

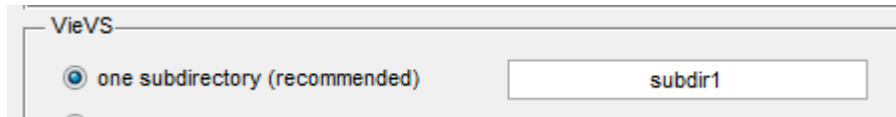
4th VieVS User Workshop

Exercise

Processing of a session with a clock break, creating the OPT file

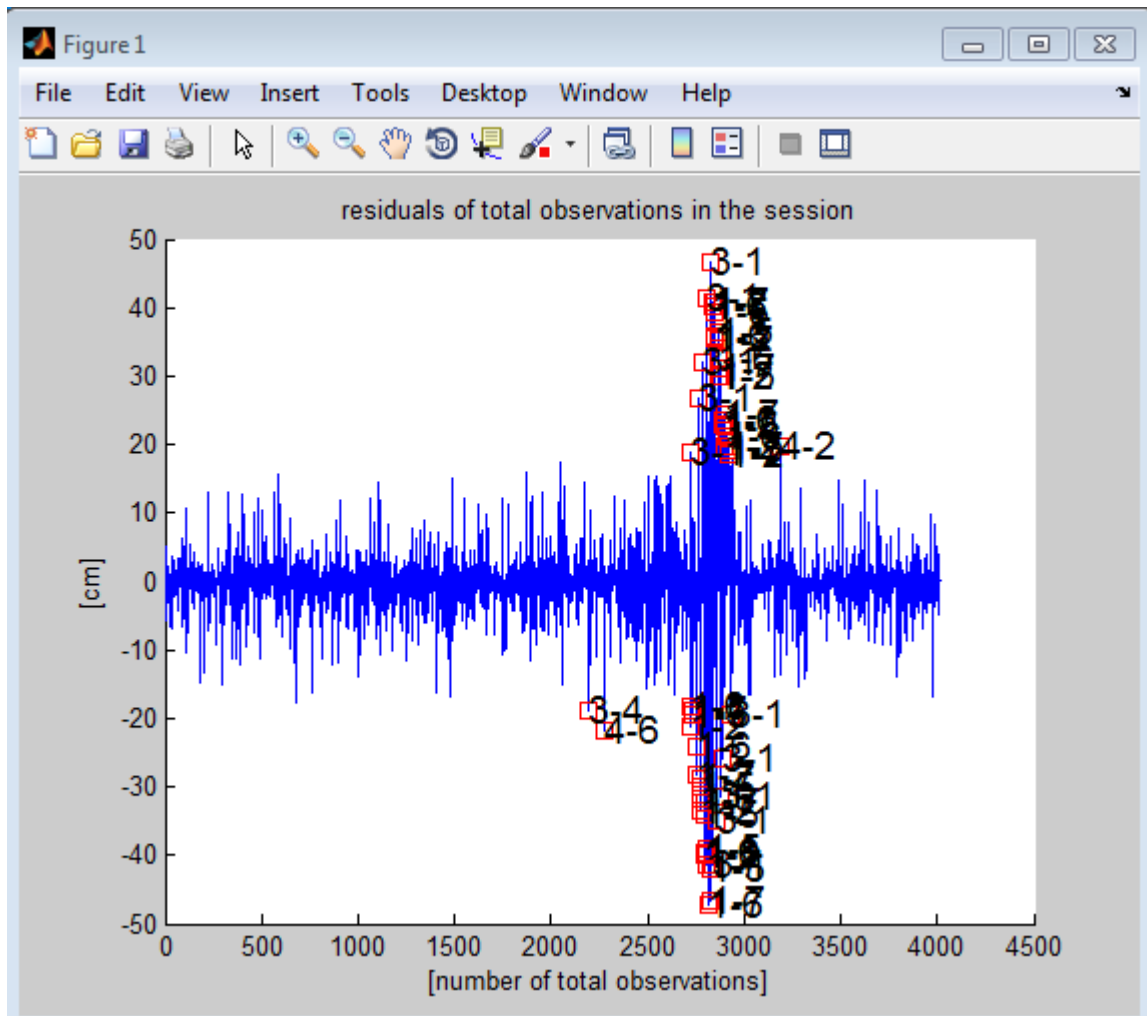
1. Process the session 11SEP05XA_N007 with default options.

