

EPOS-GNSS Data Gateway User Training – Hand on

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A) At the GNSS Data Gateway - <https://gnssdata-epos.oca.eu/>

We suggest you get to know the service by trying to solve a few use-cases.

Please, report issues of the service at <https://gitlab.com/gpseurope/issuetracker>

- 1) Explore the station metadata of the station DYNG00GRC.
 - a) Were you able to open the station metadata page?
 - b) On what kind of bedrock is the station installed?
 - c) Can you download the sitelog?
 - d) Does the station have a DOI? If yes, can you open it and copy it?
Note that DOIs must be collected at some point for any publication.
 - e) Does the station data have a license? What is the license of the station data?
Note that you need to check the license before using any data. In EPOS, data licenses are either CC-BY or CC-BY-NC (NC for non-commercial).
- 2) Explore the station metadata of the station RLSO00GRC.
 - a) How many times has the receiver changed?
 - b) How many times has the antenna changed?
 - c) The station did not acquire data for a long period of time. Give the first and last days of the data gap.
- 3) Explore the station metadata of two (or more) stations together.
 - a) Display the station metadata for both stations (DYNG00GRC & RLSO00GRC) on the same page. Did you succeed? **(Wait a bit for the result to appear, it's a bit slow)**
 - b) Download both IGS sitelogs. Did you succeed?
 - c) Check the start and end dates of the big data gap for the RLSO00GRC station. Is it the same as for question 2c?
- 4) Exploring and downloading the daily RINEX files for MTNA00GRC from March 1st, 2022, to September 30th, 2022.
 - a) Were you able to display the file metadata for MTNA00GRC, between March 1st, 2022, to September 30th, 2022?
 - b) How many files are available?
 - c) Can you download the wget script that allow to download the files?

- 5) Explore the stations and data to study the 2016 Amatrice earthquake (August 24, 2016).
 - a) Select and display the GNSS stations located in a radius of 50km of the epicenter (42.70° N, 13.24°E) that have data in the time range of ± 3 days around 24/08/2016. Did you succeed?
 - b) How many stations are in the selected area and time and have data? Hint: An action is needed to update the interface with the advanced search parameters
 - c) Download this list as CSV. Did you succeed?
 - d) Can you display the file metadata for the station and time?
 - e) How many files are available ?
 - f) Can you download the RINEX URL ?
 - g) Can you export the query for future use (Command Line or API format)?

B) At the EPOS multidisciplinary platform (ICS) - <https://www.ics-c.epos-eu.org>

We suggest you get to know the service by trying to find stations providing High-Rate data, and to download the list of the URL for one of the stations.

Please, report issues at <https://gitlab.com/gpseurope/issuetracker> notifying [ICS] in the title. Do not forget to also indicate the name of the service for which you encountered a bug.

- 1) Find the service that lists the GNSS stations that provide High-Rate data.
 - a) Did you succeed?
 - a) How many of them are available?
 - b) In which countries?
 - c) Download the table of the stations, including their latitude and longitude. Did you succeed?
- 2) Download the list of high-rate RINEX URL for the station ARQT00ITA. How many of them ?

C) Command line client and Data Gateway API

Because it is needed to install the command line tool, and that the API are to be used programmatically, there will not be a hand-on for these interfaces.

Examples, re-using the previous questions, are provided in the correction document.

Do not hesitate to contact us at gnss-dgw@oca.eu for support

Please, we would be grateful if you all could complete the “Give your feedback” survey on the GNSS Data Gateway.

<https://www.cognitoforms.com/dgw3/eposgnssdatagatewayusersatisfactionsurvey>

