES

Operational

Search:

Agency Acronym	Name	Country
ASI	Centro di Geodesia Spaziale G. Colombo, Matera	Italy
BEK	Kommission für Erdmessung und Glaziologie (Bayerische Akademie der Wissenschaften), Munich	Germany
BEV	Federal Office of Metrology and Surveying Austria	Austria
BKG	Bundesamt für Kartographie und Geodäsie	Germany
COD	Centre for Orbit Determination in Europe, Astronomical Institute of the University of Bern	Switzerland

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New EPN stations since June 2025

429 EPN stations

10 new EPN stations:

Andorra: PCAR00AND

Austria: GRZ200AUT

Germany: WT2100DEU

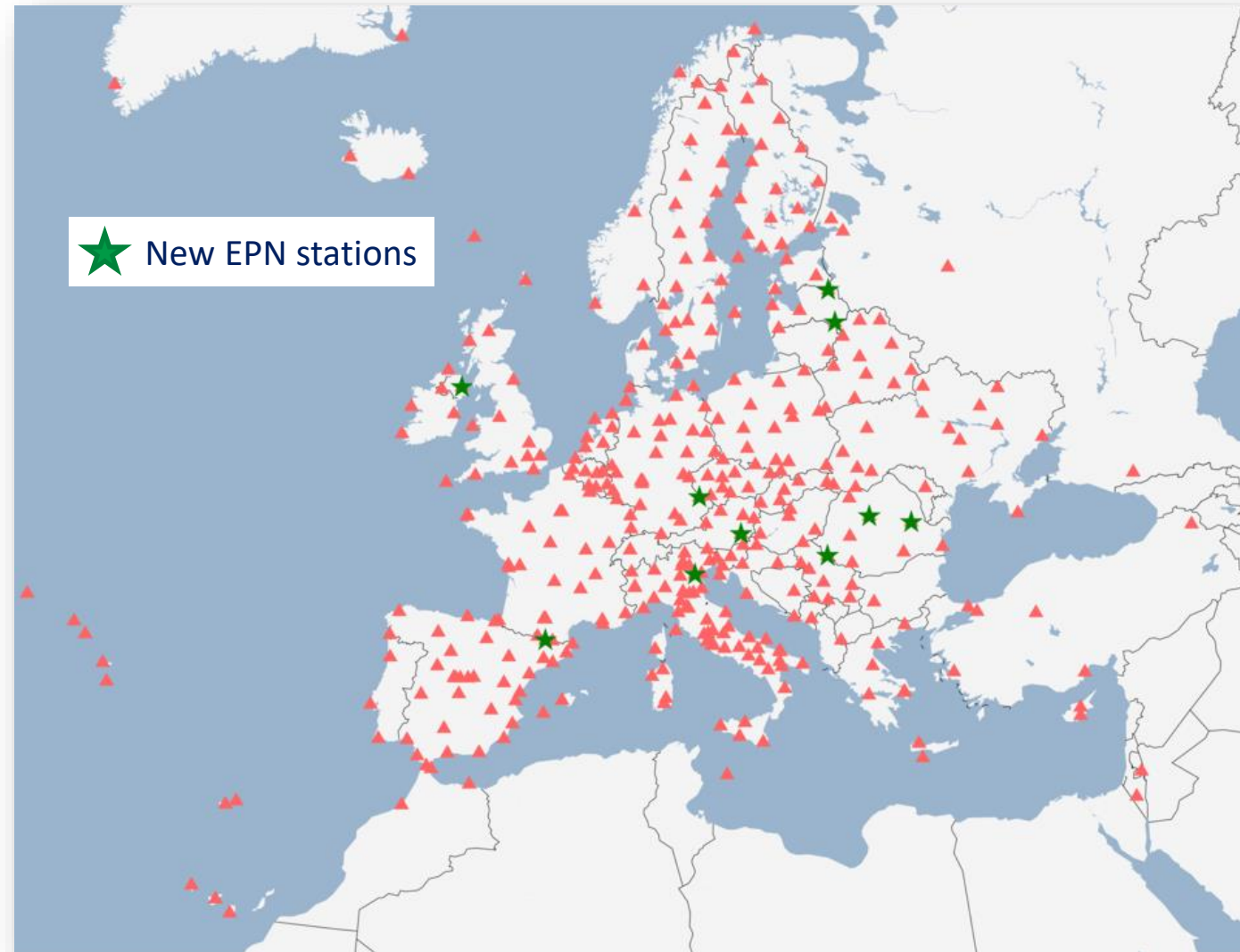
Italy: PAD100ITA

Latvia: ALKS00LVA, DLKS00LVA

Northern Ireland: BFST00GBR

Romania: FOCS00ROU, MURE00ROU

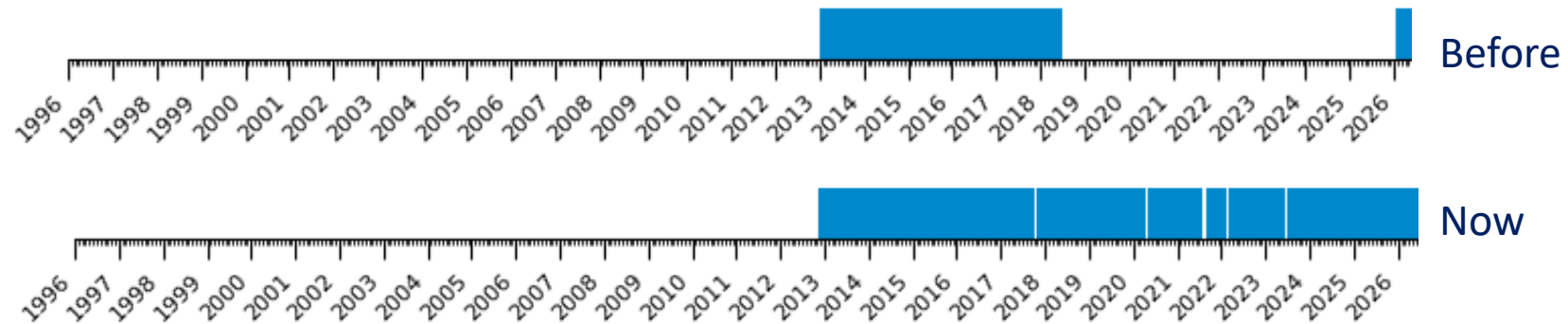
Serbia: PLN200SRB



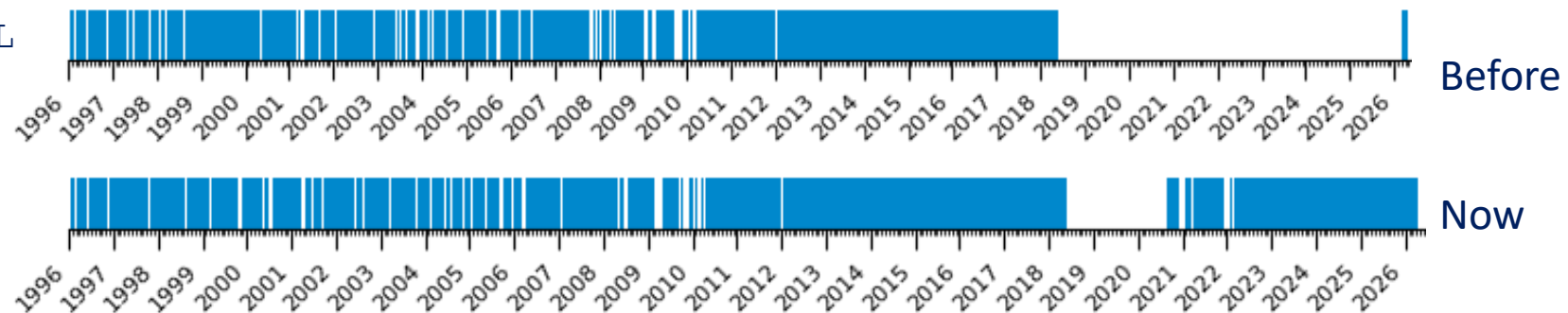
New EPN stations since June 2025

Former stations re-included in the EPN + completing historical data:

Hungary: PEN200HUN



Greenland: KELY00GRL



Station status

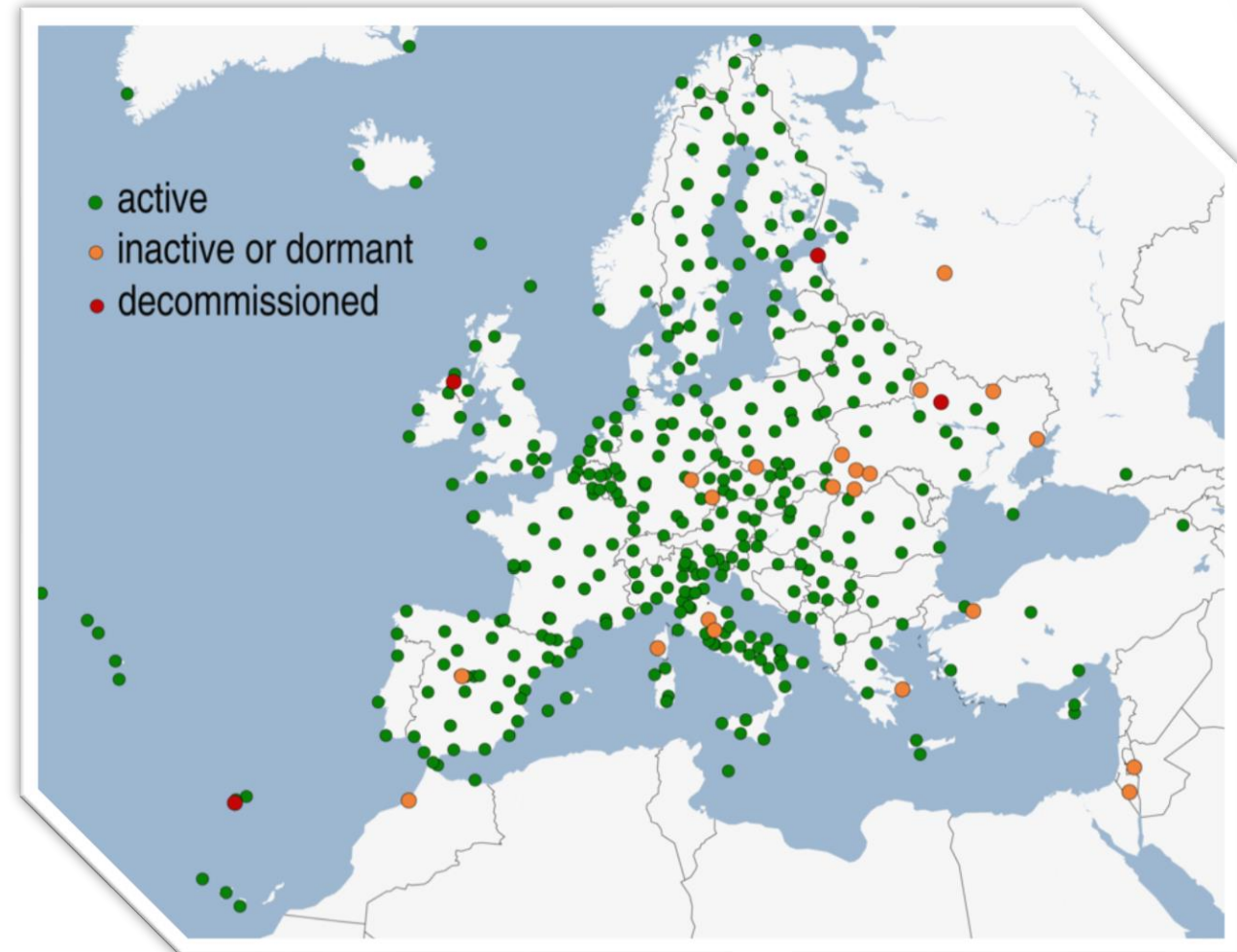
Decommissioned stations (4)

