Removal of the C2 observable from OS Net RINEX files.

At 00:00 (GPS time) on 21st August 2020 (DoY 234, session a) the number of observables in OS Net RINEX files available from https://www.ordnancesurvey.co.uk/gps/os-net-rinex-data/was expanded to include a wider range of observables, including those on the L5 band and the L2C pseudo range.

Some users with older processing software have reported a problem with data containing the L2C pseudo range observable (RINEX obs code "C2").

C2 has now been removed from OS Net RINEX data, starting with files from 00:00 (GPS time) Monday 5th October 2020 (DoY 279, session a).

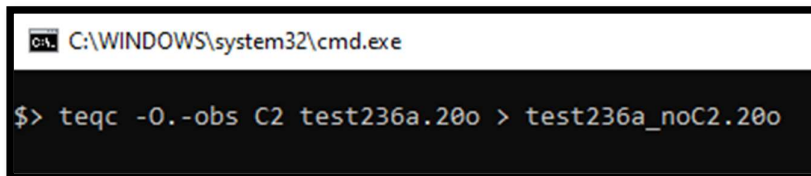**C2 observable removal (instructions for Windows 10 PCs)**

To remove C2 from OS Net RINEX use the *TEQC* tool available from here: https://www.unavco.org/software/data-processing/teqc/teqc.html#executables

TEQC runs from the command prompt. The general format of a TEQC command is:
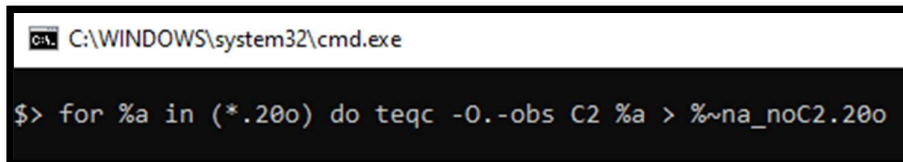*teqc OPTIONS InputFile > OutputFile*

The *-O.-obs* option is used to filter out C2 observations:


```
C:\WINDOWS\system32\cmd.exe

$> teqc -O.-obs C2 test236a.20o > test236a_noC2.20o
```
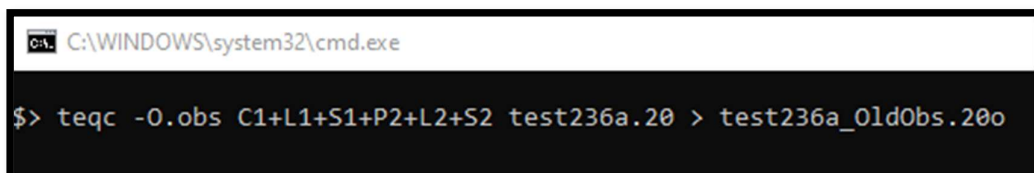
An example loop to filter C2 from multiple files would be:


```
C:\WINDOWS\system32\cmd.exe

$> for %a in (*.20o) do teqc -O.-obs C2 %a > %~na_noC2.20o
```

This creates new filtered files with "_noC2" appended to the filename. E.g. if input = *test236a.20o*, output = *test236a_noC2.20o.*

To filter all observables back to what was offered prior to 21st August use the *-O.obs* option to only <u>include</u> the listed observables and exclude all others:


```
C:\WINDOWS\system32\cmd.exe

$> teqc -O.obs C1+L1+S1+P2+L2+S2 test236a.20 > test236a_OldObs.20o
```