



EPOS-GNSS Data Gateway User Training

2. Demo

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Geo-INQUIRE is funded by the European Union. Views and opinions expressed are however those of the authors only and do not necessarily reflect those of the European Union or the European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.



Before we start

- **Safari is not currently supported.** Please use **Chrome** or **Firefox**.
- The EPOS-GNSS data distribution system is extremely complex, and includes so many parameters that it is not possible to test every possible cases
- The service is reasonably robust, but please use it mindfully.
 - For example, downloading several thousand files through the web interface may require your browser to handle several gigabytes of data. Please, use alternatives for massive download (see examples later).
- The tools that will be presented are constantly evolving and improving
- This is the first live demo with so many participants, so I hope everything will go smoothly

The Web Interface

Best suited for:

- Interactively exploring stations and files
- Understanding what types of queries are possible
- Preparing queries to be used with the other interfaces
- Performing one-off downloads
- Accessing node and data information, including alerts, news, status updates, and other important announcements

EPOS-GNSS DATA GATEWAY

Metadata Search | Files Search / Download | Clear | Show advanced search | Export table as CSV

Spatial selection

Rectangle
Lat-Lon Bounding Box
North | West | East | South

Circle
Latitude | Longitude | Radius (Km) | 0

All stations | **High-rate stations**

Marker	Site Name	Latitude (°...)	Longitude...	Altitude (m)	Install Date	End Date	Country	Nodes	Datacenters	City	Agency	Network
☐	AAER00FRA	Aérodrom...	49.7825	4.6426	199.27	2025-01-3...	France	FRENCH-NOC	EPN HDC	Charleville...	Institut Nat...	RGP & EPN
☐	AARS00BEL	AARSCHOT	50.9633	4.8361	104.66	2002-10-0...	Belgium	BELGIAN-NOI	Belgian DC	Aarschot	Royal Obse...	FLEPOS
☐	AAS200GRL	Aasiaat	68.7194	-52.7932	57.71	2022-08-0...	Greenland	EPOS-GNSS I	EPOSGNSS	Aasiaat	National S...	N/A
☐	AAS100GRL	Aasiaat	68.7193	-52.7933	56.37	2005-09-2...	Greenland	EPOS-GNSS I	EPOSGNSS	Aasiaat	National S...	N/A
☐	ABAN00ESP	Abanilla	38.1751	-1.0536	207.62	2009-09-1...	Spain	SPANISH EPC	REGAM	Parque De ...	Comunica...	REGAM
☐	ABBS00GBR	St Abbs	55.8989	-2.1286	60.77	2004-10-2...	United Kin...	EPOS-GNSS I	EPOSGNSS	St Abbs	Ordnance ...	OS NET
☐	ABD000GLP	Anse-Bertr...	16.4743	-61.488	-22.65	2012-10-0...	Guadeloupe	IPGP-GNSS	IPGP-GNSS	Anse-Bertr...	Institut Nat...	RGP & TER

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The Web Interface

Discover the landing page & the functionalities

<https://gnssdata-epos.oca.eu/>

[Metadata Search](#)[Files Search / Download](#)[Clear](#)[Show advanced search](#)[Export table as CSV](#)

Spatial selection

Rectangle

Lat-Lon Bounding Box

[North](#)[West](#)[East](#)[South](#)

Circle

Latitude Longitude

Radius (Km)

0



3. Map

2. Controls

4. Data

Marker		Latitude (°D)	Longitude (°D)	Altitude (m)	Install Date	End Date	Country	Nodes	Datacenters	City	Agency	Network
		greater than ...	greater than ...	greater than ...	greater than ...	greater than ...						ex: epn,igs,...
		less than ...	less than ...	less than ...	less than ...	less than ...						inverse filter
☐	AAER00FRA	Aérodrome des Ard...	49.7825	4.6426	199.27	2025-01-30 16:00:00	France	FRENCH-NODE & RC	EPN HDC	Charleville-Mezieres	Institut National de l...	RGP & EPN
☐	AARS00BEL	AARSCHOT	50.9633	4.8361	104.66	2002-10-04 00:00:00	Belgium	BELGIAN-NODE	Belgian DC	Aarschot	Royal Observatory o...	FLEPOS
☐	AAS200GRL	Aasiaat	68.7194	-52.7932	57.71	2022-08-09 13:03:00	Greenland	EPOS-GNSS EUROP	EPOSGNSS	Aasiaat	National Space Instit...	N/A
☐	AAS100GRL	Aasiaat	68.7193	-52.7933	56.37		land	EPOS-GNSS EUROP	EPOSGNSS	Aasiaat	National Space Instit...	N/A
☐	ABAN00ESP	Abanilla	38.1751	-1.0536	207.62			SPANISH EPOS DAT	REGAM	Parque De Bombero...	Comunidad Autóno...	REGAM
☐	ABBS00GBR	St Abbs	55.8989	-2.1286	60.77	2004-10-29 00:00:00	United Kingdom of ...	EPOS-GNSS EUROP	EPOSGNSS	St Abbs	Ordnance Survey	OS NET
☐	ABD000GLP	Anse-Bertrand	16.4743	-61.488	-22.65	2012-10-05 00:00:00	Guadeloupe	IPGP-GNSS	IPGP-GNSS	Anse-Bertrand	Institut National de l...	RGP & TERIA & VOI

5. Footer (next slide)



5. Footer

EPOS-GNSS Node Infrastructure

[EPOS-GNSS nodes](#)

[How to become a node ?](#)

Other EPOS-GNSS portals

[GNSS EPOS](#)

[EPOS Data Providers](#)

Funded By



This project has received funding from the European Union under grant agreement N° 676564 and N° 101058518 and French RESIF-CORE Equipex project through the Investments for the Future Program of French National Agency for Research.

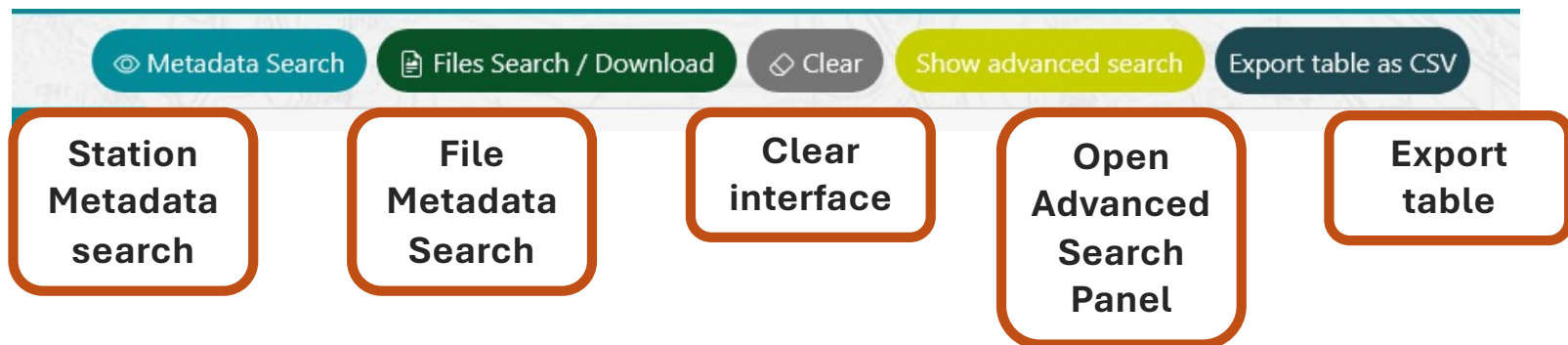
[About Us](#)

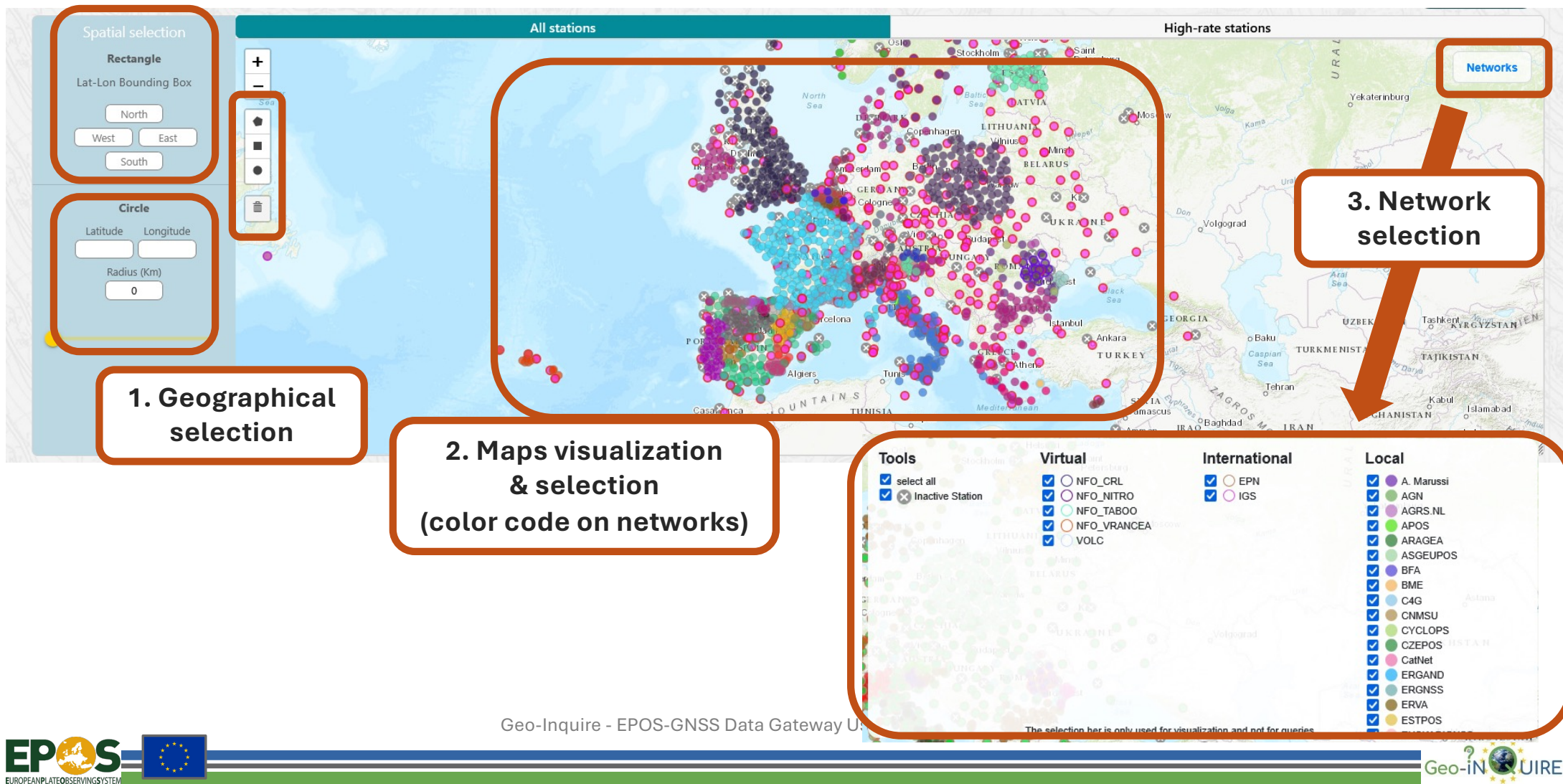
[CONTACT US](#)