- Estonia: TOIL00EST
- Ukraine: PRYL00UKR
- UK: FOYL00GBR
- Portugal: FUNC00PRT (→ FUN100PRT proposed)

Dormant stations (10 → 18 !)

No data in last 3 months

- CNIV00UKR, KHAR00UKR, MARP00UKR, **FRA200UKR, MARP00UKR, MUK200UKR, RAH100UKR, Sulp00UKR, TER200UKR**
- POUS00CZE, BISK00CZE, VACO00CZE
- TUBI00TUR
- UNPG00ITA, UNTR00ITA, VIGI00ITA
- MAD200ESP**
- RABT00MAR**



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Some EPN-related resolutions

Strategic guidelines

How does the EUREF community want the EPN to evolve?

- 2019: Encourage to contribute to **EPOS** + submit **RINEX 3**
- 2021: **FAIR data principles** + Coordinates in **real-time** streams
- 2023: Use **M³G** not only for EPN stations
- 2024: Encourage usage of **Digital Object Identifiers (DOI)**
- 2024: Encourage **collocation** of EPN stations with **InSAR equipment**
- 2025: Automatic **integration of EPN stations in EPOS**

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EPOS-related resolutions

EPN stations in EPOS:

2023	2024	2025	2026
81%	→ 87 %	→ 87%	→ 100%

What does it mean in practice? EUREF has 2 technical interfaces with EPOS:

- M³G :
 - web services make EPN site log, DOI, data license, site pictures visible in EPOS platform
- ROB Historical Data Center acts as an EPOS-GNSS data node:
 - web services make EPN daily RINEX data visible in EPOS platform

<https://www.epos-eu.org/dataportal>

Free text search

Filters

Coordinates

°North

°South

°West

°East

✓

✕



YYYY-MM-DD HH:mm:ss

YYYY-MM-DD HH:mm:ss



☐ Last Month

☐ Last Week

☐ Last Day

Data and Service Providers

Data Visualization

Clear All x



GNSS Data and Products

18

> All Categories (18)

Categories: [GNSS Station Information](#)

Visible on: [Map](#) [Table](#)

Service Provider: ORB - Observatoire royal de Belgique

Advanced search filters (3 of 9)



Coordinates: 90

-90

-180

180



YYYY-MM-DD HH:r

YYYY-MM-DD HH:r



1. RINEX Data Provider

--EMPTY--

2. Country/Region

--EMPTY--

3. Data Node

ROB-EUREF

4. GNSS Network

EPN

5. GNSS Virtual Network

6. GNSS Station ID

EUREF Symposium, June 23-25, 2026, Paris, France



EUREF2026



Free text search

Filters

Coordinates °North °South °West °East ✓

YYYY-MM-DD HH:mm:ss YYYY-MM-DD HH:mm:ss

☐ Last Month ☐ Last Week ☐ Last Day

Data and Service Providers

Data Visualization

Clear All ✕



1 GNSS Data and Products

18

> All Categories (18)

Categories: [GNSS Station Information](#)

Visible on: [Map](#) [Table](#)

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Advanced search filters (3 of 9)

Coordinates: 90 -90 -180 180

YYYY-MM-DD HH:r YYYY-MM-DD HH:r

1. RINEX Data Provider

--EMPTY--

2. Country/Region

--EMPTY--

3. Data Node

ROB-EUREF

4. GNSS Network

EPN

5. GNSS Virtual Network

6. GNSS Station ID

GNSS Stations

[View on Table](#)

SUL500DNK
Station Antenna-
NORTH (2011-06-
28)



GNSS Station ID SUL500DNK

< 1 of 2 >

GRAPH

2

TABLE

EUREF Symposium, June 23-25, 2026, Paris, France



EUREF2026

Free text search

Filters

Coordinates °North °South °West

YYYY-MM-DD HH:mm:ss YYYY-MM-DD

Last Month Last Week

Data and Service Providers

Data Visualization

GNSS Data and Products

Service Provider: ORB - Observatoire royal

Advanced search filters (2 of 9)

Coordinates: 90 -90 -180

YYYY-MM-DD HH:m YYYY-MM-DD

1. RINEX Data Provider

--EMPTY--

3. Data Node

--EMPTY--

5. GNSS Virtual Network

--EMPTY--

7. Downloadable File Type

--EMPTY--

2. Country/Region

--EMPTY--

4. GNSS Network

EPN

6. GNSS Station ID

--EMPTY--

Results per page: 10

Page 2 of 2

Navigation icons: back, forward, first, last

Table panel

GNSS Stations

GNSS Stations

Search table rows

Select Columns: 9/24

GNSS Station ID, RINEX D...

