

8th VieVS User Workshop

Vie_SETUP V3.0

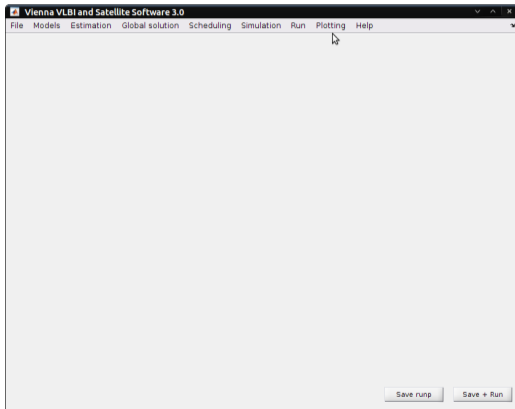
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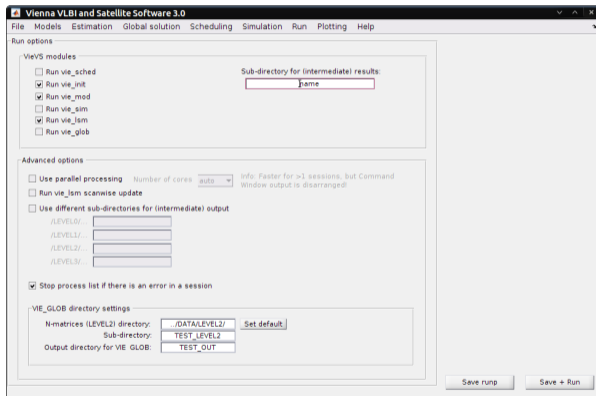
Vie_Setup

- Is GUI for Vienna VLBI Software Graphical User Interface (GUI)
- Incorporates all modules
 - Shown in separate talks
- Chosen parametrization:
 - can be saved / selected on demand
File - Parameter file and load / save to
/WORK/PARAMETERS/file_name.mat;
 - auto saved / then, can be selected in
/DATA/LEVEL0/... and /DATA/LEVEL1/...
.../sub_folder/session_name_parameter.mat



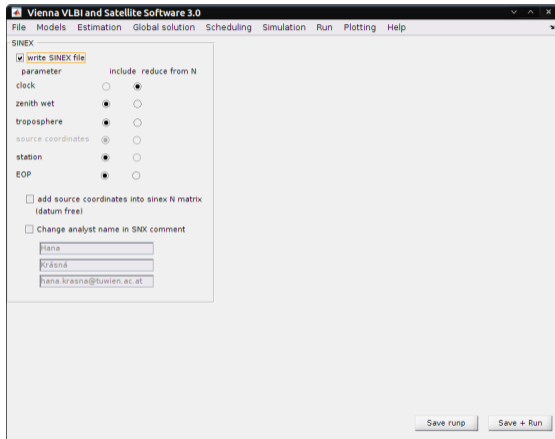
Vie_Setup: Run options

- runp.mat saves:
 - VieVS modules
 - Advanced options
- Save runp
 - to use without GUI
 - in the command window: `views('batch')`
- Save + Run
 - for "processing to go"



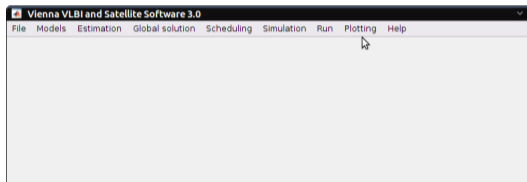
Single session processing: optional output SINEX

- Run - SINEX output
- Saved in /DATA/SNX/...
...subfolder/...
...session_name.SNX



Vie_Setup: introducing the plotting tool

- Menu name: Plotting
 - Residuals
 - Parameters
 - Session information
 - EOP/BAS out