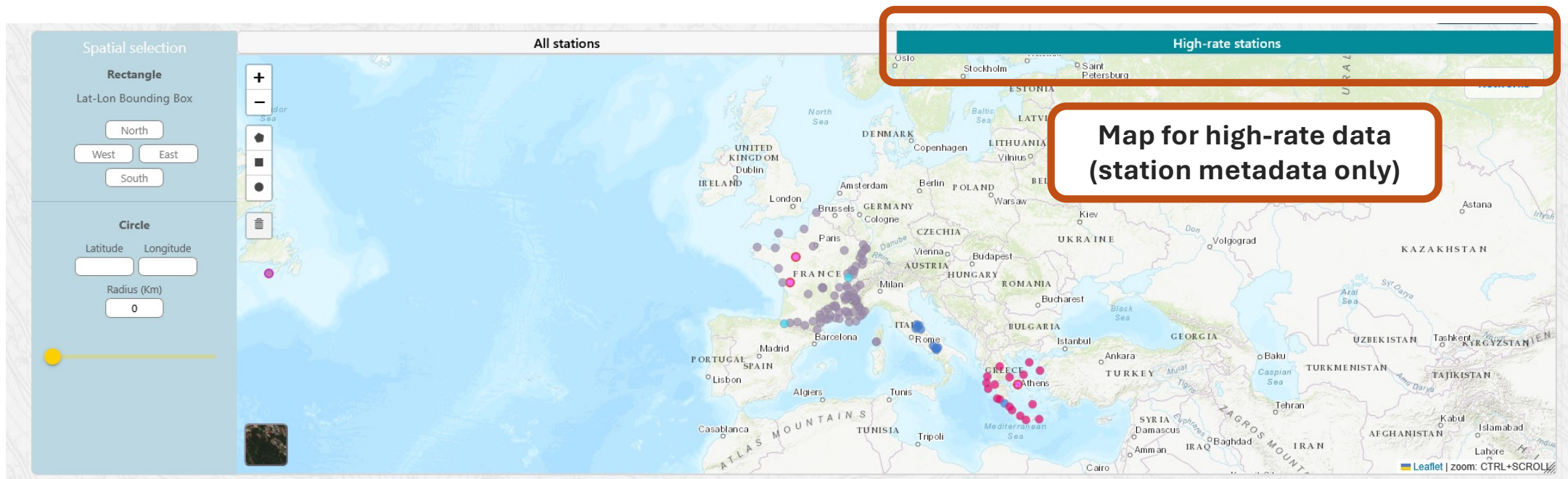
Web Client version : 3.3.6

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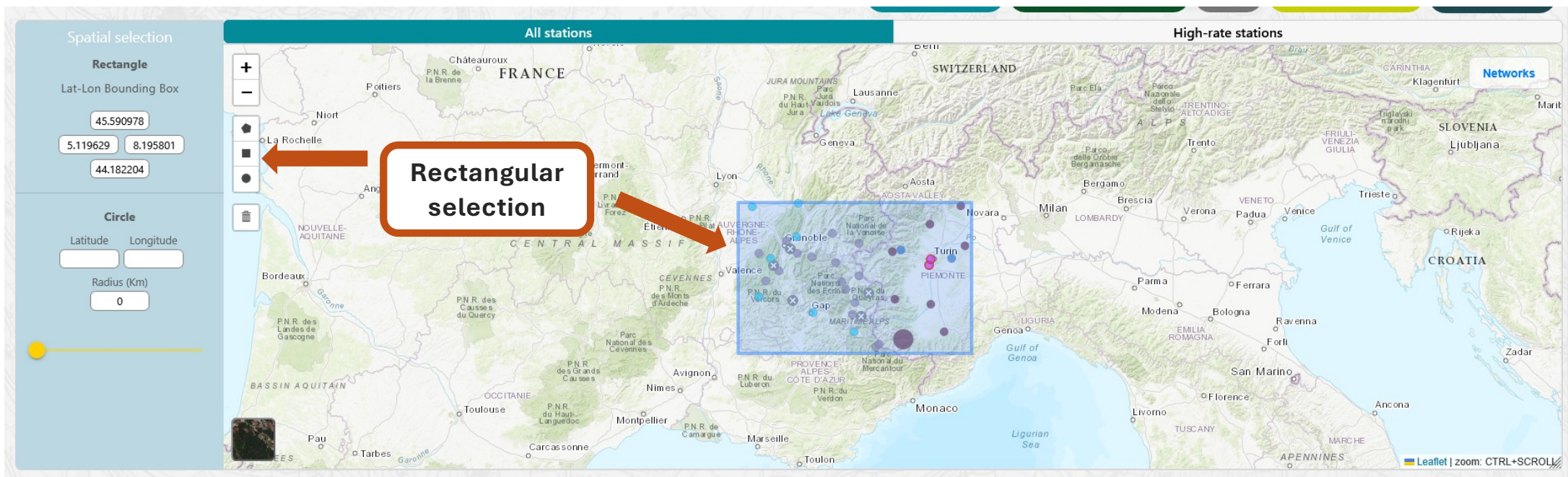








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**Station
identification
& selection**

Coordinates

**Installation
and removal
dates**

**Hosting nodes
and data
centers**

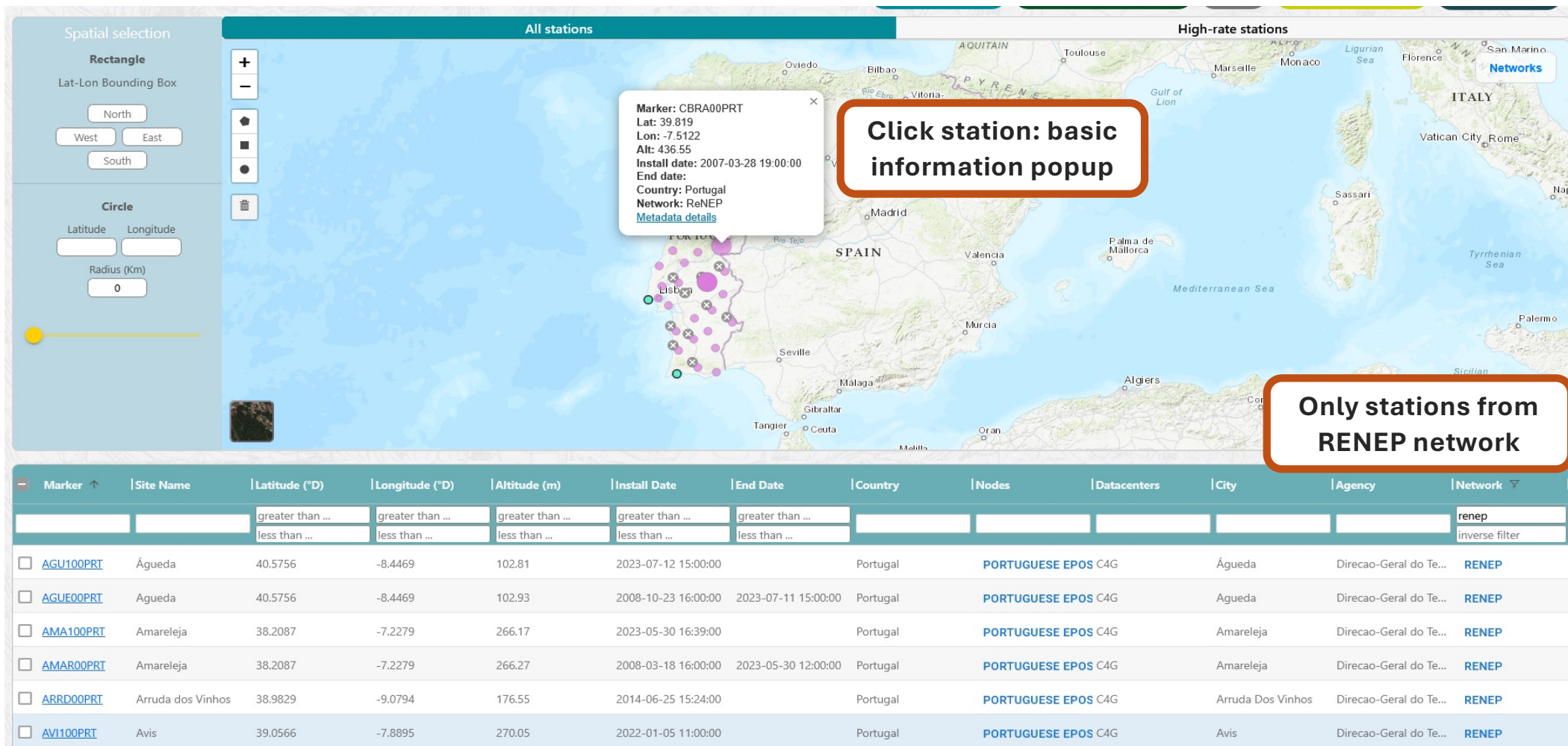
**Agency &
Network**

Filters

Country

City

Marker ↑	Site Name	Latitude (°D)	Longitude (°D)	Altitude (m)	Install Date	End Date	Country	Nodes	Datcenters	City	Agency	Network
		greater than ... less than ...	greater than ... less than ...	greater than ... less than ...	greater than ... less than ...	greater than ... less than ...						ex: epn.igs... inverse filter
☐ ANK200TUR	Ankara2 / Turkey	39.8428	32.7753	1294.32	2019-06-28 09:56:00		Turkey	ROB-EUREF	EPN HDC	Ankara	General Directorate ...	EPN & IGS
☐ ANKR00TUR	Ankara / Turkey	39.8875	32.7586	974.76	1995-06-21 00:00:00	2022-05-23 00:00:00	Turkey	ROB-EUREF	EPN HDC	Ankara	General Directorate ...	EPN & IGS
☐ ANKY00GRC	Antikithira	35.867	23.3	112	2017-06-20 00:00:00		Greece	IRN & NOA	NOA, RING	Antikithira	Istituto Nazionale di...	NOANET & RING
☐ ANLX00GBR	Angle			73.48	2009-03-27 00:00:00		United Kingdom of ...	EPOS-GNSS EUROP	EPOS GNSS, SONEL	Angle	Ordnance Survey	OS NET
☐ ANNY00FRA	Annecy			520.7	2017-05-02 00:00:00		France	FRENCH-NODE	NO DATA	Annecy	Institut National de l...	RGP & TERIA
☐ ANTI00ESP	ANTIGUA	28.4233	-14.0139	316.03	2010-02-26 00:00:00		Spain	SPANISH EPOS DAT	GRAFCAN	Antigua	Cartográfica de Can...	REPCAN
☐ ANTW00BEL	ANTWERPEN	51.2035	4.4476	63.34	2002-10-04 00:00:00	2018-05-22 12:00:00	Belgium	BELGIAN-NODE	Belgian DC	Antwerpen	Royal Observatory o...	FLEPOS
☐ APEL00NLD	Apeldoorn	52.2119	5.9623	115.87	2000-08-03 00:00:00		Netherlands	EPOS-GNSS EUROP	EPOS GNSS	Apeldoorn	Kadaster & Delft Uni...	AGRS.NL



Geo-Inquire - EPOS-GNSS Data Gateway User Training, July 10th 2026

The screenshot shows the 'Files Search / Download' section of the Geo-Inquire EPOS-GNSS Data Gateway. The interface includes a top navigation bar with buttons for 'Metadata Search', 'Files Search / Download', 'Clear', 'Hide advanced search', and 'Export table as CSV'. Below this, there are tabs for 'Monumentation / Equipment' and 'File Info'. The main search area contains several input fields and dropdown menus for filtering data. A map on the left shows the location of the data source in Georgia. A large orange box highlights the search parameters section, which includes fields for 'Date Range' (Date from and Date to), 'Data Availability' (percentage), 'Daily observation' (years), 'File Type' (RINEX2, RINEX3, RINEX4), and 'File Status' (1, 2, 3). A yellow 'Advanced Search' button is at the bottom of the search area.