Expand all

Page number:

5

Results per page: 5

Page 5 of 104

Total Results: 520

	GNSS Station ID	RINEX Data Provider	Country/Region	City	GNSS Network	Lat/Lon/Height	GNSS Antenna (Current)	GNSS Receiver (Current)	RINEX Data DOI
	AUBG00DEU	Bundesamt fuer Kar...	DEU	Augsburg	E-GVAP, EPN, EPOS	48.4213/10.9213/50...	LEIAR25.R3 LEIT	JAVAD TRE_3S DELTA	https://doi.org/10.2...
	AUT100GRC	Aristotle University ...	GRC	Thessaloniki	E-GVAP, EPN, EPOS, ...	40.56682/23.00372/...	LEIAT504 LEIS	LEICA GRX1200PRO	https://doi.org/10.2...
	AUTN00FRA	Institut National de l'Information Géographique et Forestière	FRA	Autun	E-GVAP, EPN, EPOS, RGP	46.95383/4.28897/35 2.9	TRM57971.00 NONE	LEICA GR50	https://doi.org/10.24414/ROB-EUREF-AUTN00FRA
	AXPV00FRA	Institut National de l...	FRA	Aix En Provence	E-GVAP, EPN, EPOS, ...	43.49121/5.33319/2...	TRM57971.00 NONE	LEICA GR50	https://doi.org/10.2...
	BACA00ROU	National Center for ...	ROU	Bacau	E-GVAP, EPN, EPOS, ...	46.56206/26.91221/...	--	--	https://doi.org/10.2...

BACA00ROU Station Antenna (2005-08-05)



1 of 1



ORGANISATION ▾

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DOCUMENTATION ▾

NEWS, EVENTS & LINKS ▾



[Home](#) / [DOI](#) / GNSS data of AUTN00FRA, Autun, France

GNSS data of AUTN00FRA, Autun, France

DOI	https://doi.org/10.24414/ROB-EUREF-AUTN00FRA
Title	GNSS data of AUTN00FRA, Autun, France
Authors	Institut National de l'Information Géographique et Forestière (IGN_RGP) 
Publisher	Royal Observatory of Belgium (ROB) 
Published	2026
Description	Permanent GNSS station dataset as RINEX files
Resource Type	Dataset
Data Citation	Institut National de l'Information Géographique et Forestière (IGN_RGP) (2026): GNSS data of AUTN00FRA, Autun, France, Available from Royal Observatory of Belgium (ROB). https://doi.org/10.24414/ROB-EUREF-AUTN00FRA 
Data Access	EPOS (JSON  , TXT  , CSV ) EUREF (JSON  , TXT )
Data License	CC BY 4.0  
Station Information	EPN and/or EPOS station information RGP station information
Related Resources	GNSS networks: RGP , EPOS , EPN 
More Metadata	GNSS station metadata - GeodesyML DOI metadata - DataCite (XML , JSON) M³G Object Identifier

EPOS-GNSS Data Quality Monitoring System



EPOS-GNSS Data Quality Monitoring Portal

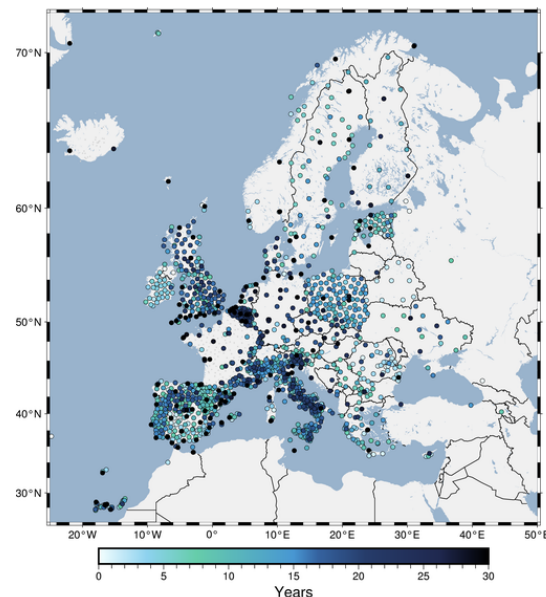
https://gnssquality-epos.oma.be/links_and_doc/webinar.php



🏠 RINEX DATA AVAILABILITY ▾ RINEX DATA QUALITY ▾ NODE MONITORING ▾ LINKS AND DOCUMENTATION ▾

Welcome !

Welcome to the **EPOS-GNSS data quality monitoring** portal.



Map of the EPOS-GNSS stations with daily RINEX data; the color code shows the number of days with data quality metrics (converted in years). The EPOS-GNSS stations without data are shown in grey

The portal is the public front-end of the “EPOS-GNSS Data Quality Monitoring Service” (DQMS) maintained by the Royal Observatory of Belgium.

The DQMS monitors the availability and quality of the daily GNSS data that are made discoverable through the TCS “GNSS data and products” (EPOS-GNSS) via the EPOS-GNSS data nodes and the EPOS-GNSS Data Gateway (DGW).

Who should use it

- **Station operators:** If you run a GNSS station that contributes data to EPOS-GNSS, this portal lets you check whether your daily data are being populated properly at the nodes (availability) and whether the data quality meets expectations.
- **Node managers / DGW administrators:** Those responsible for EPOS-GNSS data nodes can monitor the performance of all stations as well as the node infrastructures itself and detect issues early.
- **Researchers / data users:** If you use GNSS data from EPOS to produce geophysical products (e.g., station velocities, deformation maps), the portal helps you assess the data quality and reliability of the underlying observations before interpreting results.

