

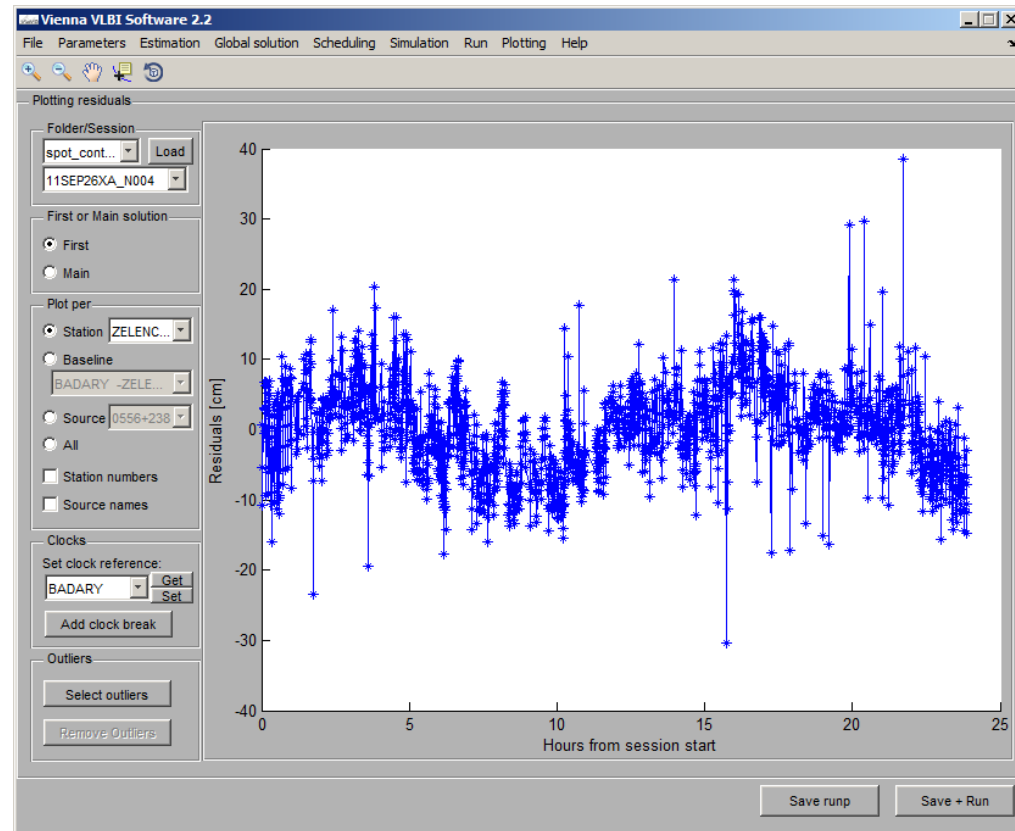
Vie_setup

Matthias Madzak



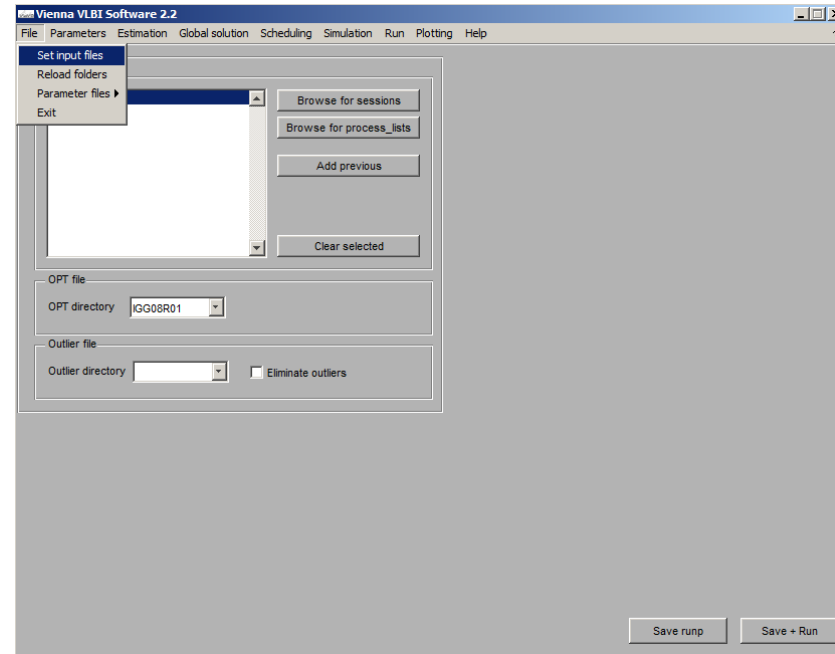
Vie_setup

- Is GUI for Vienna VLBI Software
- Is easy to use (windows style)
- Comes with a plotting tool