1. Open/close Advanced Search Panel

2. Select parameter group

3. fill-in additional parameters

4. (optional – long-lasting) visualize effect of new parameters

The Web Interface

Discover and download station metadata

<https://gnssdata-epos.oca.eu/>

Single Station Metadata – BRUX00BEL

2b. Click on the Metadata Search

1. Type the station code

2a. Click on the station code

Marker	Latitude (m)	Install Date	End Date	Country	Nodes	Datacenters	City	Agency	Network
Brux00bel	greater than ... less than ...	greater than ... less than ...	greater than ... less than ...	greater than ... less than ...	greater than ... less than ...				ex: epn.igs... inverse filter
☐ BRUX00BEL	2006-07-07 00:00:00			Belgium	BELGIAN-NODE & R	Belgian DC, EPN HDC	Brussels	Royal Observatory o...	EPN & ROB_GNSS

1. Metadata tabs

Station / Monument

Instrumentation

Collocation / Conditions

Associated files

Data availability

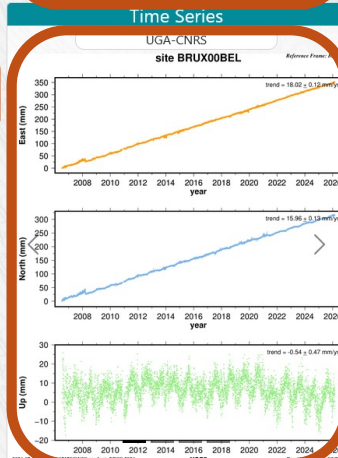
Quality Check

DOI & Licence

2. Station pictures



3. Time series



4. Basic information

BRUX00BEL

Brussels

Latitude : 50.7981

Longitude : 4.3586

Altitude : 158.26

Status : Active

Type : GNSS Continuous

Station/Monument

Station identification

Marker : BRUX00BEL

Site Name : Brussels

Installation Date : 2006-07-07 00:00:00

End Date :

Receiver Number : 0

Monument Number : 0

Network : EPN ROB_GNSS IGS

Agency : Royal Observatory of Belgium

City : Brussels

State : Brabant

Country : Belgium

Latitude : 50.7981

Longitude : 4.3586

Altitude : 158.26

X : 4027881.6284

Y : 306998.5366

Z : 4919498.9836

iers Domes : 13101M010

CDP Number :

Station type : GNSS Continuous

Monument and geological information

Marker description : CENTER OF HOLE IN STEEL PLATE

Monument Foundation : CONCRETE BLOCK

Monument Description : STEEL MAST

Monument Inscription : None

Monument Height : 8.0

Monument Foundation depth : 3.0

Geological Characteristic : sand

Bedrock condition : fresh

Bedrock type : sedimentary

Fracture spacing : 0

Fault zone : no

Distance to fault : None

Tectonic : EURASIAN

5. Station metadata

Instrumentation

Collocation / Conditions

Associated files

Data availability

Quality Check

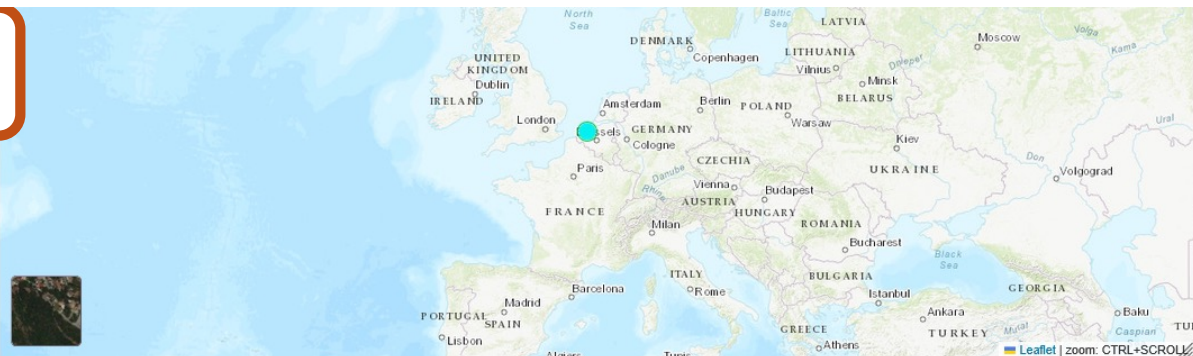
DOI & Licence

1. Instrumentation tabs

Altitude : 158.26

Status : Active

Type : GNSS Continuous



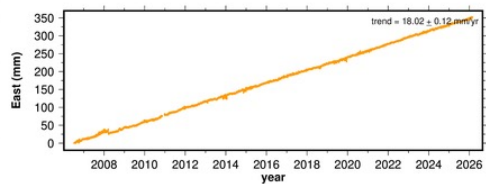
Station Pictures



Time Series

UGA-CNRS
site BRUX00BEL

Reference Frame: IGS09



Instruments session view

2. Session view

Equipments

ts list view

Other instruments

Date	Antenna	Antenna SN	Radome	Receiver	Receiver SN	Firmware	Satellite systems
2006-07-07 00:00:00 - 2008-02-15 08:00:00	ASH701945E_M	CR620023301	NONE	SEPT POLARX2	1436	2.6.2	GPS
2008-02-15 08:00:00 - 2008-03-19 09:00:00	ASH701945E_M	CR620023301	NONE	ASHTech Z-XII3T	RT820015201	1L01-1D04	GPS
2008-03-19 09:00:00 - 2008-09-22 09:00:00	ASH701945C_M	CR620002301	NONE	ASHTech Z-XII3T	RT820015201	1L01-1D04	GPS
2008-09-22 09:00:00 - 2008-10-02 09:30:00	TRM55971.00	30765568	NONE	ASHTech Z-XII3T	RT820015201	1L01-1D04	GPS
2008-10-02 09:30:00 - 2008-10-20 06:30:00	TRM55971.00	30765568	TZGD	ASHTech Z-XII3T	RT820015201	1L01-1D04	GPS
2008-10-20 06:30:00 - 2010-06-28 13:55:00	ASH701945C_M	CR620002301	NONE	ASHTech Z-XII3T	RT820015201	1L01-1D04	GPS
2010-06-28 13:55:00 - 2011-03-07 12:00:00	ASH701945C_M	CR620002301	NONE	SEPT POLARX3ETR	2001060	1.4.0	GPS+GLO
2011-03-07 12:00:00 - 2012-01-31 14:00:00	JAVRINGANT_DM	00464	NONE	SEPT POLARX3ETR	2001060	1.4.0	GPS+GLO
2012-01-31 14:00:00 - 2012-03-05 16:00:00	JAVRINGANT_DM	00464	NONE	SEPT POLARX4TR	3001376	2.3.3	GPS+GLO+GAL
2012-03-05 16:00:00 - 2012-09-24 11:45:00	JAVRINGANT_DM	00464	NONE	SEPT POLARX4TR	3001376	2.3-tst120216r34012	GPS+GLO+GAL
2012-09-24 11:45:00 - 2013-02-04 13:55:00	JAVRINGANT_DM	00464	NONE	SEPT POLARX4TR	3001376	2.3.4	GPS+GLO+GAL
2013-02-04 13:55:00 - 2014-03-17 10:40:00	JAVRINGANT_DM	00464	NONE	SEPT POLARX4TR	3001376	2.3.4	GPS+GLO+GAL+BDS
2014-03-17 10:40:00 - 2015-09-07 14:50:00	JAVRINGANT_DM	00464	NONE	SEPT POLARX4TR	3001376	2.5.2	GPS+GLO+GAL+BDS
2015-09-07 14:50:00 - 2016-10-24 09:00:00	JAVRINGANT_DM	00464	NONE	SEPT POLARX4TR	3001376	2.9.0	GPS+GLO+GAL+BDS
2016-10-24 09:00:00 - 2017-01-03 12:15:00	JAVRINGANT_DM	00464	NONE	SEPT POLARX4TR	3001376	2.9.5	GPS+GLO+GAL+BDS
2017-01-03 12:15:00 - 2018-11-12 08:31:00	JAVRINGANT_DM	00464	NONE	SEPT POLARX4TR	3001376	2.9.6	GPS+GLO+GAL+BDS
2018-11-12 08:31:00 - 2020-02-25 13:30:00	JAVRINGANT_DM	00464	NONE	SEPT POLARX4TR	3001376	2.9.6-extref3	GPS+GLO+GAL+BDS
2020-02-25 13:30:00 - 2021-02-04 09:40:00	JAVRINGANT_DM	00464	NONE	SEPT POLARX5TR	3057609	5.3.2	GPS+GLO+GAL+BDS+QZSS+IRNSS+SBAS
2021-02-04 09:40:00 - 2021-04-20 08:33:00	JAVRINGANT_DM	00464	NONE	SEPT POLARX5TR	3057609	5.4.0	GPS+GLO+GAL+BDS+QZSS+IRNSS+SBAS

Instruments session view

2. List view

Instruments list view

Other instruments

3. Other instrumentation

Antennas	Receivers	Radomes
Antenna type: ASH701945E_M Serial number: CR620023301 Antenna Reference Point: BPA Marker ARP up ecc: 0.1266 Marker ARP north ecc: 0.001 Marker ARP east ecc: 0 Alignment from true n: 0 Antenna cable type: ANDREW heliax LDF2-50A Antenna cable length: 60 Date from: 2006-07-07 00:00:00 Date to: 2008-03-19 08:45:00 Comment:	Receiver type: SEPT POLARX2 Serial number: 1436 Firmware version: 2.6.2 Elevation cutoff setting: 0 Temperature stabilization: 0 Input frequency: 10.0 Data sampling interval: Satellite systems: GPS Date from: 2006-07-07 00:00:00 Date to: 2008-02-14 09:00:00 Comment: hardware replacement of receiver with SN 1128, same receiver, but different serial number (now 1436)	Radome type: NONE Description: Date from: 2006-07-07 00:00:00 Date to: 2008-03-19 08:45:00 Comment:
Antenna type: ASH701945C_M Serial number: CR620002301 Antenna Reference Point: BPA Marker ARP up ecc: 0.1266 Marker ARP north ecc: 0.001 Marker ARP east ecc: 0 Alignment from true n: 0 Antenna cable type: ANDREW heliax LDF2-50A Antenna cable length: 60 Date from: 2008-03-19 09:00:00 Date to: 2008-06-17 09:00:00 Comment:	Receiver type: ASHTECH Z-XII3T Serial number: RT820015201 Firmware version: 1L01-1D04 Elevation cutoff setting: 0 Temperature stabilization: 0 Input frequency: 10.0 Data sampling interval: Satellite systems: GPS Date from: 2008-02-15 08:00:00 Date to: 2010-06-28 13:55:00 Comment:	Radome type: NONE Description: Date from: 2008-06-17 09:00:00 Date to: 2008-09-02 13:00:00 Comment:
		Radome type: NONE Description: Date from: 2008-09-02 13:00:00 Date to: 2008-09-22 09:00:00 Comment:

Data availability

Quality Check

DOI & Licence

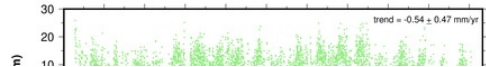
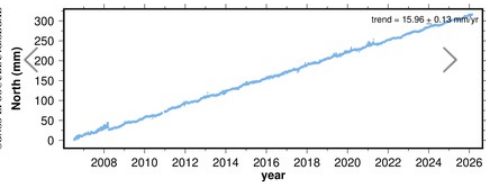
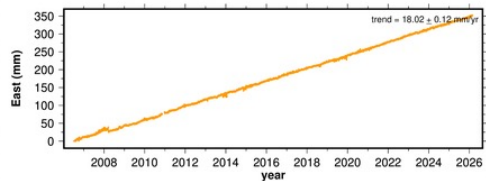
Station Pictures



Time Series

UGA-CNRS
site BRUX00BEL

Reference Frame: IGS20



1. Data availability tab



Data availability

2. Date selection

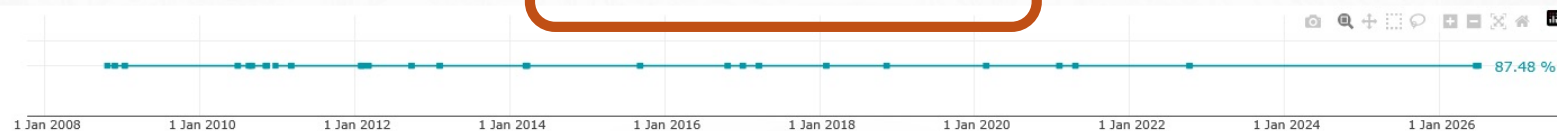
Data available between dates

Range date start

2006.07.07

Range date end

2026.07.06

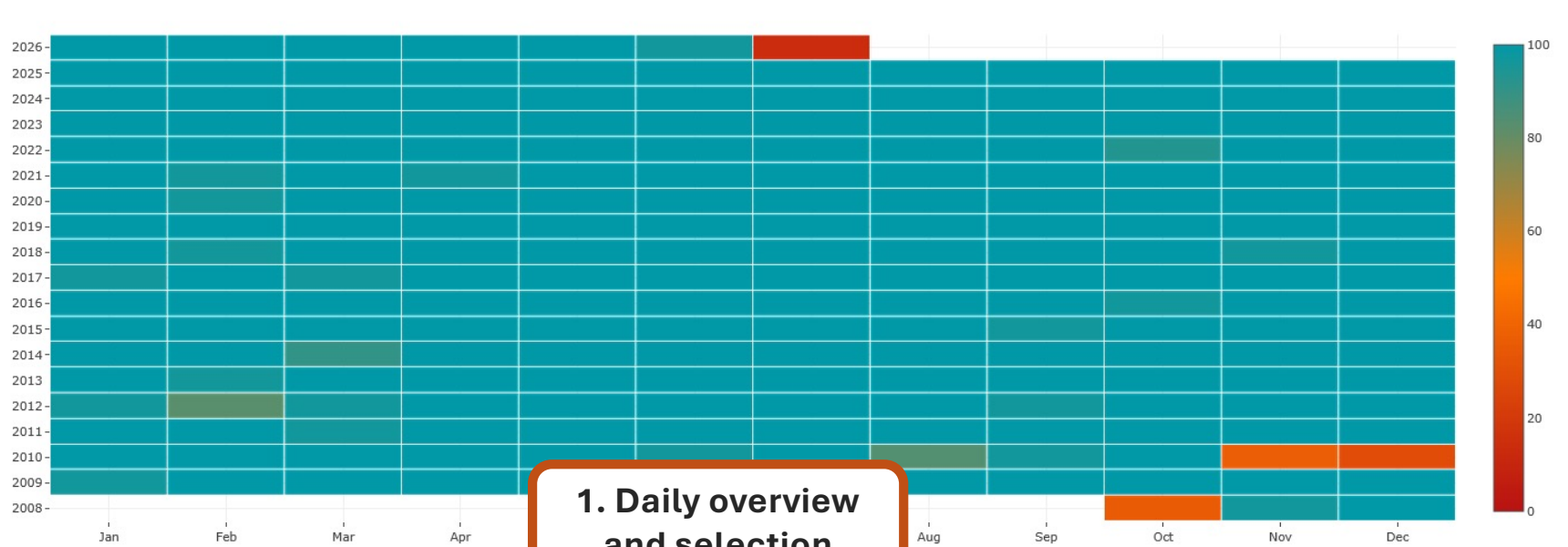


Data availability

QC Status

3. Monthly overview





1. Daily overview and selection

May

			01	02	03	04
05	06	07	08	09	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

DOWNLOAD

2. Download

Download

You can download the files by clicking on the following link. Note that you need to ensure that your browser allows the opening of several popups (see this [link](#) for firefox, and this [link](#) for chrome).