Why it matters

- GNSS data quality is critical: Poor data (missing observations, high cycle slips, multipath problems) can lead to biased geodetic or geophysical results (e.g., misleading station displacement).
- It fosters operational oversight of a distributed European GNSS infrastructure: many nodes, many stations — monitoring helps maintain and improve network performance.
- The portal supports FAIR-data principles (Findable, Accessible, Interoperable, Re-usable) by ensuring data quality is transparent and monitored.



WEBINAR

A Synergy between EUREF and EPOS:
Data Quality Monitoring Service
(DQMS)



Speaker :
FIKRI BAMAHRY
Royal Observatory of Belgium

🕒 10AM CEST

📅 JUNE 11, 2026

REGISTRATIONS ARE OPEN AT

gnss-epos.eu/2026-webinars

Contact Us
communication@gnss-epos.eu

EUREF Symposium, June 23-25, 2026, Paris, France



EUREF2026

Some EPN-related resolutions

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FAIR-related resolutions

DOI coverage

EUREF symposium 2024 **12%**

- 63 EPN stations with DOI in M³G

EUREF symposium 2025 **44%**

- 215 EPN stations with station DOI in M³G
- 11 EPN stations with network DOI in M³G

EUREF symposium 2026 **82%**

- 385 EPN stations with station DOI in M³G
- 37 EPN stations with network DOI in M³G

Future

Continue to encourage EPN station managers

1. Mint DOIs themselves (preferred solution)

- Network
 - Set up network in M³G and add DOI
 - Link stations to network
- Station (GGOS recommendations:
<https://zenodo.org/records/16992829>)

2. Accept EPN CB offer to create a DOI

Also important for FAIR:

- + Data license for RINEX data of all EPN stations
- + RINEX data available from HDC through API including rich metadata

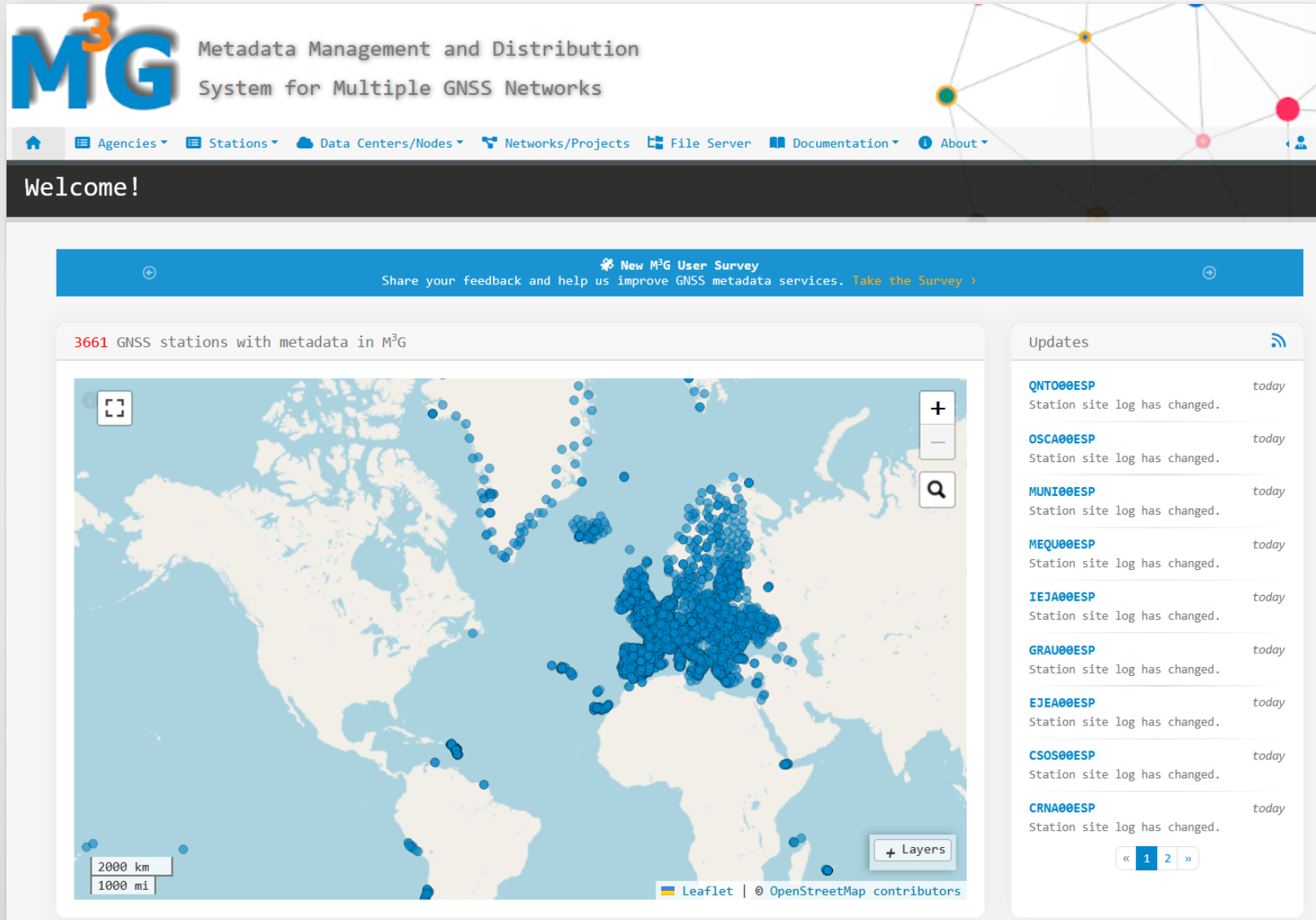
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M³G resolutions