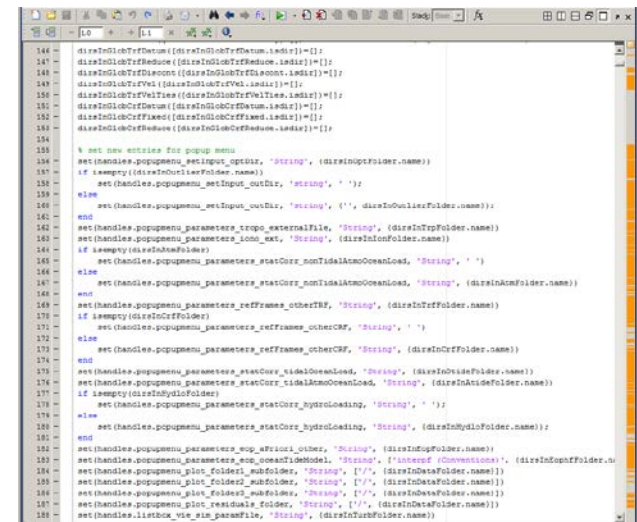
Matlab interface

- .m file – Code
- .fig file – Objects
- Starts by running .m file



GUI .m file

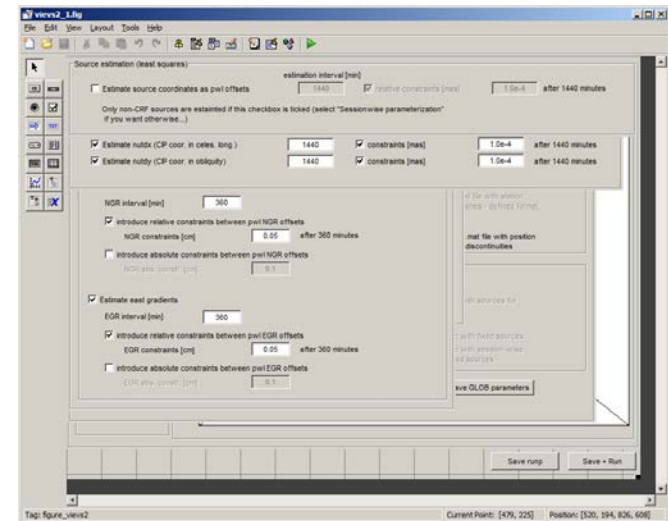
- Consists of matlab code
- Callbacks for objects
- User functions possible
- Large GUI = Long .m-file (slow) → outsource code



```
144 - dirInlobTrfDatum (dirInlobTrfDatum_idx)=[];
145 - dirInlobTrfReduce (dirInlobTrfReduce_idx)=[];
146 - dirInlobTrfResort (dirInlobTrfResort_idx)=[];
147 - dirInlobTrfVel (dirInlobTrfVel_idx)=[];
148 - dirInlobTrfVelTee (dirInlobTrfVelTee_idx)=[];
149 - dirInlobTrfVecum (dirInlobTrfVecum_idx)=[];
150 - dirInlobCrffixed (dirInlobCrffixed_idx)=[];
151 - dirInlobCrffixed (dirInlobCrffixed_idx)=[];
152 - dirInlobCrffixed (dirInlobCrffixed_idx)=[];
153 - dirInlobCrffixed (dirInlobCrffixed_idx)=[];
154 -
155 % set new entries for popup menu
156 set(handles.popupmenu_getinput_optDir, 'String', (dirInlobFolder.name));
157 if isempty (dirInlobFolder.name)
158     set(handles.popupmenu_getinput_optDir, 'String', ' ');
159 else
160     set(handles.popupmenu_getinput_optDir, 'String', (' ', dirInlobFolder.name));
161 end
162 set(handles.popupmenu_parameters_trpo_externalFile, 'String', (dirInlobFolder.name));
163 set(handles.popupmenu_parameters_long_ext, 'String', (dirInlobFolder.name));
164 if isempty (dirInlobFolder)
165     set(handles.popupmenu_parameters_statCurr_sonTidalAreaOceanLoad, 'String', ' ');
166 else
167     set(handles.popupmenu_parameters_statCurr_sonTidalAreaOceanLoad, 'String', (dirInlobFolder.name));
168 end
169 set(handles.popupmenu_parameters_refFrame_otherTRF, 'String', (dirInlobFolder.name));
170 if isempty (dirInlobFolder)
171     set(handles.popupmenu_parameters_refFrame_otherCRF, 'String', ' ');
172 else
173     set(handles.popupmenu_parameters_refFrame_otherCRF, 'String', (dirInlobFolder.name));
174 end
175 set(handles.popupmenu_parameters_statCurr_tidalOceanLoad, 'String', (dirInlobFolder.name));
176 set(handles.popupmenu_parameters_statCurr_tidalAreaOceanLoad, 'String', (dirInlobFolder.name));
177 if isempty (dirInlobFolder)
178     set(handles.popupmenu_parameters_statCurr_hydroLoading, 'String', ' ');
179 else
180     set(handles.popupmenu_parameters_statCurr_hydroLoading, 'String', (dirInlobFolder.name));
181 end
182 set(handles.popupmenu_parameters_wop_aPriori_other, 'String', (dirInlobFolder.name));
183 set(handles.popupmenu_parameters_wop_omegTideModel, 'String', {'intinf (Conventions)', (dirInlobFolder.name)});
184 set(handles.popupmenu_plot_folder_subFolder, 'String', ['/'], (dirInlobFolder.name));
185 set(handles.popupmenu_plot_folder_subFolder, 'String', ['/'], (dirInlobFolder.name));
186 set(handles.popupmenu_plot_folder_subFolder, 'String', ['/'], (dirInlobFolder.name));
187 set(handles.popupmenu_plot_restData_folder, 'String', ['/'], (dirInlobFolder.name));
188 set(handles.popupmenu_plot_restData_folder, 'String', ['/'], (dirInlobFolder.name));
189 set(handles.popupmenu_plot_restData_folder, 'String', ['/'], (dirInlobFolder.name));
190 set(handles.popupmenu_plot_restData_folder, 'String', ['/'], (dirInlobFolder.name));
```