1. Direct Download: [Download](#)

The following alternatives can still be used :

1. The python command line client: [Click here \(Docum](#)

2. A script to download the files with wget: [Click here](#)

3. A list of the file URL to download the file with any so

Read this if you want to download several files

 DOI & Licence

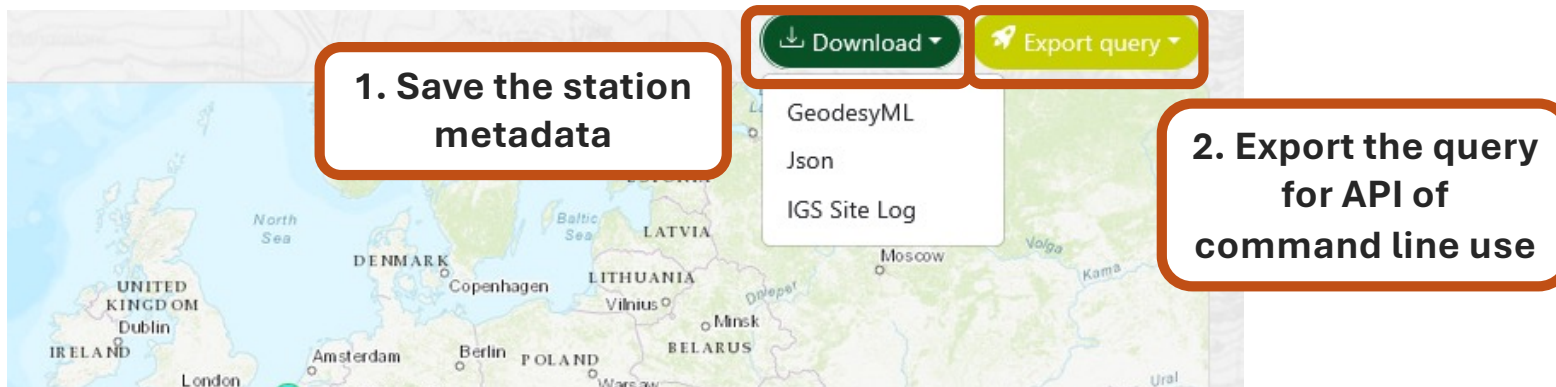
DOI & License

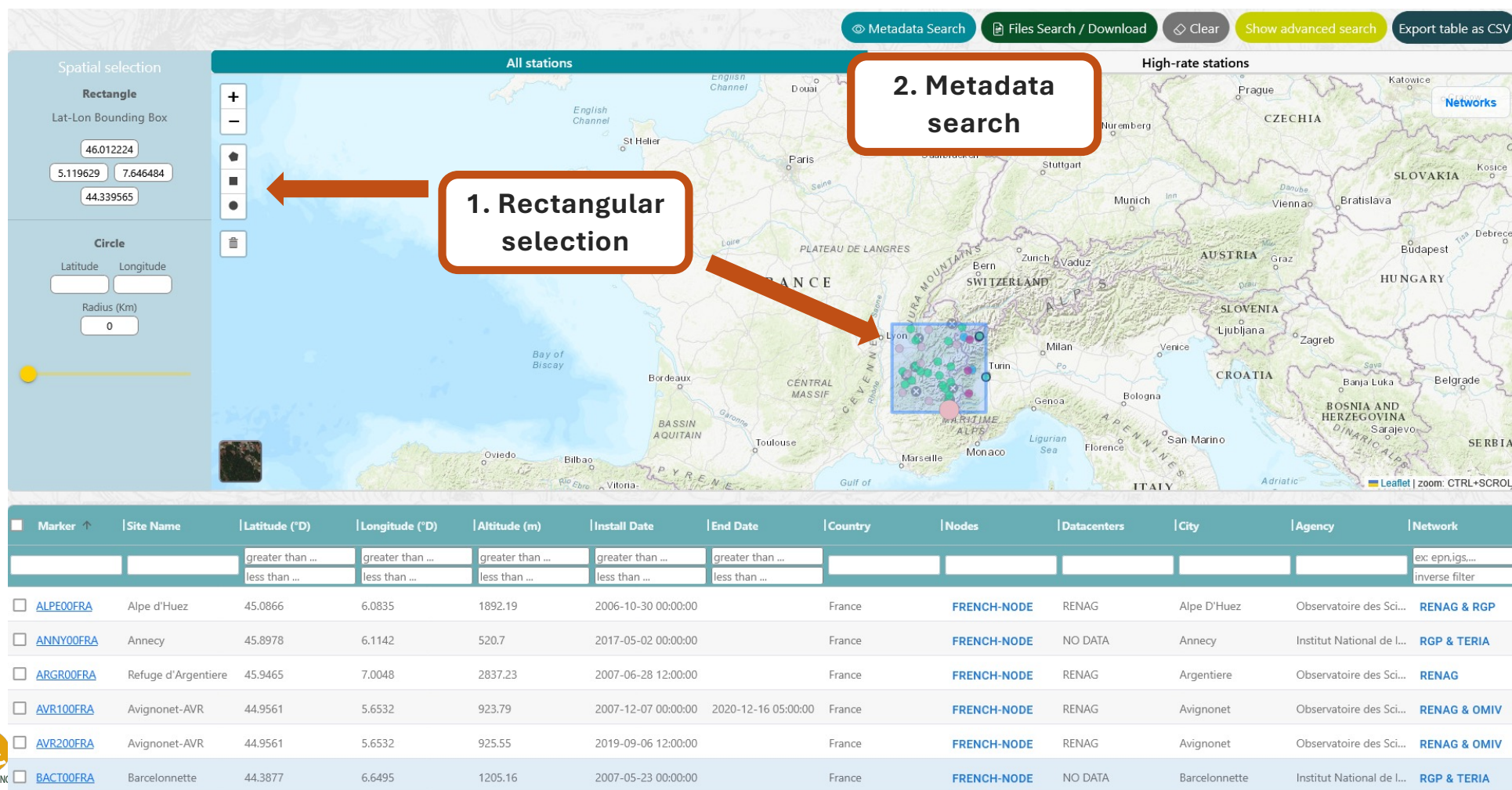
Station Pictures

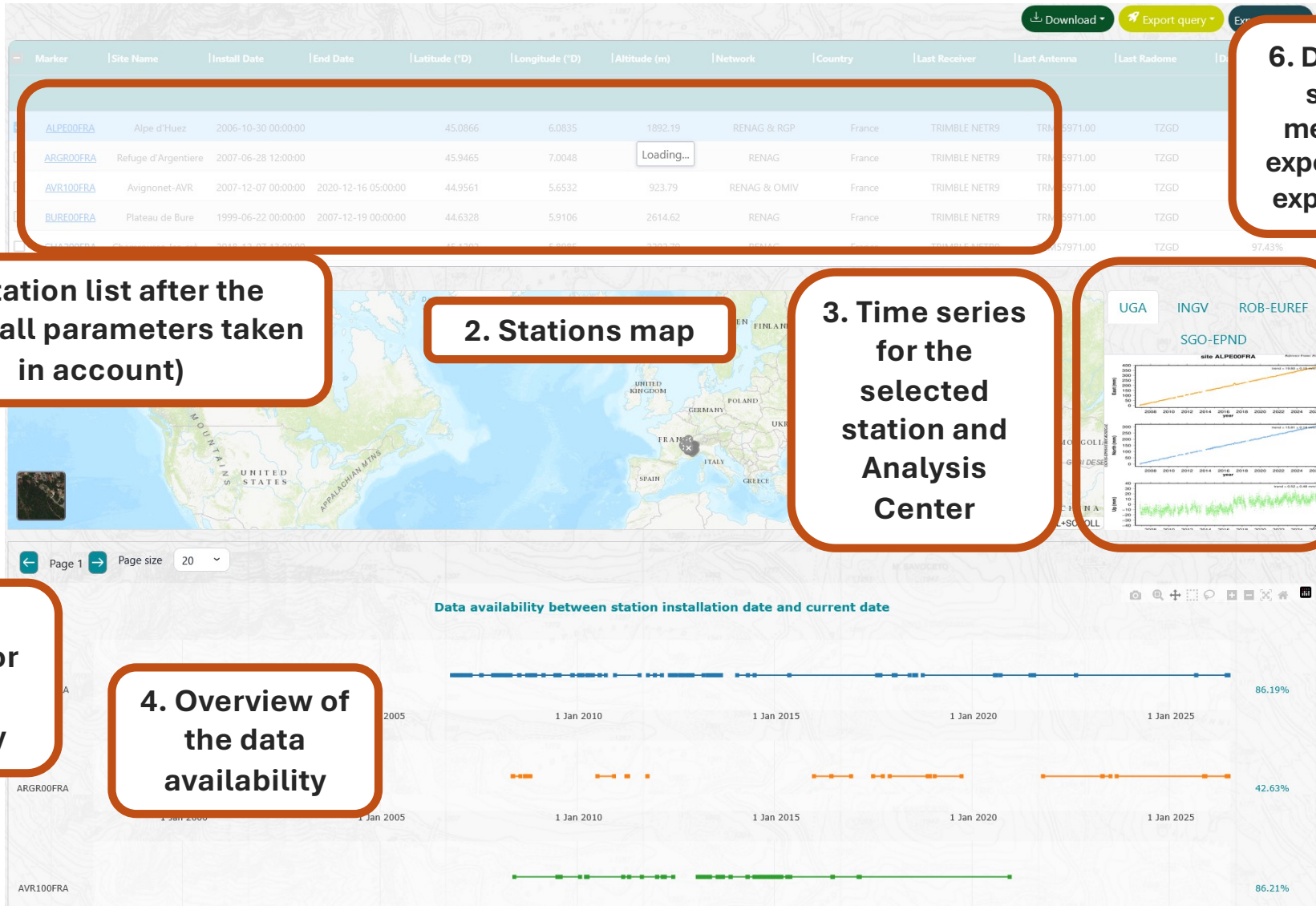
DOI : <https://doi.org/10.24414/ROB-GNSS-BRUX00BEL>

License : [CC-BY-4.0](#)

**1. DOI of the
station or the
station network &
data license**







6. Download station metadata, export query, export table

1. Station list after the query (all parameters taken in account)

2. Stations map

3. Time series for the selected station and Analysis Center

5. Page selection for data availability

4. Overview of the data availability

The Web Interface

Discover and download files and file metadata

<https://gnssdata-epos.oca.eu/>

Files Metadata & Download – BRUX00BEL

h 2026

Spatial selection

Rectangle

Lat-Lon Bounding Box

North

West

East

South

Circle

Latitude

Longitude

Radius (Km)

0

+

-

🏠

📍

🗑️

All stations

2. Click on the File Search / Download button



Metadata Search

Files Search / Download

Clear

Show advanced search

Export table as CSV

1. Type the station code

Marker

Brux00bel

greater than ...

greater than ...

greater than ...

greater than ...

greater than ...