In the Tab “Run”, choose a subdirectory



Attention! The OPT directory to be chosen is EMPTY

Your results will look like this:



With a high chi-squared

```
chi-squared of main solution vTPv/degOfFreedom: 13.1572
```

2. Plot the residuals

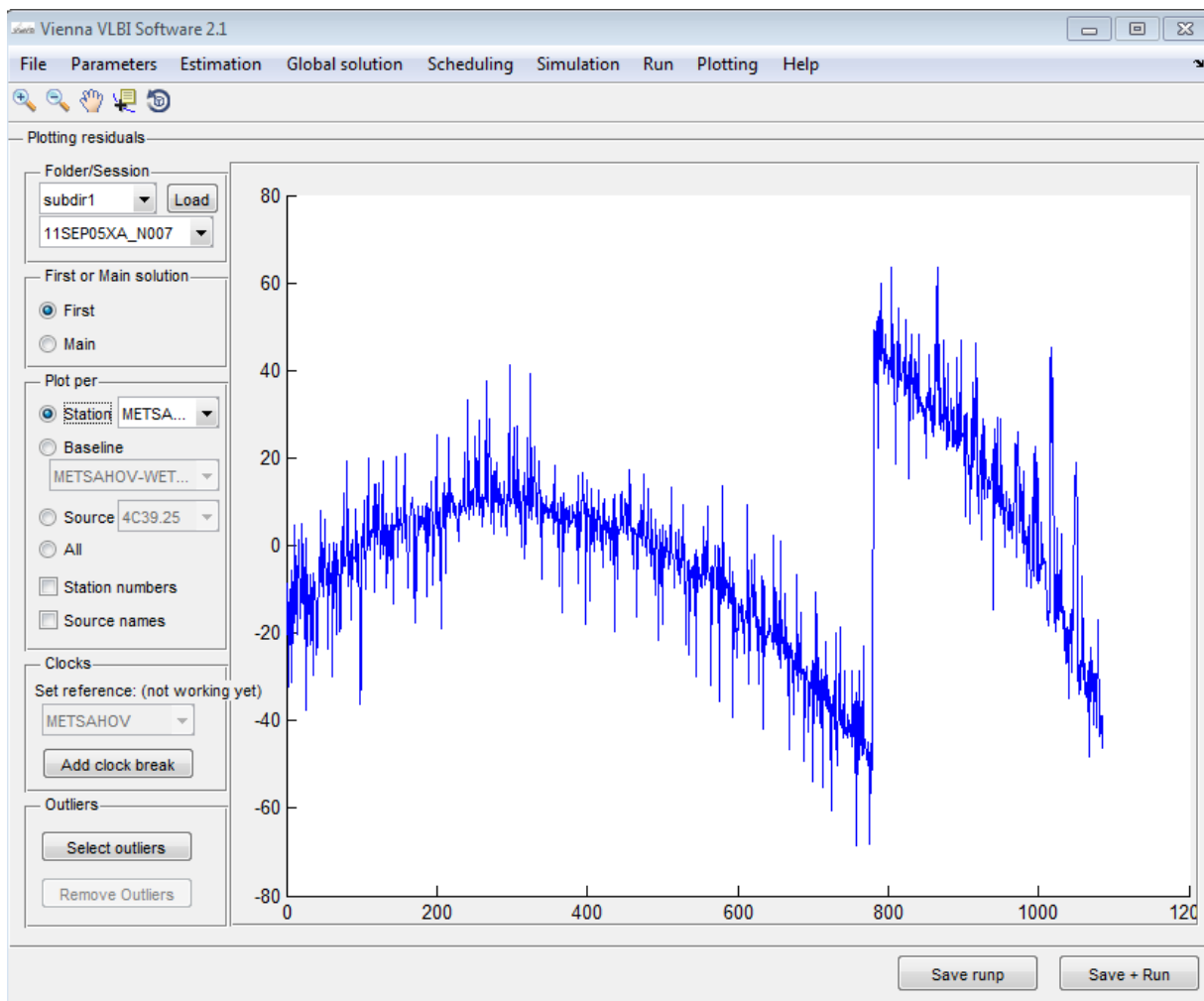
In order to search for possible reasons for this bad result, take a closer look on the processed session in the Tab “Plotting-Residuals”.

Load the session by choosing your subdirectory

Choose “First Solution”