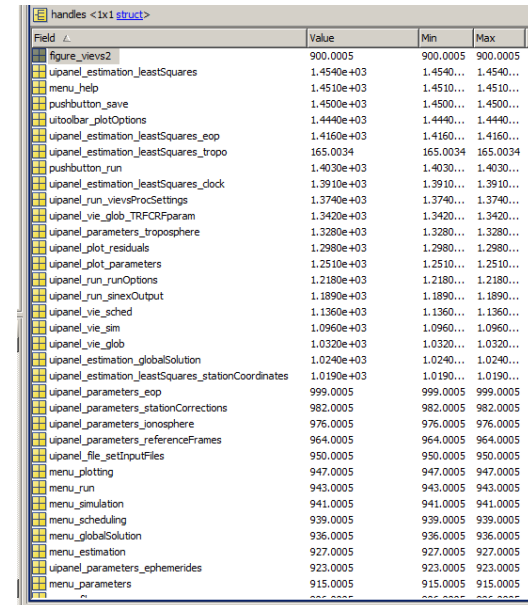
GUI .fig file

- All objects (panels, buttons, text, boxes,...)
- Create/Change with GUIDE (drag'n'drop)
- Simple (code behind is more difficult)



GUI handles structure

- One variable for all content
 - GUI parameters (state)
 - User data (or in disk file)
 - Passed into callback functions
 - Fields are object handles
- get(handles.checkbox_run_allowStationwise, ...*
'Value') returns current value of checkbox (1 oder 0)