Country

Nodes

Datacenters

City

Agency

Network

ex: epn.igs...

inverse filter

Marker	Latitude	Longitude	Altitude (m)	Install Date	End Date	Country	Nodes	Datacenters	City	Agency	Network
☐ BRUX00BEL	50.7981	4.3586	158.26	2006-07-07 00:00:00		Belgium	BELGIAN-NODE & R	Belgian DC, EPN HDC	Brussels	Royal Observatory o...	EPN & ROB_GNSS

1. File name & selection

3. Observation date, date of publication, last modification

4. File type

Download

Export query

Export CSV file

2. File Data Center

5. File information (size in byte, MD5, Quality control status – always > 0 at DGW)

	File Name	Data Center Acron...	Reference Date	Published Date	Revision Date	File Type	Sampling Wi...	Sampling Fr...	File Size	M D5 Check Sum	Status
☐	BRUX2500.13D.Z	EPN HDC	2013-09-07 00:00:00	2020-04-11 01:41:39	2014-01-02 15:05:49	RINEX2	24h	30s	861287	994acaa6002faa4a76008c0aa4391caf	1
☐	BRUX2490.13D.Z	EPN HDC	2013-09-06 00:00:00	2020-04-11 01:41:30	2014-01-02 15:10:05	RINEX2	24h	30s	862755	36774eb8927e8cfbeb92947e9ec113fa	1
☐	BRUX2480.13D.Z	EPN HDC	2013-09-05 00:00:00	2020-04-11 01:41:20	2014-01-02 15:14:28	RINEX2	24h	30s	862755	36774eb8927e8cfbeb92947e9ec113fa	1
☐	BRUX2470.13D.Z	EPN HDC	2013-09-04 00:00:00	2020-04-11 01:41:11	2014-01-02 15:18:57	RINEX2	24h	30s	862755	36774eb8927e8cfbeb92947e9ec113fa	1
☐	BRUX2460.13D.Z	EPN HDC	2013-09-03 00:00:00	2020-04-11 01:41:01	2014-01-02 15:23:26	RINEX2	24h	30s	862755	36774eb8927e8cfbeb92947e9ec113fa	1
☐	BRUX2450.13D.Z	EPN HDC	2013-09-02 00:00:00	2020-04-11 01:40:52	2014-01-02 15:27:59	RINEX2	24h	30s	862755	36774eb8927e8cfbeb92947e9ec113fa	1
☐	BRUX2440.13D.Z	EPN HDC	2013-09-01 00:00:00	2020-04-11 01:40:43	2014-01-02 15:32:35	RINEX2	24h	30s	850141	f5b3f1425dd5447b573ff31eaa574a73	1
☐	BRUX2430.13D.Z	EPN HDC	2013-08-31 00:00:00	2020-04-11 01:40:33	2014-01-02 15:37:17	RINEX2	24h	30s	861329	88a30eda5fec7147721107504bbf1591	1
☐	BRUX2420.13D.Z	EPN HDC	2013-08-30 00:00:00	2020-04-11 01:40:24	2014-01-02 15:41:52	RINEX2	24h	30s	866578	4a19293a86c675b3620159dfdf1dc734	1
☐	BRUX2410.13D.Z	EPN HDC	2013-08-29 00:00:00	2020-04-11 01:40:14	2014-01-02 15:46:42	RINEX2	24h	30s	857811	e3cdd9988417b0ebadda3ed11bdfb502	1
☐	BRUX2400.13D.Z	EPN HDC	2013-08-28 00:00:00	2020-04-11 01:40:04	2014-01-02 15:51:21	RINEX2	24h	30s	859315	cf0de7a1efcfc32c67f928af485ca12c	1
☐	BRUX2390.13D.Z	EPN HDC	2013-08-27 00:00:00	2020-04-11 01:39:55	2014-01-02 15:55:56	RINEX2	24h	30s	854317	04351487c67cdb5b1dd2cefbfa253f017	1
☐	BRUX2380.13D.Z	EPN HDC	2013-08-26 00:00:00	2020-04-11 01:39:46	2014-01-02 16:00:24	RINEX2	24h	30s	849865	02f4bd503df88488ee295ac64112731e	1
☐	BRUX2370.13D.Z	EPN HDC	2013-08-25 00:00:00	2020-04-11 01:39:37	2014-01-02 16:04:58	RINEX2	24h	30s	853383	2db053e2a57c28e9d468720fd1b54f2b	1
☐	BRUX2360.13D.Z	EPN HDC	2013-08-24 00:00:00	2020-04-11 01:39:28	2014-01-02 16:09:25	RINEX2	24h	30s	848999	7b7e88dfc4548bc924522b92363031fb	1

Total Files: 12756

1. Download the file metadata or the RINEX:

- File metadata as json
- Wget script to the files
- List of file URL
- Download the selected files

2. Export the query for API or command line use

3. Export the table

The screenshot shows a web interface with a 'Download' button (green) and an 'Export query' button (yellow). Below the 'Download' button is a dropdown menu with the following options: 'Json', 'Wget Unix Script', 'File list', and 'Download selected'. To the right of the dropdown is a table with columns 'Check Sum' and 'Status'. The table contains three rows of data:

Check Sum	Status
de0490da8d58c4e76d1cfd2...	1
5b7e33e4e6ee007b96f197...	1
37434a1f5fb50f6b87ded3cbbe3ad...	1

Download

You can download the files by clicking on the following link. Note that you need to ensure that your browser allows the opening of several popups (see this [link](#) for firefox, and this [link](#) for chrome).

1. Direct Download: [Download](#)

The following alternatives can still be used :

1. The python command line client: [Click here \(Docum](#)
2. A script to download the files with wget: [Click here](#)
3. A list of the file URL to download the file with any so

Read this if you want to download several files

The Command Line Interface

Best suited for:

- Routine processing/download
- Massive download
- Integrating with your workflow
- Getting high-rate data (for now)
- Getting ready-made references and citations for the data of the query

```
pyglass uv run .\pyglass.py -h
usage: pyglass.py [-h] [--version]
                  {stations,files,stations-hr,files-hr,citation} ...

Command line client for a GLASS-API server. Note that space is used as
delimiter.

positional arguments:
  {stations,files,stations-hr,files-hr,citation}
                                Choose between station metadata, file metadata and
                                citation commands.
  stations                Query station metadata.
  files                   Query file metadata.
  citation                Run a metadata query and create
                                DOI/provider/license reference and citation files.
  stations-hr             Query station metadata for stations with high-rate
                                RINEX files.
  files-hr                Query high-rate RINEX file metadata.

options:
  -h, --help                show this help message and exit
  --version                 pyglass.py version : 4.0RC
```

<https://gitlab.com/gpseurope/pyglass/-/releases> or

The screenshot shows the EPOS-GNSS DATA GATEWAY interface. The top navigation bar includes links for Documentation, Command Line Client (highlighted with an orange box and a '1'), API, Product Portal, M3G, EPOS logo, and Feedback. Below the navigation bar, there are search and download buttons: Metadata Search, Files Search / Download, Clear, Show advanced search, and Export table as CSV. The main content area features a map of Europe with station locations marked. On the left, there are spatial selection tools for Rectangle and Circle. A modal dialog titled "Download the command line client" is centered on the screen, containing instructions and a link to download pyglass. The dialog has a 'Close' button. At the bottom of the dialog, there is a '2' in an orange box and a link to "Download pyglass here". Below the dialog, a table of station data is visible, with the first row showing station ID AAER00FRA, name Aéroport des Ardennes, and various coordinates and dates.

EPOS-GNSS DATA GATEWAY

Documentation **Command Line Client** API Product Portal M3G EPOS Feedback

Metadata Search Files Search / Download Clear Show advanced search Export table as CSV

1

Download the command line client

The python command line client allows to mass download RINEX files and station metadata (in JSON and GeodesyML formats).

For example, to download RINEX files from the station AGDE00FRA, between the dates 2020-01-01 and 2020-01-10 :

```
./pyglass.py files -m AGDE -dds 2020-01-01 -dde 2020-01-10 -o download --download-dir ./RINEX
```

Please note 2 important points:

1. - The command line client needs python 3.10+ to run
2. - The clients (both command line and web) can only download RINEX files which have been indexed in the database and in the case of the EPOS-GNSS Data Gateway, validated at the node

2 [Download pyglass here](#)

Close

AAER00FRA Aéroport des Ardennes 49.7825 4.6426 199.27 2025-01-30 16:00:00 France FRENCH-NODE & R EPN HDC Charleville-Mezieres Institut National de l'Environnement et de la Santé Publique RGP & EPN

v4.0-pre

Edit release

Jean-Luc Menut

Created 15 seconds ago

44f6ff1e

v4.0-pre

Release notes

Pre-release of the version 4.0. Massive changes documented for now only in the Geoinquire Training documents.

To use:

- Download the source code of the release and unzip, or git clone the tag
- install the libraries, either with pip (pip install -r requirements.txt) or uv (uv sync)
- read the README.md

Assets 4

Source code (zip) [Download](#)

Source code (tar.gz) [Download](#)

Source code (tar.bz2) [Download](#)

Source code (tar) [Download](#)

Unzip

Evidence collection

v4.0-pre-evidences-22220750.json [Download](#) ... 006659d6 [Copy](#)

Collected 15 seconds ago

pyglass-v4.0RC

ls

Directory: C:\Users\menut\Downloads\pyglass-v4.0RC\pyglass-v4.0RC

Mode	LastWriteTime	Length	Name
d----	07/07/2026 22:24		testing
-a---	15/05/2026 15:19	1143	.bumpversion.toml
-a---	15/05/2026 15:19	292	.editorconfig
-a---	15/05/2026 15:19	193	.gitignore
-a---	15/05/2026 15:19	2107	.gitlab-ci.yml
-a---	15/05/2026 15:19	2805	CHANGELOG.md
-a---	15/05/2026 15:19	7796	LICENSE
-a---	15/05/2026 15:19	917	nuitka.md
-a---	15/05/2026 15:19	906	pyglass.ini
-a---	15/05/2026 15:19	42921	pyglass.py
-a---	15/05/2026 15:19	5146	README_options_usage.md
-a---	15/05/2026 15:19	6055	README.md
-a---	15/05/2026 15:19	43	requirements.txt


```
pyglass-v4.0RC ls

Directory: C:\Users\menut\Downloads\pyglass-v4.0RC\pyglass-v4.0RC

Mode                LastWriteTime         Length Name
----                -
d----             07/07/2026    22:24          testing
-a---             15/05/2026    15:19        1143 .bumpversion.toml
-a---             15/05/2026    15:19        292 .editorconfig
-a---             15/05/2026    15:19        193 .gitignore
-a---             15/05/2026    15:19       2107 .gitlab-ci.yml
-a---             15/05/2026    15:19       2805 CHANGELOG.md
-a---             15/05/2026    15:19       7796 LICENSE
-a---             15/05/2026    15:19        917 nuitka.md
-a---             15/05/2026    15:19        906 pyglass.ini
-a---             15/05/2026    15:19       42921 pyglass.py
-a---             15/05/2026    15:19       5146 README_options_usage.md
-a---             15/05/2026    15:19       6055 README.md
-a---             15/05/2026    15:19         43 requirements.txt
```

**Software &
READMEs**

```
pyglass uv run python .\pyglass.py -h
usage: pyglass.py [-h] [--version] {stations,files,stations-hr,files-hr,citation} ...

Command line client for a GLASS-API server. Note that space is used as delimiter.

positional arguments:
  {stations,files,stations-hr,files-hr,citation}
    stations            Station metadata
    files               Daily RINEX metadata & files
    citation            Reference and citation files.
    stations-hr         List of stations with high-rate data
    files-hr            High-rate RINEX metadata & files

options:
  -h, --help            show this help message and exit
  --version             pyglass.py version : 4.0RC
```