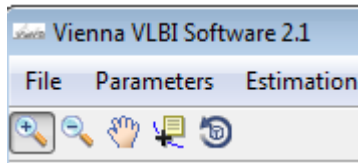
Plot the residuals per Station

If you choose the station METSAHOV, you find a clear clock break

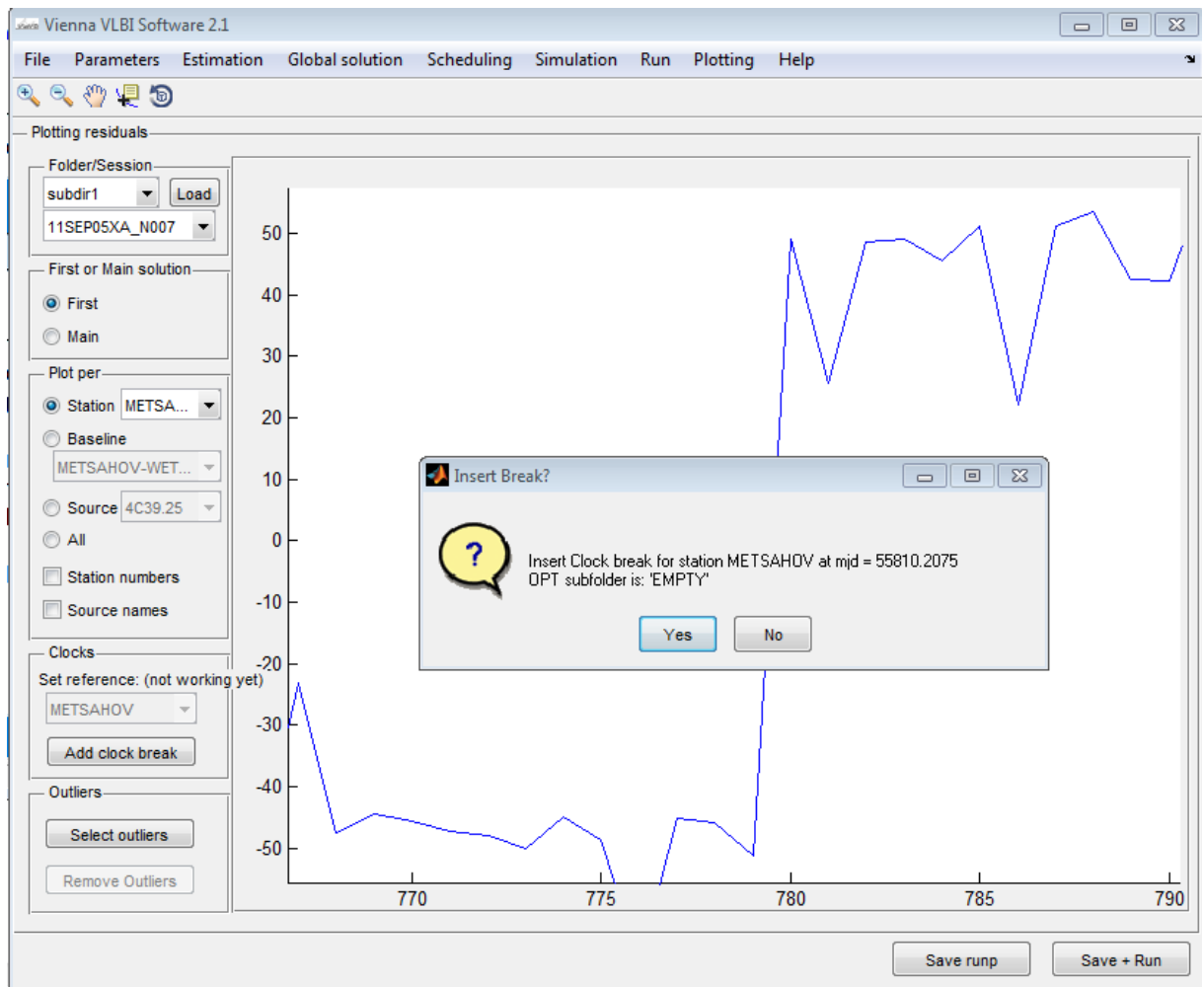


3. Create OPT file

Zoom into the plot



Press Clocks/Add clock break and click on the plot where the break should be set.



Confirm with "Yes"

4. OPT file

An OPT file is created in your chosen EMPTY OPT folder
VieVS/DATA/OPT/EMPTY/2011/11SEP05XA.OPT

```
CLOCK BREAKS: 1
METSABOV 55810.207477
STATIONS TO BE EXCLUDED: 0
BASELINES TO BE EXCLUDED: 0
SOURCES TO BE EXCLUDED: 0
```

If necessary, add a CLOCK REFERENCE.
Copy this OPT file into your own directory.
VieVS/DATA/OPT/MYOPT/2011/11SEP05XA.OPT

5. Run the session again

Choose your OPT directory including the OPT file.

If necessary, reload folders with *File-Reload folders*

Your results should be much better: chi-squared ~1.3

6. Improve your results

→ Exclude a baseline (CRIMEA - SVETLOE)

```
CLOCK REFERENCE:
WETTZEHL
CLOCK BREAKS: 1
METSABOV 55810.207477
STATIONS TO BE EXCLUDED: 0
BASELINES TO BE EXCLUDED: 1
CRIMEA SVETLOE
SOURCES TO BE EXCLUDED: 0
```

Attention! 8-letter station name!

→ Apply outliers