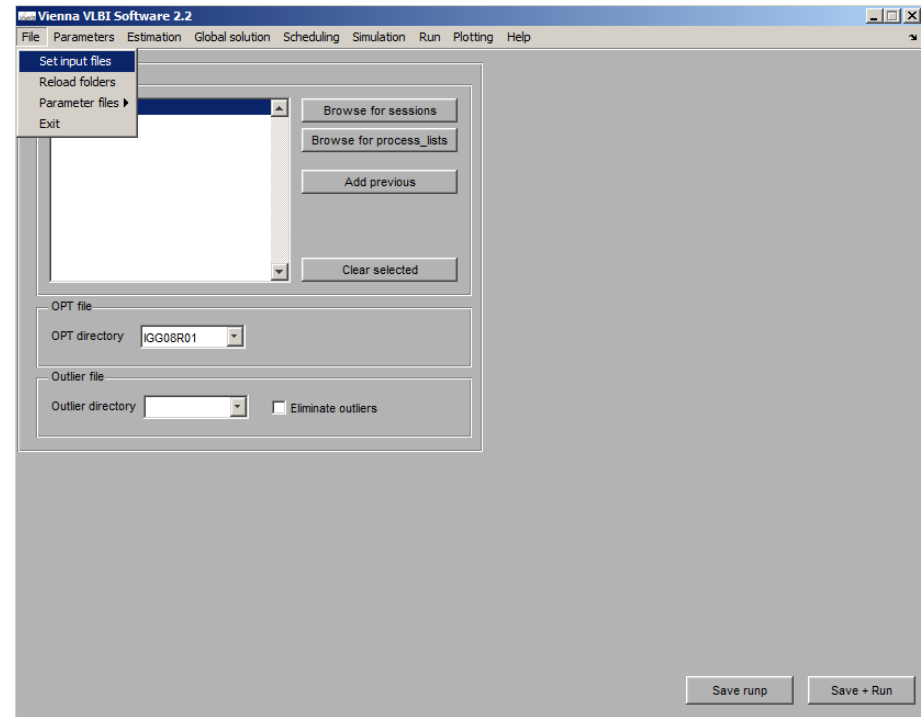


The screenshot shows a MATLAB handles structure window titled 'handles <1x1 struct>'. It displays a list of fields and their corresponding values, along with minimum and maximum values for some fields. The fields are listed in a table format.

Field	Value	Min	Max
figure_views2	900.0005	900.0005	900.0005
uipanel_estimation_leastSquares	1.4540e+03	1.4540...	1.4540...
menu_help	1.4510e+03	1.4510...	1.4510...
pushbutton_save	1.4500e+03	1.4500...	1.4500...
uicontrol_toolbar_plotOptions	1.4440e+03	1.4440...	1.4440...
uipanel_estimation_leastSquares_eop	1.4160e+03	1.4160...	1.4160...
uipanel_estimation_leastSquares_tropo	165.0034	165.0034	165.0034
pushbutton_run	1.4030e+03	1.4030...	1.4030...
uipanel_estimation_leastSquares_clock	1.3910e+03	1.3910...	1.3910...
uipanel_run_viewProcSettings	1.3740e+03	1.3740...	1.3740...
uipanel_vie_glob_TRFCRParam	1.3420e+03	1.3420...	1.3420...
uipanel_parameters_troposphere	1.3280e+03	1.3280...	1.3280...
uipanel_plot_residuals	1.2980e+03	1.2980...	1.2980...
uipanel_plot_parameters	1.2510e+03	1.2510...	1.2510...
uipanel_run_runOptions	1.2180e+03	1.2180...	1.2180...
uipanel_run_sineXOutput	1.1890e+03	1.1890...	1.1890...
uipanel_vie_sched	1.1360e+03	1.1360...	1.1360...
uipanel_vie_sim	1.0960e+03	1.0960...	1.0960...
uipanel_vie_glob	1.0320e+03	1.0320...	1.0320...
uipanel_estimation_globalSolution	1.0240e+03	1.0240...	1.0240...
uipanel_estimation_leastSquares_stationCoordinates	1.0190e+03	1.0190...	1.0190...
uipanel_parameters_eop	999.0005	999.0005	999.0005
uipanel_parameters_stationCorrections	982.0005	982.0005	982.0005
uipanel_parameters_ionosphere	976.0005	976.0005	976.0005
uipanel_parameters_referenceFrames	964.0005	964.0005	964.0005
uipanel_file_setInputFiles	950.0005	950.0005	950.0005
menu_plotting	947.0005	947.0005	947.0005
menu_run	943.0005	943.0005	943.0005
menu_simulation	941.0005	941.0005	941.0005
menu_scheduling	939.0005	939.0005	939.0005
menu_globalSolution	936.0005	936.0005	936.0005
menu_estimation	927.0005	927.0005	927.0005
uipanel_parameters_ospherides	923.0005	923.0005	923.0005
menu_parameters	915.0005	915.0005	915.0005