<https://gnss-metadata.eu>

FOLLOW UP ON RESOLUTIONS

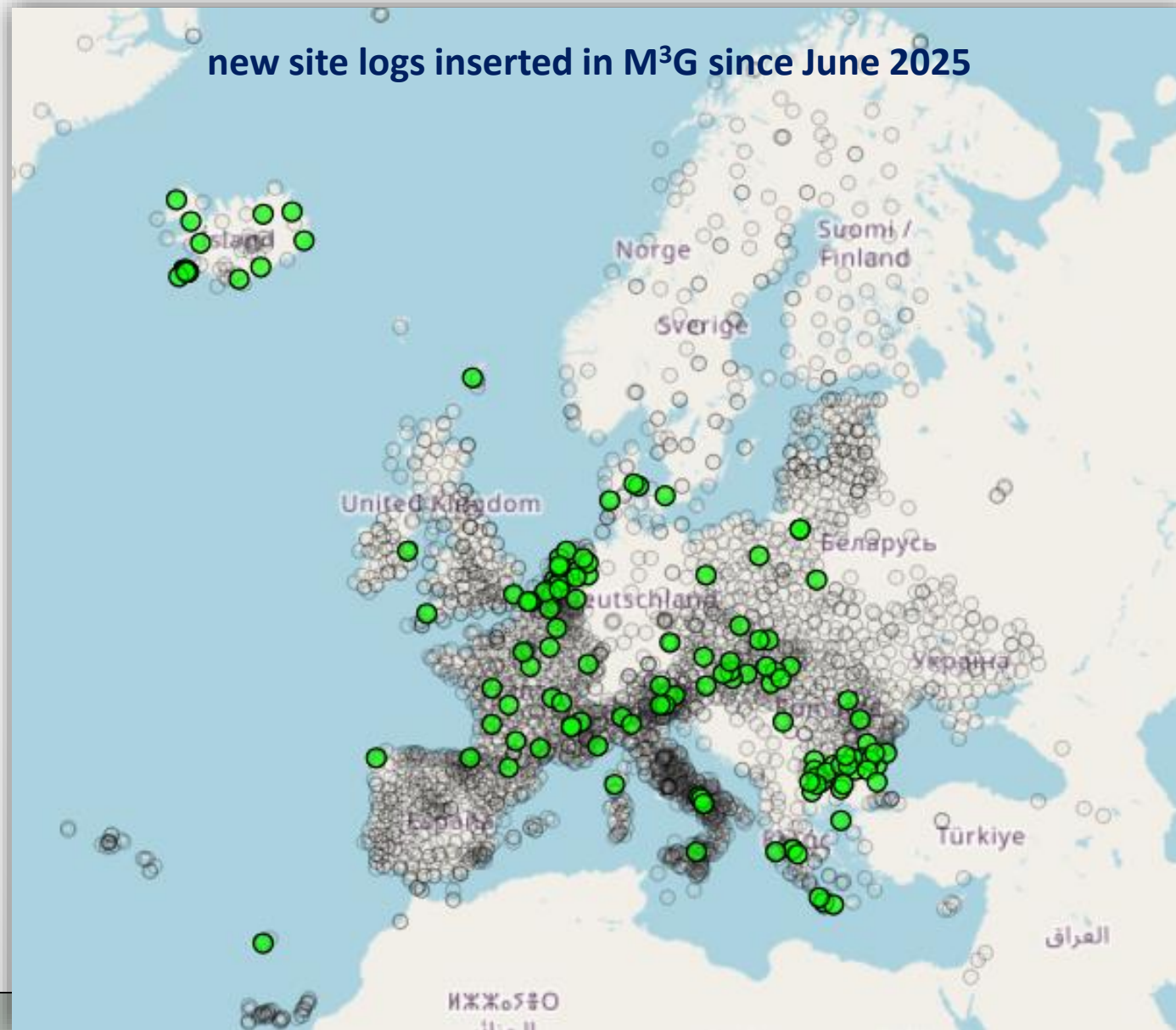
June 2024:
3136 stations in M³G

Site logs for ~1400 EPN
densification stations

June 2025:
3493 stations in M³G

Site logs for ~1400 EPN
densification stations

M³G resolutions



June 2024:

3136 stations in M³G

Site logs for ~1400 EPN
densification stations

June 2025:

3493 stations in M³G

Site logs for ~1400 EPN
densification stations

June 2026:

3661 stations in M³G

Site logs for ~1400 EPN
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Collocation with InSAR

Proposed guidelines for including colocated InSAR infrastructure in GNSS sitelogs

Lennard Huisman (NSGI - Kadaster) and Hans van der Marel (Delft University of Technology)

Introduction

More and more InSAR *Corner Reflectors (CR)* and *Active Compact Transponders (ACTR)* are collocated with GNSS reference stations. At the EUREF 2023 symposium, an action was taken to provide EPN station managers with guidelines on how to include these collocations in sitelogs. Such guidelines are important to harmonize the information on GNSS and InSAR collocations. The collocation information on InSAR in the GNSS sitelog is meant to identify the collocated instrumentation and installation type for a certain period.

Collocation section in GNSS sitelogs

Collocation information can be added to section 7 of the GNSS sitelogs. The structure of section 7 is as follows:

7.1. Instrumentation Type : (GPS/GLONASS/DORIS/PRAISE/SLR/VLBI/TIME/etc)
Status : (PERMANENT/MOBILE)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (multiple lines)

The next sections will suggest how to fill these four subsections.