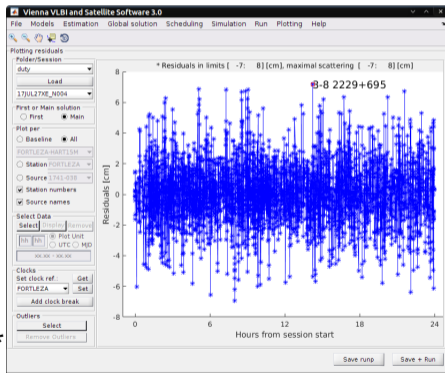
- * Hint
 - File - Reload folders

Plotting \Rightarrow Residuals

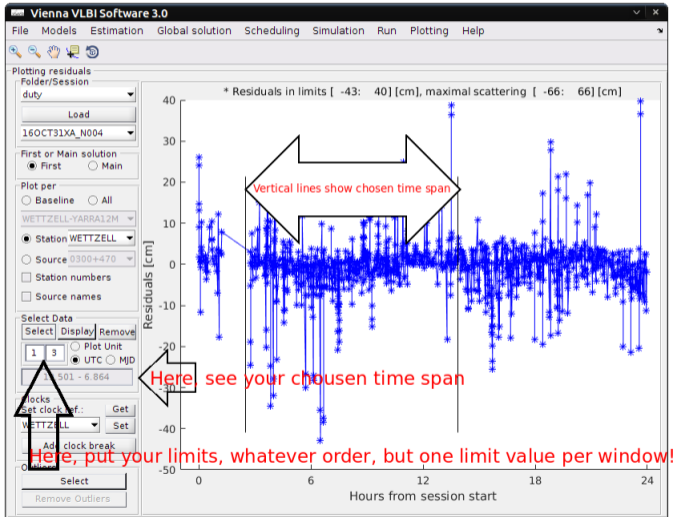
- Folder/Session
Load data located in
LEVEL3/subfolder/**res_session_name**
- First or Main solution
res_firstVal and **res_mainVal**
- Plot per ...
 - + Depict outliers detected in VIE_LSM
and saved it to **res_outlier**
- Clocks (in detail in a separate talk)
- Outliers
Selected data will be written in the
outlier_folder/year/session_name.OUT*

* /DATA/OUTLIERS/outlier_folder is selected in File->Set input file

Residual plot



Plotting \Rightarrow Residual plot features



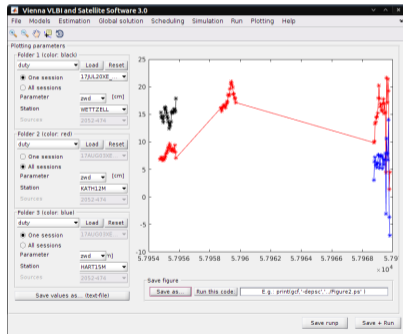
Plotting \Rightarrow Parameters

- Folder/subfolder/
Load data located in
LEVEL1/subfolder/session_name_antenna
LEVEL3/subfolder/x_&opt_session_name
- For one or all sessions
EOP xp,yp,dut1,nutdx,nutdy
- Station
clock polynomial pwclk
zenith wet delay zwd,
north / east gradients ngr / egr,
coordinates coor(x,y,z)
- Sources

-> Save value as... writes txt-file

-> Save figure: Save as... modify file type

Parameter estimates as in x_



Plotting \Rightarrow Session Analysis

- Folder/Session/
Load data located in
LEVEL1/subfolder*/

LEVEL3/subfolder/x_
opt_ atpa_

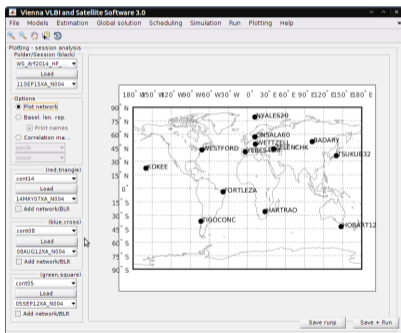
* subfolder name = **opt_**level1OutDir

- Options

- Plot network: **_antenna.x & .y & .z**
Bas. len. rep.
(Baseline length repeatability)
Correlation matrix

_antenna

Station network



Plotting \Rightarrow Session Analysis

- Folder/Session/

Load data located in
LEVEL1/subfolder*/

session_name_antenna

LEVEL3/subfolder/x_session_name,

opt_session_name, atpa_session_name

* subfolder name = opt_level1OutDir

- Options

- Correlation matrix:

x_(par).col, atpa_mat=AP_{observ}A'

clock polynomial pwclk

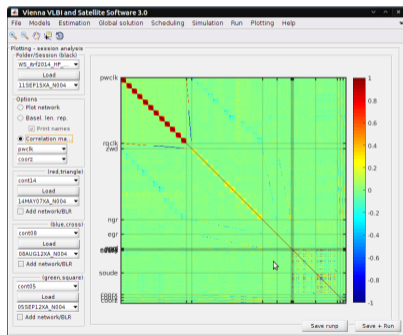
zenith wet delay zwd,

north / east gradients ngr / egr,

EOP xp,yp,dut1,nutdx,nutdy

coordinates coor(x,y,z)

Correlation matrix



Thank you for your attention!