Single Session Analysis

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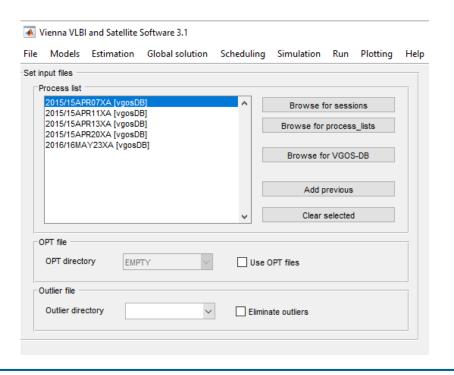
Outline

- 1. Process lists
- 2. Parameter files
- 3. OPT files
- 4. Analyzing a session
- 5. Plotting tools
- 6. Sinex files



Process lists

- Sometimes it's good to have predefined lists of sessions which you process often
- Simply create this list in the GUI





Creating process lists

- Start VieVS by typing into MATLAB command window
 >> vievs
- Select the sessions you want to include in the list
 File Set input files Browse for VGOS-DB
- The process list can be saved with
 Files Parameter files Save process list as ...
- Load the process list through Browse for process_lists
- By default, process lists are stored to and loaded from /WORK/PROCESSLIST/



Create parameter files

- Select the options you like under Parameters and Estimation
- The parameter file can be saved with
 File Parameter files Save parameters as ...
- Load the parameter file through
 File Parameter files Load parameters ...
- By default, parameter files are stored to and loaded from /WORK/PARAMETERS/
- Load default parameter files with
 File Parameter files Load defaults



OPT files

- In these files, special options for a session can be set
- Right-click on session and choose Open/Create OPT file to open it

```
CLOCK BREAKS: 1
MATERA 57532.297801
STATIONS TO BE EXCLUDED: 1
NYALDBBC
BASELINES TO BE EXCLUDED: 2
HOBART12 MATERA
WARK12M MATERA
SOURCES TO BE EXCLUDED: 0
STATIONS TO BE DOWN-WEIGHTED: 0
NO CABLE CAL: 0

# Name: <Enter your name here>
# Date: <Date of OPT-file submission>
# Additional analysis comments (optional):
```



OPT files

- Problems that can occur
 - Clock breaks
 - Bad stations, sources, baselines
 - Only a few observations
 - **—** ...
- Identifying the problem
 - Investigate the session (residual plots, ..)
 - Correlation reports, analysis reports
 https://ivscc.gsfc.nasa.gov/sessions/



Let's analyze a session together!



Plotting tools

- VieVS has a tool to visualize the parameters estimated in the analysis
- Parameters represent additions to the a priori values, depending on the estimation settings
- All data is stored in the so-called x_ files, which are stored in /DATA/LEVEL3/<subdirectory>/x_<session name>.mat

Sinex files

- Standardized output format for geodetic parameters
- Used for distribution of products and estimates
- Needs to be specified in Run Sinex output
- Run the session again in order to write the Sinex file