

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 can be downloaded from two sources – the EPOS Data Gateway (<https://gnssdata-epos.oca.eu/#/site>) and the BKG GNSS Data Centre (https://igs.bkg.bund.de/root_ftp/EUREF/obs/). Unfortunately, despite being listed at EPOS, not all OS Net data is available to download from EPOS. About 10% of OS Net stations are part of the Europe wide EPN network (<http://www.epncb.oma.be/index.php>) and, whilst all OS Net stations display (and are selectable) at EPOS, the EPN station data has to be obtained from BKG.

Files from both EPOS and BKG 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>.

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/crx2rnx.html>) to expand the .crx files to full RINEX .rx files. The initial decompression from .crx.gz file to .crx file can be done with most compression/decompression utilities.

To select and download OS Net data it is best to start at the EPOS Data Gateway. Proceed as follows:

- Select the *Networks* pull down in the top right corner of the map; select *Select/Deselect All* from the top left area of the *Networks* box to clear all the selections; select OS Net from the “Local” list; select the *Networks* pull down again to close it.
- Select *Show advanced search* at the top right of the page; select the green *File Info* bar; select a *From* and *To* date range. If only require one day of data set the same date in both fields [optional] select *Hide advanced search* at the top right of the page to close the search options box.

Either:

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

Or:

- Zoom/pan the map and select the required stations either with single left click on an individual station or by drawing selection polygons, boxes or circles using the tools on the left side of the map.

Then:

- Select *Files Search / Download* near top right of the page;
- a new tab will open with a table showing the selected files/dates;
- tick the required files. All files can be selected with a single tick in top left corner of the table;
- select *Download* pull down and choose *Download selected*;
- **any files labelled as “EPN_HDC” in the “Data Center Acronym” column of the files table will not download from EPOS and will need to be obtained from BKG instead.**
- The BKG site is a simple “file list” layout organised into yearly and then daily “day of year” folders. Simply click through to the appropriate year/day directly and find the required OS Net files. The files at BKG will have the same names as those on the EPOS file table.