1. Integrated help

2. Subcommands

- stations
- files
- citation
- stations-hr
- files-hr

- Station metadata
- Daily RINEX metadata & files
- **Reference and citation for the stations and data of a query**
- List of stations with **high-rate** data
- **High-rate** RINEX metadata & files

```

menut > pyglass > uv run .\pyglass.py stations -h
usage: pyglass.py stations [-h] [-u URL] [-cf [CONFIG_FILE]] [-m MARKERS [MARKERS ...]]
                        [-sn SITE_NAME [SITE_NAME ...]]
                        [-rs RECT_SELECT [RECT_SELECT ...]]
                        [-cs CIRCLE_SELECT [CIRCLE_SELECT ...]]
                        [-ps POLYGON_SELECT [POLYGON_SELECT ...]] [-ltmin MIN_LAT]
                        [-ltmax MAX_LAT] [-lgmin MIN_LON] [-lgmax MAX_LON]
                        [-htmin MIN_ALT] [-htmax MAX_ALT] [-idmin INSTALLED_DATE_FROM]
                        [-idmax INSTALLED_DATE_TO] [-rdmin REMOVED_DATE_FROM]
                        [-rdmax REMOVED_DATE_TO] [-nw NETWORK [NETWORK ...]]
                        [-inw INVERSE_NETWORKS [INVERSE_NETWORKS ...]]
                        [-ag AGENCY [AGENCY ...]] [-ss SATELLITE [SATELLITE ...]]
                        [-rt RECEIVER_TYPE [RECEIVER_TYPE ...]]
                        [-at ANTENNA_TYPE [ANTENNA_TYPE ...]]
                        [-radt RADOME_TYPE [RADOME_TYPE ...]]
                        [-co COUNTRY [COUNTRY ...]] [-pv PROVINCE [PROVINCE ...]]
                        [-ct CITY [CITY ...]] [-dds DATA_DATE_START]
                        [-dde DATA_DATE_END] [-pds PUBLISHED_DATE_START]
                        [-pde PUBLISHED_DATE_END] [-da DATA_AVAILABILITY]
                        [-sw SAMPLING_WINDOW] [-sf SAMPLING_FREQUENCY] [-ft FILE_TYPE]
                        [-moy MINIMUM_OBSERVATION_YEARS] [-fs STATUS_FILES] [-o OUTPUT]

```

Integrated help for
every subcommand

```

pyglass > uv run .\pyglass.py stations-hr -h
usage: pyglass.py stations-hr [-h] [-u URL] [-cf [CONFIG_FILE]] [-o OUTPUT]
                        [--download-dir DOWNLOAD_DIR] [--print-url] [-nt N]
                        [-ltmin MIN_LAT] [-ltmax MAX_LAT] [-lgmin MIN_LON]
                        [-lgmax MAX_LON]

options:
  -h, --help            show this help message and exit
  -u URL                GLASS server url
  -cf [CONFIG_FILE]     Use a configuration file. Defalut path Path to configuration file
  -o OUTPUT              Output Format (cf: GLASS API document). Available short-json,
                        full-json, short-csv, full-csv,full-xml, station-list, rinex-list,
                        download, GeodesyML, SiteLog
  --download-dir DOWNLOAD_DIR
                        Select RINEX download directory
  --print-url            Only print URL
  -nt, --num-threads N  The number of threads to use for the download process. Default: 8.
  -ltmin MIN_LAT        Minimal latitude
  -ltmax MAX_LAT        Maximal latitude
  -lgmin MIN_LON        Minimal longitude
  -lgmax MAX_LON        Maximal longitude

```

```

pyglass > uv run .\pyglass.py files -h
usage: pyglass.py files [-h] [-u URL] [-cf [CONFIG_FILE]] [-m MARKERS [MARKERS ...]]
                        [-sn SITE_NAME [SITE_NAME ...]]
                        [-rs RECT_SELECT [RECT_SELECT ...]]
                        [-cs CIRCLE_SELECT [CIRCLE_SELECT ...]]
                        [-ps POLYGON_SELECT [POLYGON_SELECT ...]] [-ltmin MIN_LAT]
                        [-ltmax MAX_LAT] [-lgmin MIN_LON] [-lgmax MAX_LON]
                        [-htmin MIN_ALT] [-htmax MAX_ALT] [-idmin INSTALLED_DATE_FROM]
                        [-idmax INSTALLED_DATE_TO] [-rdmin REMOVED_DATE_FROM]
                        [-rdmax REMOVED_DATE_TO] [-nw NETWORK [NETWORK ...]]
                        [-inw INVERSE_NETWORKS [INVERSE_NETWORKS ...]]
                        [-ag AGENCY [AGENCY ...]] [-ss SATELLITE [SATELLITE ...]]
                        [-rt RECEIVER_TYPE [RECEIVER_TYPE ...]]
                        [-at ANTENNA_TYPE [ANTENNA_TYPE ...]]
                        [-radt RADOME_TYPE [RADOME_TYPE ...]] [-co COUNTRY [COUNTRY ...]]
                        [-pv PROVINCE [PROVINCE ...]] [-ct CITY [CITY ...]]
                        [-dds DATA_DATE_START] [-dde DATA_DATE_END]
                        [-pds PUBLISHED_DATE_START] [-pde PUBLISHED_DATE_END]
                        [-da DATA_AVAILABILITY] [-sw SAMPLING_WINDOW]
                        [-sf SAMPLING_FREQUENCY] [-ft FILE_TYPE]
                        [-moy MINIMUM_OBSERVATION_YEARS] [-fs STATUS_FILES] [-o OUTPUT]
                        [--download-dir DOWNLOAD_DIR] [--all] [--print-url]

```

```

pyglass > uv run .\pyglass.py citation -h
usage: pyglass.py citation [-h] [-u URL] [-cf [CONFIG_FILE]] [-m MARKERS [MARKERS ...]]
                        [-sn SITE_NAME [SITE_NAME ...]]
                        [-rs RECT_SELECT [RECT_SELECT ...]]
                        [-cs CIRCLE_SELECT [CIRCLE_SELECT ...]]
                        [-ps POLYGON_SELECT [POLYGON_SELECT ...]] [-ltmin MIN_LAT]
                        [-ltmax MAX_LAT] [-lgmin MIN_LON] [-lgmax MAX_LON]
                        [-htmin MIN_ALT] [-htmax MAX_ALT] [-idmin INSTALLED_DATE_FROM]
                        [-idmax INSTALLED_DATE_TO] [-rdmin REMOVED_DATE_FROM]
                        [-rdmax REMOVED_DATE_TO] [-nw NETWORK [NETWORK ...]]
                        [-inw INVERSE_NETWORKS [INVERSE_NETWORKS ...]]
                        [-ag AGENCY [AGENCY ...]] [-ss SATELLITE [SATELLITE ...]]
                        [-rt RECEIVER_TYPE [RECEIVER_TYPE ...]]
                        [-at ANTENNA_TYPE [ANTENNA_TYPE ...]]
                        [-radt RADOME_TYPE [RADOME_TYPE ...]]
                        [-co COUNTRY [COUNTRY ...]] [-pv PROVINCE [PROVINCE ...]]
                        [-ct CITY [CITY ...]] [-dds DATA_DATE_START]
                        [-dde DATA_DATE_END] [-pds PUBLISHED_DATE_START]
                        [-pde PUBLISHED_DATE_END] [-da DATA_AVAILABILITY]
                        [-sw SAMPLING_WINDOW] [-sf SAMPLING_FREQUENCY] [-ft FILE_TYPE]
                        [-moy MINIMUM_OBSERVATION_YEARS] [-fs STATUS_FILES] [-o OUTPUT]
                        [--download-dir DOWNLOAD_DIR] [--all] [--print-url]

```

1. Download the IGS Site Log for the stations in a specific area in the alps with at least 10 years of data

```
pyglass uv run pyglass.py stations -ltmin 44.4 -ltmax 46.8 -lgmin 5.36 -lgmax 8.9 -moy 10 -o SiteLog
```

2. References for citing the data (markdown & json)

07/07/2026	02:24	7366	README.md
07/07/2026	23:00	25605	references_doi_providers_license_2026-07-07_22-58-55.json
07/07/2026	23:00	6489	references_doi_providers_license_2026-07-07_22-58-55.md

3. How to cite the data

07/07/2026	23:00	855	citation_2026-07-07_22-58-55.md
07/07/2026	22:59	14476	crsn00ita.log
07/07/2026	22:59	14187	cuor00ita.log
07/07/2026	22:59	14472	doms00ita.log
07/07/2026	22:59	12229	fclz00fra.log
07/07/2026	22:59	14252	fied00fra.log

4. IGS Site Logs of the stations

1. Download yesterday RINEX of the stations in France

```
pyglass uv run pyglass.py files -co france -dds 2026-07-06 -dde 2026-07-06 -o download -  
-download-dir Training  
nb of rinex files: 88  
Total size: 208.893045 Mb  
Do you want to continue ? (y/n)  
|
```

2. Check and
confirmation before
download

```
Download of SOPH00FRA_R_20261870000_01D_30S_M0.crx.gz complete.  
Downloading FILF00FRA_R_20261870000_01D_30S_M0.crx.gz... https://renag.resif.fr/pub/rinex3/2  
026/187/FILF00FRA_R_20261870000_01D_30S_M0.crx.gz  
Download of MTP200FRA_R_20261870000_01D_30S_M0.crx.gz complete.  
Downloading AIGL00FRA_R_20261870000_01D_30S_M0.crx.gz... https://renag.resif.fr/pub/rinex3/2  
026/187/AIGL00FRA_R_20261870000_01D_30S_M0.crx.gz
```

2. Parallel downloads (configurable, up to 8
by default)

```
MD5 checksum verified successfully for Training\RENAG\2026\187\OPME00FRA_R_20261870000_01D_30S_M0.crx.gz  
MD5 checksum verified successfully for Training\RENAG\2026\187\FILF00FRA_R_20261870000_01D_30S_M0.crx.gz
```

3. Automatic MD5 Checksum at the end of
the download

Geo-Inquire - EPOS-ONCS Data Gateway User Training, July 16th 2026

4. How to cite the data & file metadata

```
974 citation_2026-07-07_23-20-38.md
63381 downloaded_rinex_metadata_2026-07-07_23-20-38.json
```

5. References for citing the data (markdown & json)

```
57812 references_doi_providers_license_2026-07-07_23-20-38.json
15315 references_doi_providers_license_2026-07-07_23-20-38.md
```

```
ls
C:\Users\menut\Dev\EPOS\pyglass2\pyglass\Training

LastWriteTime      Length Name
-----
07/07/2026      23:24
07/07/2026      23:24
```

5. The RINEX files are downloaded in Training/[DATA_CENTER_ACRONYM]/[YYYY]/[DOY]

```
pyglass2\pyglass\Training\SONEL

Length Name
-----
2026

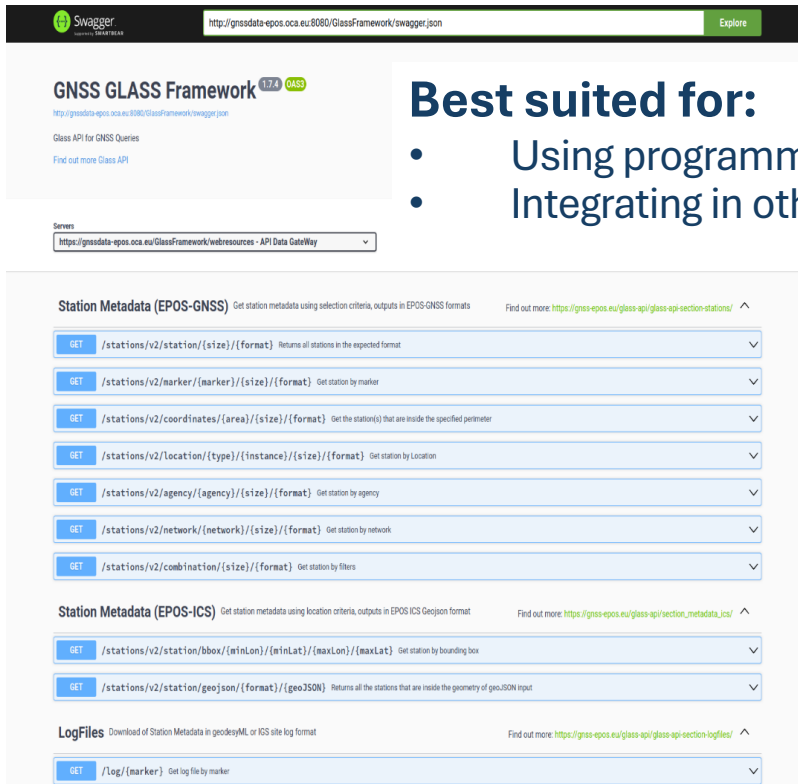
pyglass2\pyglass\Training\SONEL\2026

Length Name
-----
187

pyglass2\pyglass\Training\SONEL\2026\187

Length Name
-----
2950257 BRST00FRA_R_20261870000_01D_30S_MO.crx.gz
2028630 CHTG00FRA_R_20261870000_01D_30S_MO.crx.gz
2017265 DIPP00FRA_R_20261870000_01D_30S_MO.crx.gz
2006221 DUNQ00FRA_R_20261870000_01D_30S_MO.crx.gz
3536626 GUIP00FRA_R_20261870000_01D_30S_MO.crx.gz
```