Instrumentation type

The instrumentation type should describe the type of InSAR instrumentation (CR or ACTR). Next to that, the instrumentation can be set up to reflect signals in the *Ascending (A)* or *Descending (D)* track. If a pair of instruments is installed for both ascending and descending tracks, the instrumentation is *Coupled (C)*. In case the InSAR instrumentation is mechanically coupled and integrated with the GNSS monument and the GNSS station is continuously operating, the installation type is *Integrated (I)*. To describe the InSAR instrumentation type in the collocation section, we suggest the following convention:

INSAR <instrument type> <installation type>.

This leaves us with the following table of possible instrumentation types:

INSAR instrument / installation type	Ascending (A)	Descending (D)	Coupled (C)	Integrated (I)
Corner reflector (CR)	INSAR CR/A	INSAR CR/D	INSAR CR/C	INSAR CR/I
Active compact transponder (ACTR)	INSAR ACTR/A	INSAR ACTR/D	INSAR ACTR/C	INSAR ACTR/I

Status

If the installation is not permanent the status is mobile.

Effective dates

InSAR instrumentation needs to be aligned relative to the satellite ground tracks. In some cases, instrumentation is installed but not aligned immediately. In this situation, it can happen that the instrument is already affecting the scatter in InSAR data but not usable. The effective dates are preferred to provide the period in which the instrument was orientated correctly.

Notes

If a transponder and corner reflector information file or other information is available, the notes section can be used to provide a hyperlink to this logfile or add the information. An example is given on the right for IJMU00NLD.

Surveyed local ties

If there is information on the relative position of the InSAR and GNSS instruments this information can be added to the existing section 5 on surveyed local ties.

Next steps

We recommend to include these guidelines into the Guidelines for EPN Station & Operational Centres, for example in section 2.3 of those guidelines. The updated guidelines can then be shared with station operators with a recommendation to include information on InSAR and GNSS collocation in GNSS sitelogs. If this action is successful, it might be followed up by an action to harmonize information on other collocated sensors, such as gravimetry sensors, as well.

Examples of instrumentation and installation types

Below some examples of instrumentation and installation types are shown for clarification.

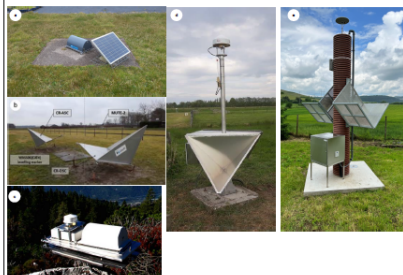


Figure: Different types of instruments:

- Coupled active transponder: ACTR/C,
- Two colocated, not coupled, corner reflectors: CR/A and CR/D,
- Active transponder integrated with GNSS: ACTR/I,
- Integrated Geodetic Reference Station (IGRS) CBW100NLD: CR/I,
- Integrated setup SPVL00SVK: CR/I

Sitelog example IJMU00NLD

7. Collocation Information	
7.1 Instrumentation Type	: TIDE-GAUGE STATION
Status	: PERMANENT
Effective Dates	: 1996-08-27/CCYY-MM-DD
Notes	: Tide gauge on Brouwers coast operated by Rijkswaterstaat
7.2 Instrumentation Type	: UNDERGROUND LEVELING BENCHMARK
Status	: PERMANENT
Effective Dates	: 2004-12-30/CCYY-MM-DD
Notes	: Dutch height system NAP benchmark No. 024F0042
7.3 Instrumentation Type	: INSAR ACTR/D
Status	: PERMANENT
Effective Dates	: 2012-05-14/2012-11-16
Notes	: INSAR transponder No. CAT1, occupancy code 01A0 Systems: RSL
7.4 Instrumentation Type	: INSAR ACTR/D
Status	: PERMANENT
Effective Dates	: 2012-11-14/2018-03-14
Notes	: INSAR transponder No. CAT1, occupancy code 01B0 Systems: RSL CAT moved to other side of mast
7.5 Instrumentation Type	: INSAR ACTR/D
Status	: PERMANENT
Effective Dates	: 2015-09-14/2015-10-27
Notes	: INSAR transponder No. CAT1, occupancy code 01B1 Systems: RSL, SL Sentinel-1 (S1) observations added to program
7.6 Instrumentation Type	: INSAR ACTR/C
Status	: PERMANENT
Effective Dates	: 2013-09-16/CCYY-MM-DD
Notes	: INSAR transponder No. E127, occupancy code 01C0 Systems: SL
7.7 Instrumentation Type	: (GPS/GLONASS/DORIS/PRAISE/SLR/VLBI/TIME/etc)
Status	: (PERMANENT/MOBILE)
Effective Dates	: (CCYY-MM-DD/CCYY-MM-DD)
Notes	: (multiple lines)

- Reached agreement with the IGS on how to document InSAR collocation in GNSS site log
- Implementation in M³G with dedicated keywords for InSAR collocation
- M³G FAQ provide more information on how to do it (<https://gnss-metadata.eu/site/faq>)

