

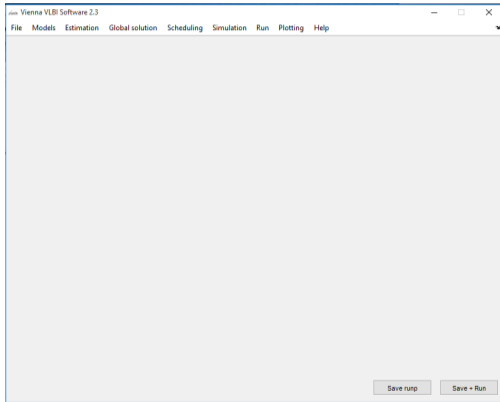
Vie_Setup

Anastasiia Girdiuk



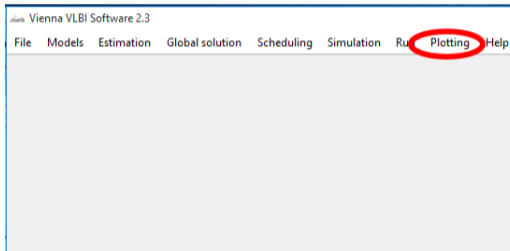
Vie_Setup

- Is GUI for Vienna VLBI Software Graphical User Interface (GUI)
- Is created via MATLAB (GUIDE)
- Incorporates all modules
 - Shown in separate talks
- Comes with plotting tool



Vie_Setup: introducing the plotting tool

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

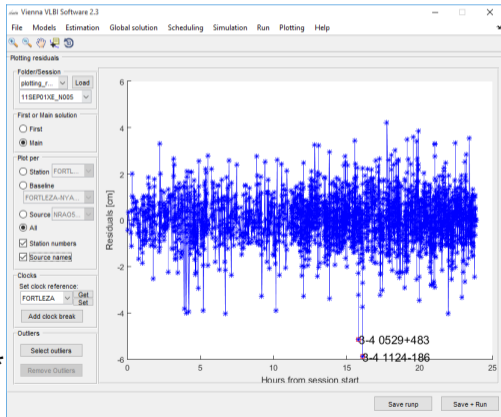


Plotting \Rightarrow Residuals

- 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

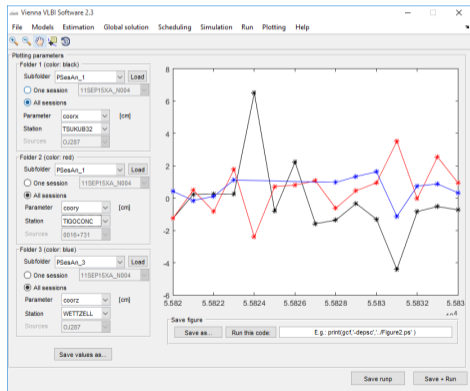
Residual plot



Plotting \Rightarrow 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

Estimates plot



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:

$x_{(par).col}$, $atpa_{.mat} = AP_{observ} A'$

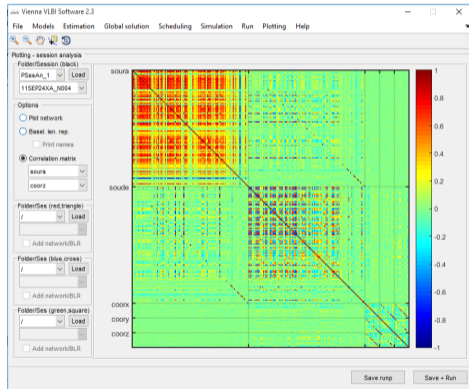
clock polynomial pwclk

zenith wet delay zwd,

north / east gradients ngr / egr,

EOP xp,yp,dut1,nutdx,nutdy

coordinates $coor(x,y,z)$



Plotting \Rightarrow EOP/BAS out

In detail, let's meet at next talk 😊

Vie_Setup: EOP and baseline length repeatability output

Plotting \Rightarrow EOP/BAS out

In detail, let's meet at next talk 😊

Vie_Setup: EOP and baseline length repeatability output

Thank your for your attention!