The REST API & EPOS Multi-data Portal (ICS Portal)



The screenshot shows the Swagger UI for the GNSS GLASS Framework API. The top bar includes the Swagger logo and the URL <http://gnssdata-epos.oca.eu:8080/GlassFramework/swagger.json>. The main content area is titled "GNSS GLASS Framework" and lists several endpoints under the "Station Metadata (EPOS-GNSS)" section. The endpoints are:

- `GET /stations/v2/station/{size}/{format}` Returns all stations in the expected format
- `GET /stations/v2/marker/{marker}/{size}/{format}` Get station by marker
- `GET /stations/v2/coordinates/{area}/{size}/{format}` Get the station(s) that are inside the specified perimeter
- `GET /stations/v2/location/{type}/{instance}/{size}/{format}` Get station by Location
- `GET /stations/v2/agency/{agency}/{size}/{format}` Get station by agency
- `GET /stations/v2/network/{network}/{size}/{format}` Get station by network
- `GET /stations/v2/combination/{size}/{format}` Get station by filters

Below this section, there is a "Station Metadata (EPOS-ICS)" section with endpoints:

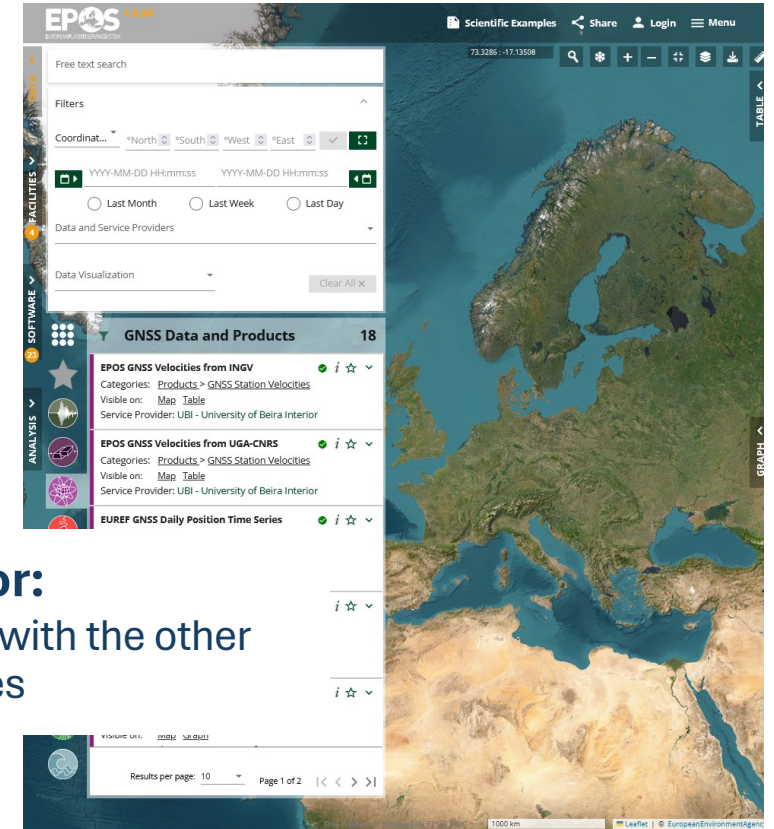
- `GET /stations/v2/station/bbox/{minLon}/{minLat}/{maxLon}/{maxLat}` Get station by bounding box
- `GET /stations/v2/station/geojson/{format}/{geo350M}` Returns all the stations that are inside the geometry of geoJSON input

At the bottom, there is a "LogFiles" section with the endpoint:

- `GET /log/{marker}` Get log file by marker

Best suited for:

- Using programmatically
- Integrating in other programs



The screenshot shows the EPOS Multi-data Portal (ICS Portal) interface. The top bar includes the EPOS logo and navigation links for "Scientific Examples", "Share", "Login", and "Menu". The main content area is titled "GNSS Data and Products" and lists several data products:

- EPOS GNSS Velocities from INGV**
 - Categories: Products > GNSS Station Velocities
 - Visible on: Map Table
 - Service Provider: UBI - University of Beira Interior
- EPOS GNSS Velocities from UGA-CNRS**
 - Categories: Products > GNSS Station Velocities
 - Visible on: Map Table
 - Service Provider: UBI - University of Beira Interior
- EUREF GNSS Daily Position Time Series**

The interface also features a search bar, filters, and a map view of Europe. The bottom of the page shows pagination information: "Results per page: 10", "Page 1 of 2", and navigation arrows.

Best suited for:

- Integrating with the other ICS services

Geo-Inquire - EPOS-GNSS Data Gateway User Training, July 10th 2026

The REST API

- It allows to **programmatically** search and download the metadata without using one of the client.
- It is the **best way** to integrate the DGW with another computer program

Examples are in the training documentation

Swagger
Supported by SMARTBEAR

http://gnssdata-epos.oca.eu:8080/GlassFramework/swagger.json Explore

GNSS GLASS Framework ^{1.7.4} ^{OAS3}
<http://gnssdata-epos.oca.eu:8080/GlassFramework/swagger.json>
 Glass API for GNSS Queries
[Find out more Glass API](#)

https://gnssdata-epos.oca.eu/GlassFramework/swagger.html

Servers
<https://gnssdata-epos.oca.eu/GlassFramework/webresources - API Data GateWay>

Station Metadata (EPOS-GNSS) Get station metadata using selection criteria, outputs in EPOS-GNSS formats Find out more: <https://gnss-epos.eu/glass-api/glass-api-section-stations/>

- GET `/stations/v2/station/{size}/{format}` Returns all stations in the expected format
- GET `/stations/v2/marker/{marker}/{size}/{format}` Get station by marker
- GET `/stations/v2/coordinates/{area}/{size}/{format}` Get the station(s) that are inside the specified perimeter
- GET `/stations/v2/location/{type}/{instance}/{size}/{format}` Get station by Location
- GET `/stations/v2/agency/{agency}/{size}/{format}` Get station by agency
- GET `/stations/v2/network/{network}/{size}/{format}` Get station by network
- GET `/stations/v2/combination/{size}/{format}` Get station by filters

Station Metadata (EPOS-ICS) Get station metadata using location criteria, outputs in EPOS ICS Geojson format Find out more: https://gnss-epos.eu/glass-api/section_metadata_ics/

- GET `/stations/v2/station/bbox/{minLon}/{minLat}/{maxLon}/{maxLat}` Get station by bounding box
- GET `/stations/v2/station/geojson/{format}/{geoJSON}` Returns all the stations that are inside the geometry of geoJSON input

LogFiles Download of Station Metadata in geodesyML or IGS site log format Find out more: <https://gnss-epos.eu/glass-api/glass-api-section-logfiles/>

- GET `/log/{marker}` Get log file by marker

ICS Portal

<https://www.ics-c.epos-eu.org/>

- 1) choose “GNSS Data and Product”
- 2) click on the green filter to choose the Data Services (5)

Examples are in the training documentation

The screenshot shows the EPOS ICS Portal interface. At the top, there is a search bar and a 'Filters' section. Below the filters, there is a list of data services with their respective counts. The 'GNSS Data and Products' service is highlighted with a green box, showing a count of 16. Other services include 'All data and services' (285), 'Seismology' (76), 'Near Fault Observatories' (40), 'Volcano Observations' (38), 'Satellite Data' (9), 'Geomagnetic Observations' (15), 'Anthropogenic Hazards' (52), 'Geological Information and Modeling' (8), 'Multi-scale Laboratories' (6), 'Tsunami' (25), and 'Favourites' (0).

This screenshot shows the 'GNSS Data and Products' filter page. The filter is set to 'Data' and 'Products'. The page lists various data services, including 'EPOS GNSS Velocities from INGV', 'EPOS GNSS Velocities from UGA-CNRS', 'EUREF GNSS Daily Position Time Series from ROB-EUREF', 'EPOS GNSS Daily Position Time Series from INGV', and 'EPOS GNSS Daily Position Time Series from UGA-CNRS'. Each service has a status indicator and a link to view the data.

This screenshot shows the 'GNSS Data and Products' list. The list includes 'GNSS Stations with Highrate RINEX Data' and 'GNSS Stations with RINEX Data'. Each item has a status indicator and a link to view the data. The 'GNSS Stations with Highrate RINEX Data' item is highlighted with a green box.

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

5

GNSS Data and Products

18

▼ All Categories (18)

▶ ☒ Data (5)

☐ Products (12)

☐ GNSS Station Information (1)

GNSS Stations with RINEX Data

Categories: [Data > GNSS RINEX data](#)

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

Service Provider: OCA - Observatoire de la Côte d'Azur

Advanced search filters (1 of 1)

Coordinates: 90

↺

 -90

↺

 -180

↺

 180

↺

☑

Download

Set to defaults

Apply

List RINEX Files search parameters

Service Provider: OCA - Observatoire de la Côte d'Azur

Results per page: 10 Page 1 of 1

Scientific Examples

Share

Login

Menu

77.03994 : 69.78516

+

−

↺

↻

⌵

⌶

GNSS Stations with RINEX Data

4. Table configuration

Search table rows

Select Columns: 8/16

GNSS Station ID, GNSS St...

Expand all ☐

Page number: 1

Results per page: 5

Page 1 of 417

Total Results: 2084

	GNSS Station ID	GNSS Station Marker	Country	Installed at	Data Providers	Networks	City	Altitude
⚙	AGDE00FRA	AGDE	France	2006-09-04 12:00:00	Epos-France RENAG CNR...	RENAG & RGP	Cap D'Agde - Agde	65.77
⚙	AIGL00FRA	AIGL	France	2001-06-01 00:00:00	Epos-France RENAG CNR...	RENAG & RGP	Valleraugue	1618.75
⚙	ALPE00FRA	ALPE	France	2006-10-30 00:00:00	Epos-France RENAG CNR...	RENAG & RGP	Alpe D'Huez	1892.19
⚙	ARGR00FRA	ARGR	France	2007-06-28 12:00:00	Epos-France RENAG CNR...	RENAG	Argentiere	2837.23
⚙	ARUF00FRA	ARUF	France	2014-03-12 00:00:00	Observatoire Midi-Pyrén...	RENAG & RGP	Arudy	481.99

3. Table of station metadata

GNSS Stations with RINEX Data

View on Table

GNSS Station ID

CATU00ESP

Country

Spain

City

Castuera

Latitude

38.7304

Longitude

-5.5388

Altitude

538.64

Data Availability

https://gnssdata-epos.oca.eu/data_availability/plot_png/CATU00ESP

Installed at

2008-10-03 12:00:00

Data Providers

Junta de Extremadura

Networks

REP

1 of 7

1. Service selection : stations with (daily) data

2. Station map & information popup

The screenshot shows the EPOS 1.0.58 POS-GNSS Data Gateway interface. The left sidebar contains a 'GNSS Data and Products' section with a tree view showing 'Data (5)' and 'Products (12)'. The main panel displays search results for 'GNSS RINEX data' from 'OCA - Observatoire de la Côte d'Azur'. A modal window titled 'Metadata and URL of RINEX files' is open, showing a table of files available for download. The table has columns for 'File Name', 'File Format', 'Download', and 'Copy URL'. The files listed are 'raw service response' in 'url_list', 'csv', and 'json' formats. The modal also includes a 'How to cite' section and buttons for 'Download files' and 'Generate URLs'.

1. Service selection :
file metadata

2. Select the station or
the network

3. Click download

4. Download file URL
(url_list), or file
metadata (csv or json)

File Name	File Format	Download	Copy URL
raw service response	url_list	Download	Copy URL
raw service response	csv	Download	Copy URL
raw service response	json	Download	Copy URL

How to cite:
Metadata and URL of RINEX files, provided by the EPOS system.
Accessed on 06-07-2026 through the EPOS system.