Documentation of colocated instruments

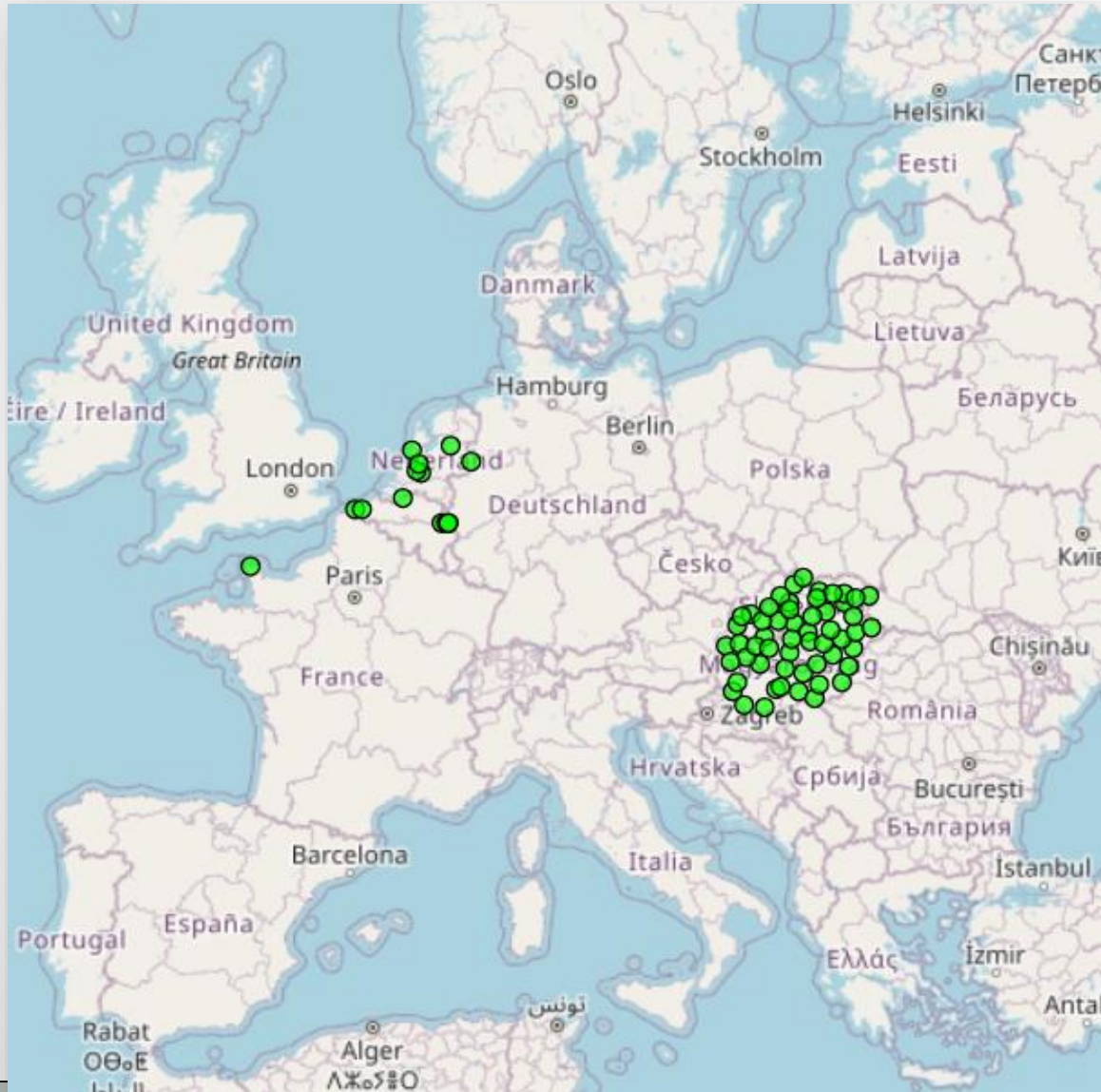
How can I include InSAR collocations in GNSS sitelogs?

- InSAR collocations are documented in Section 7 (Collocation Information) of the GNSS sitelog by adding a dedicated InSAR instrumentation entry. This ensures consistent and time-dependent documentation of GNSS-InSAR collocations.
- Each colocated InSAR device is described using a **standardized Instrumentation Type** (e.g. INSAR CR/I, INSAR ACTR/C). For each entry, specify the status, effective dates, and provide **brief notes** on the instrument and installation. Changes in configuration or location should be recorded as a new entry with updated dates.

How do I encode the Instrumentation Type of a colocated InSAR device?

What level of detail is required when describing a colocated InSAR device?

Collocation with InSAR



69 GNSS stations in M³G have indicated collocation with InSAR

7. Collocation Information

7.1 Instrumentation Type	: INSAR CR/I
Status	: PERMANENT
Effective Dates	: 2022-06-07/CCYY-MM-DD
Notes	: Integrated Geodetic Reference Station (IGRS) : with mechanically coupled GNSS antenna, double : backflip square trihedral corner reflectors for : ascending and descending (In)SAR acquisitions.

Outline

- Introduction
- Status of EPN tracking network
- Follow-up on EUREF resolutions
- News
- Summary

News

- New repository hosting M³G-related tools (scripts, notebooks, etc...) from the M³G user community: <https://gitlab.com/m3g-toolbox>
- Migration from EPN CB to new, more secure server, has started – will take several months

By the end of 2026:

- No ftp anymore
- New EPN CB on-line coordinate transformation tool
 - Supporting epoch changes for stations without velocity (using velocity models)
 - API support
- All EPN CB API will require authentication token
- Synergy of EPOS and EUREF GNSS data quality checks
- Continue improving FAIRness of daily RINEX data provided by the HDC
 - Inclusion of provenance information in output of API used to access daily RINEX data from HDC

More info will be provided through EUREF mail
Send message to epncb@oma.be to register !

Outline

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Summary

- ✓ 10 new EPN stations → 429 EPN stations
- ✓ 18 EPN stations not providing data since several months (years)
- ✓ Progress:
 - ✓ 87% → 100% of EPN stations also distributing data through EPOS
 - ✓ 98% → 100% of EPN stations with data license for their daily RINEX data
 - ✓ 44% → 82% of EPN stations have a DOI
 - ✓ Increase of station site logs in M³G, but ... again...no increase for EPN-D stations...
 - ✓ M³G was updated to ingest collocation with InSAR

Contact

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Thank you for your attention

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