

Brief guide to obtaining OS Net data after the 45 day limit.

Data is available on the OS Net web service for up to 45 days. After this OS Net data files can be searched for and listed at the EPOS Data Gateway (<https://gnssdata-epos.oca.eu>).

All files are 24 hour duration at 30 second epoch rate and are in the compacted RINEX 3 format (.crx file extension) and compressed to .gz format. For a guide to RINEX file naming conventions see the document on the OS Net web site - <https://www.ordnancesurvey.co.uk/documents/resources/rinex-file-naming.pdf>.

The initial decompression from .crx.gz file to .crx file can be done with most compression/decompression utilities. Many GNSS processing software will read .crx files directly otherwise the Hatanaka un-compaction utility will be required (from <https://terras.gsi.go.jp/ja/crx2rnix.html>) to expand the .crx files to full RINEX .rnix files.

To select OS Net data start at the EPOS Data Gateway (<https://gnssdata-epos.oca.eu>).

Proceed as follows:

- Select *Show advanced search* at the top right of the page.

Show advanced search

- Click on the green *File Info* bar to open the file selection options.

Monumentation / Equipment

Receiver Type: option
ALERTGEO RESOLUTE
AOA BENCHMARK ACT
AOA SNR-12 ACT

Antenna Type: option
3S-02-TSADM
AERAT1675_120
AOAD/M_B

Radome Type: option
BEVA
CHCD
CNTS

Satellite System: option
GPS
GLONASS
GALILEO

File Info

QC File Info

- Click on the calendar symbol in the *Date from* and *Date to* date range boxes to bring up a calendar and select the required dates. If only require one day of data set the same date in both fields.

File Info

Date Range

Date from : 2024-08-14

Date to : 2024-08-15

YYYY-MM-DD

Data Av

File

QC File Info

August 2024

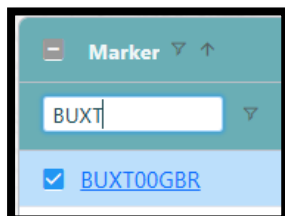
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Either select stations in the table in the lower half of the screen:

- Filter the table by entering “United Kingdom” in the *Country* field.



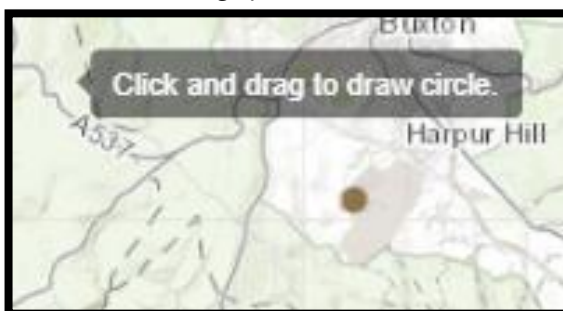
- Individual stations can also be filtered to by entering the station ID the *Marker* field, e.g.:



- Tick the required OS Net stations in the table (tick box is far left column of table).

Or select stations on the map:

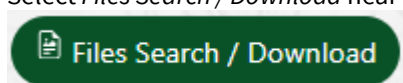
- Zoom/pan the map and select the required stations by drawing selection polygons, boxes or circles using the tools on the left side of the map. A single left click on a station will bring up a window of station information. E.g.:



- Tick the required OS Net stations from the selection in the table (tick box is far left column of table).

Then:

- Select *Files Search / Download* near top right of the page.



- A new web page tab will open and (after a short “loading” pause) will display a table showing the selected files/dates.

EPOS

EPOS-GNSS DATA GATEWAY

Command line client

Documentation

Give your feedback

DATA API

Products portal

M3G

EPOS

Download

Export query

Export CSV file

	File Name	File Type	Reference Date	Published Date	Revision Date	Sampli...	Sampli...	M D5 Check Sum	File Size	Data Center ...	Status
<input type="checkbox"/>	BUXT00GBR_S_20242480000_01D_30S_MO.cnx.gz	RINEX3	2024-09-04 00:0...	2024-09-05 07:1...	2024-09-05 02:5...	24h	30s	f8818620f827b0adfa4e371bd347d63	3193778	EPOSgnss	1
<input type="checkbox"/>	CAMO00GBR_S_20242480000_01D_30S_MO.cnx.gz	RINEX3	2024-09-04 00:0...	2024-09-05 07:1...	2024-09-05 02:5...	24h	30s	19f97ef3adb982b890fa7e7151d4d525	4036989	EPOSgnss	1
<input type="checkbox"/>	HERO00GBR_S_20242480000_01D_30S_MO.cnx.gz	RINEX3	2024-09-04 00:0...	2024-09-05 08:2...	2024-09-05 03:0...	24h	30s	7289b229662eac6a06aeeb2bdba1b3...	3314136	EPOSgnss	1

```
foreach ($URL in Get-Content "c:\temp\eposfilelist.txt")
{
    $filename = "c:\temp\" + (Split-Path $URL -leaf)
    Invoke-WebRequest $URL -OutFile $filename
}
```

The `foreach` command parses each URL in the list in turn. The name of the file (`$filename`) to be saved is constructed from an output directory path (the example uses `c:\temp\`) and the filename given in the URL (the `-leaf` parameter of the URL path). The `Invoke-WebRequest` command then calls the URL and saves the output to `$filename`.

- **“Wget UNIX Script”** – despite the name this script can be used on any system that has the `wget` utility. Very similar to the “File list” option a small text file `eposwget.sh` will be downloaded that contains a list of `wget` commands with the download URL of each file. E.g.:

```
wget https://datacenter.gnss-epos.eu/RINEX3/30s/2024/006/BLAP00GBR_S_20240060000_01D_30S_MO.crx.gz
wget https://datacenter.gnss-epos.eu/RINEX3/30s/2024/006/GIGG00GBR_S_20240060000_01D_30S_MO.crx.gz
wget https://datacenter.gnss-epos.eu/RINEX3/30s/2024/006/LEED00GBR_S_20240060000_01D_30S_MO.crx.gz
wget https://datacenter.gnss-epos.eu/RINEX3/30s/2024/006/MANR00GBR_S_20240060000_01D_30S_MO.crx.gz
wget https://epncb.oma.be/ftp/obs/2024/006/DARE00GBR\_S\_20240060000\_01D\_30S\_MO.crx.gz
```

- **“Json”** – only for users familiar with implementing JSON data to extract the file download URLs and use them in a suitable script to capture the files. A file `files-metadata.json` of JSON format data for each RINEX file will be downloaded.