[Download files](#) [Generate URLs](#)

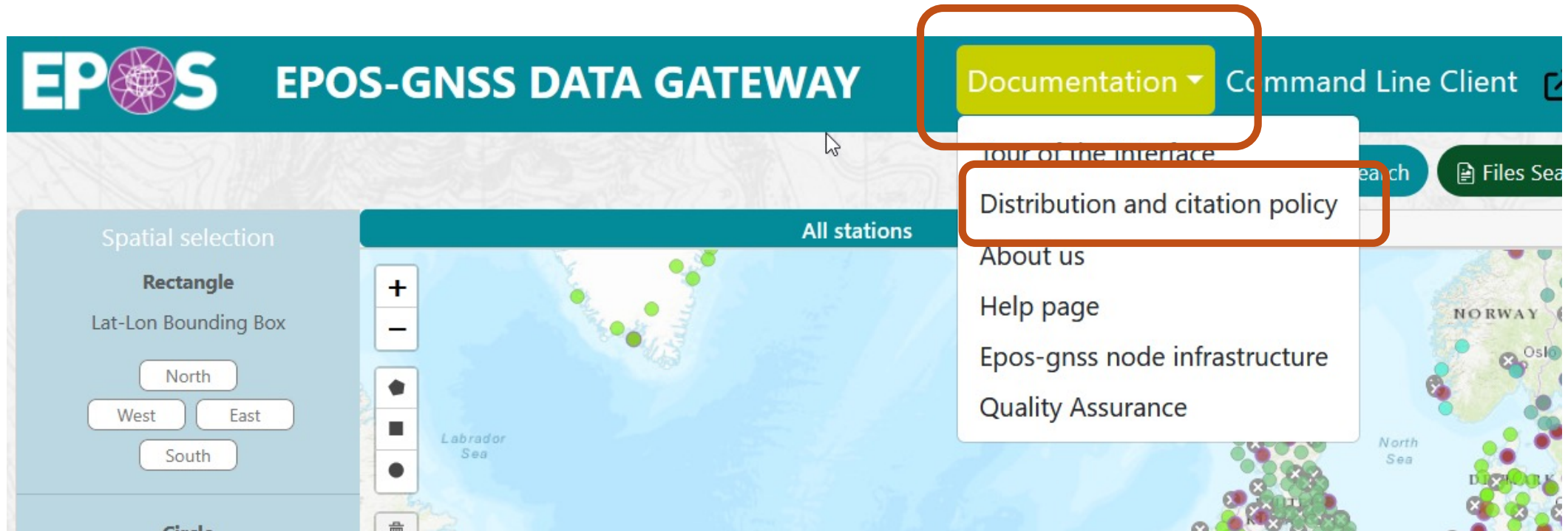
Using the data and metadata from the EPOS-GNSS Data Gateway

Data, metadata and services can be cited

Some recommendations

Geo-Inquire - EPOS-GNSS Data Gateway User Training, July 10th 2026

Where to find the distribution and citation policy



Distribution and citation policy

EPOS-GNSS data are distributed according to international standards and formats specific to GNSS data. They are freely accessible under a CC BY 4.0 or CC BY-NC 4.0 license.

The obligation to cite concerns both the data provider and the services.

EPOS-GNSS Data Gateway

For citing the EPOS-GNSS Data Gateway as a reference in any publication :

Fernandes, R., Bruyninx, C., Crocker, P., Menut, J.-L., Socquet, A., Vergnolle, M., ... Batti, G. (2022). A new European service to share GNSS Data and Products. *Annals of Geophysics*, 65(3), DM317.

<https://doi.org/10.4401/ag-8776>

For citing the EPOS-GNSS Data Gateway in the "Acknowledgments" of any publication:

This **[study/project/research]** used the EPOS-GNSS Data Gateway (<https://gnssdata-epos.oca.eu>), operated by the Observatoire de la Côte d'Azur (OCA, France), for the discovery and distribution of GNSS data and metadata. The data were retrieved through the following EPOS-GNSS node(s): **[node service list*]** and originate from the following data provider(s): **[provider list*]**. Please include the corresponding DOIs or other persistent identifiers where available: **[DOIs/ PIDs*]**. Data accessed on **[DD Month YYYY]**.

(*) You can use the EPOS-GNSS data Gateway (station metadata request).

EPOS-GNSS Data Nodes

Node Name	Node Acronym	Country	DOI	Agency
Belgian EPOS-GNSS node	Belgian-node	Belgium	https://doi.org/10.60888/EPOS-GNSS-BE-NODE	Royal Observatory of Belgium
Central and East European GNSS Node for EPOS	CEGNxEPOS	Italy	https://doi.org/10.13120/29f7-bp54	National Institute of Oceanography and Applied Geophysics - OGS
EPOS-GNSS Pan-European Node	Pan-European	Portugal	https://doi.org/10.25768/ubi-epos-gnss-eu	EPOS-GNSS Pan-European Consortium
French National Node	French-Node	France		Observatoire de la Côte d'Azur
GNSS Permanent IGP Network	IPGP-GNSS	France		Institut de physique du globe de Paris
Icelandic EPOS-GNSS Node	ISGPSN	Iceland		Icelandic Meteorological Office
INGV RING NODE	IRN	Italy		National Institute of Geophysics and Volcanology
National Observatory of Athens (NOA)	NOA	Greece	https://doi.org/10.60888/EPOS-GNSS-NOA-NODE	National Observatory of Athens
Portuguese EPOS National Node	C4G	Portugal	https://doi.org/10.25768/ubi-epos-gnss-pt	Collaboratory for Geosciences - C4G
ROB-EUREF	ROB-EUREF	Belgium	https://doi.org/10.60888/EPOS-GNSS-EUREF-NODE	Royal Observatory of Belgium
SONEL EPOS-GNSS at tide gauges node (SONEL)	SONEL	France	https://doi.org/10.60888/EPOS-GNSS-SONEL-NODE	LIENSs lab, La Rochelle University & CNRS
Spanish EPOS Data node	IGE	Spain		Instituto Geografico Nacional de España
Romanian National Node (NIEP GNSS)	ROGNSS	Romania	https://doi.org/10.60888/epos-gnss-rognss-node	National Institute for Earth Physics

Where to find the station DOI and data license (web interface)

Station / Monument

Instrumentation

Collocation / Conditions

Associated files

Data availability

Quality Check

DOI & Licence

Station Pictures

No picture(s) for this station

COCU00ITA

Cocullo (AQ)

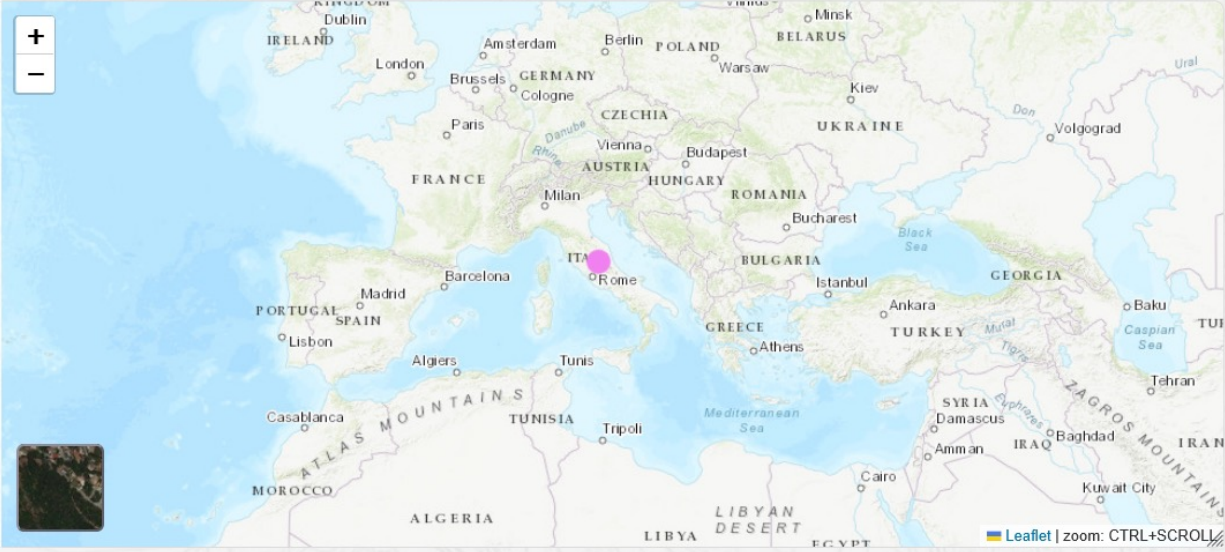
Latitude : 42.0368

Longitude : 13.8195

Altitude : 1378.39

Status : Active

Type : GNSS Continuous



DOI & Licence

DOI : <https://doi.org/10.13127/RING>

License : [CC-BY-4.0](#)

Geo-Inquire - EPOS-GNSS Data Gateway User Training, July 10th 2026

EPOS
EUROPEAN PLATE OBSERVING SYSTEM



Geo-INQUIRE

Where to find the station DOI and data license (command line interface)

```
57812 references_doi_providers_license_2026-07-07_23-20-38.json
15315 references_doi_providers_license_2026-07-07_23-20-38.md
```

In these files
(automatically
downloaded)

Station	License	DOI station	Station Agency	Networks	Nodes	Node DOI	Node Agency	EPOS-GNSS DATA GATEWAY DOI	EPOS-GNSS DATA GATEWAY Agency
RG0000FRA	CC-BY-4.0	https://doi.org/10.15778/resif.rg	Epos-Fr	RENAG	French-Node		OCA-Geoazur		Observatoire de la Côte d'Azur
RG0100FRA	CC-BY-4.0	https://doi.org/10.15778/resif.rg	Epos-Fr	RENAG	French-Node		OCA-Geoazur		Observatoire de la Côte d'Azur
MAN200FRA	CC-BY-4.0	https://doi.org/10.15778/resif.rg	Epos-Fr	EPN & RENAG & RGP	French-Node & ROB-EUREF	https://doi.org/10.60888/EPOS-GNSS-EUREF-NODE	OCA-Geoazur & Royal Observatory of Belgium		Observatoire de la Côte d'Azur
ALPE00FRA	CC-BY-4.0	https://doi.org/10.15778/resif.rg	Epos-Fr	RENAG & RGP	French-Node		OCA-Geoazur		Observatoire de la Côte d'Azur

How to create a citation (command line interface)

```
974 citation_2026-07-07_23-20-38.md
```

In this file (automatically generated with the results)

Preview citation_2026-07-07_23-20-38.md X

This [study/project/research] used the EPOS-GNSS Data Gateway (<https://gnssdata-epos.oca.eu>), operated by the Observatoire de la Côte d'Azur (OCA, France), for the discovery and distribution of GNSS data and metadata. The data were retrieved through the following EPOS-GNSS node(s): French-Node & ROB-EUREF & SONEL and originate from the following data provider(s): OMP & Epos-Fr & LNE-SYRTE & IGN_RGP & OPGC. Please include the corresponding DOIs or other persistent identifiers where available: <https://doi.org/10.15778/resif.rg> & <https://doi.org/10.24414/ROB-EUREF-MARS00FRA> & <https://doi.org/10.24414/ROB-EUREF-BRST00FRA> & <https://doi.org/10.24414/ROB-EUREF-SCOA00FRA> & <https://doi.org/10.24414/ROB-EUREF-ILDX00FRA> & <https://doi.org/10.24414/ROB-EUREF-GUIP00FRA> & <https://doi.org/10.6088/EPOS-GNSS-EUREF-NODE> & <https://doi.org/10.6088/EPOS-GNSS-SONEL-NODE>. Data accessed on the 07 July 2026.

How to re-create the citations and references (command line interface)

With the subcommand **citation** [QUERY] [PARAMETERS]

```
pyglass uv run .\pyglass.py citation stations -m ZMRA00ESP  
Created references_doi_providers_license_2026-07-08_00-13-43.md  
Created references_doi_providers_license_2026-07-08_00-13-43.json  
Created citation_2026-07-08_00-13-43.md
```



Thank you for your attention!

Contact: gnss-dgw@oca.eu

Web Interface: <https://gnssdata-epos.oca.eu>

Command line client: <https://gitlab.com/gpseurope/pyglass/-/releases>

API: <https://gnssdata-epos.oca.eu/GlassFramework/swagger.html>

ICS Portal: <https://www.ics-c.epos-eu.org/>

Geo-INQUIRE is a joint effort of 51 institutions



Geo-INQUIRE is funded by the European Commission under project number 101058518 within the HORIZON-INFRA-2021-SERV-01 call.





EPOS-GNSS Data Gateway User Training

3. Hands-on Exercises

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Geo-INQUIRE is funded by the European Union. Views and opinions expressed are however those of the authors only and do not necessarily reflect those of the European Union or the European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.



Hands-on procedure

- 5 exercises – from easy to advanced
- Only with the web interface
- **Chrome or Firefox only**
- Mini-quizz for each exercise: please answer them !
- Solution at the end of each exercise

Web Interface: <https://gnssdata-epos.oca.eu>