Minimum for VieVS

- Select session(s)
- Click „Save + Run“

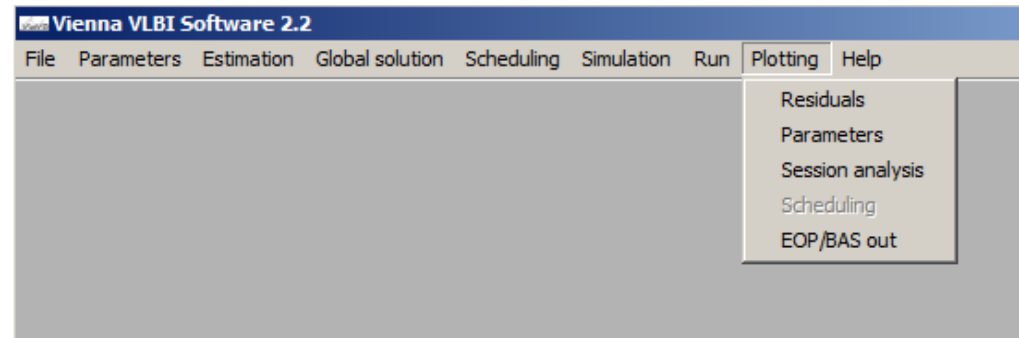


More options

- A priori models (vie_mod)
- Estimation options (vie_lsm)
- Scheduling (vie_sched)
- Simulation (vie_sim)
- Global solution (vie_glob)

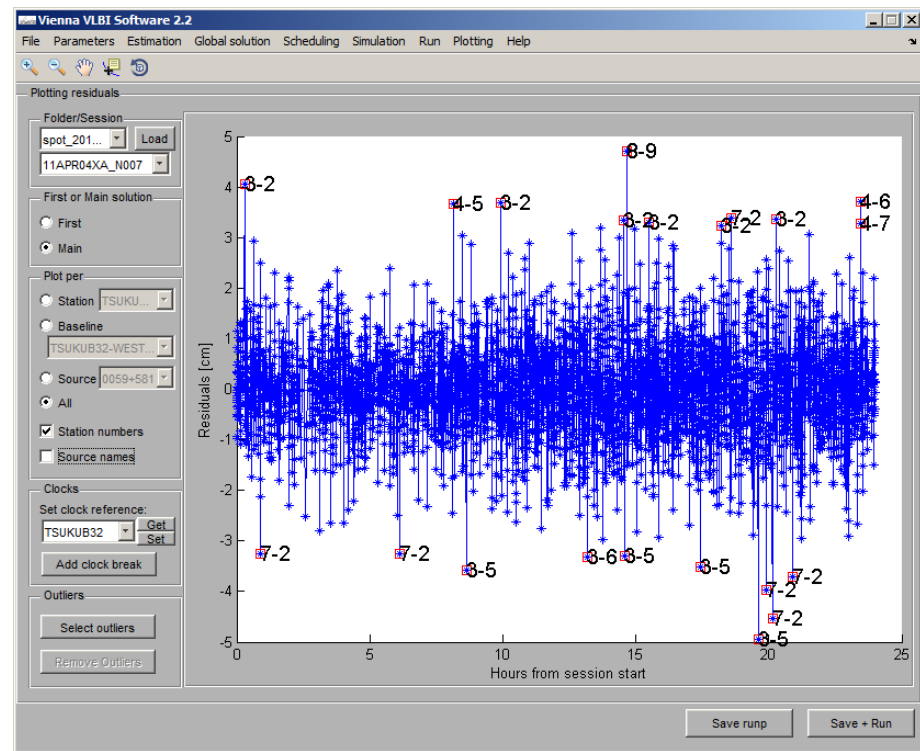
Plotting

- In menu Plotting
 - Residuals
 - Parameters
 - Session information
 - Output to text (EOP, baselines)



Plot residuals

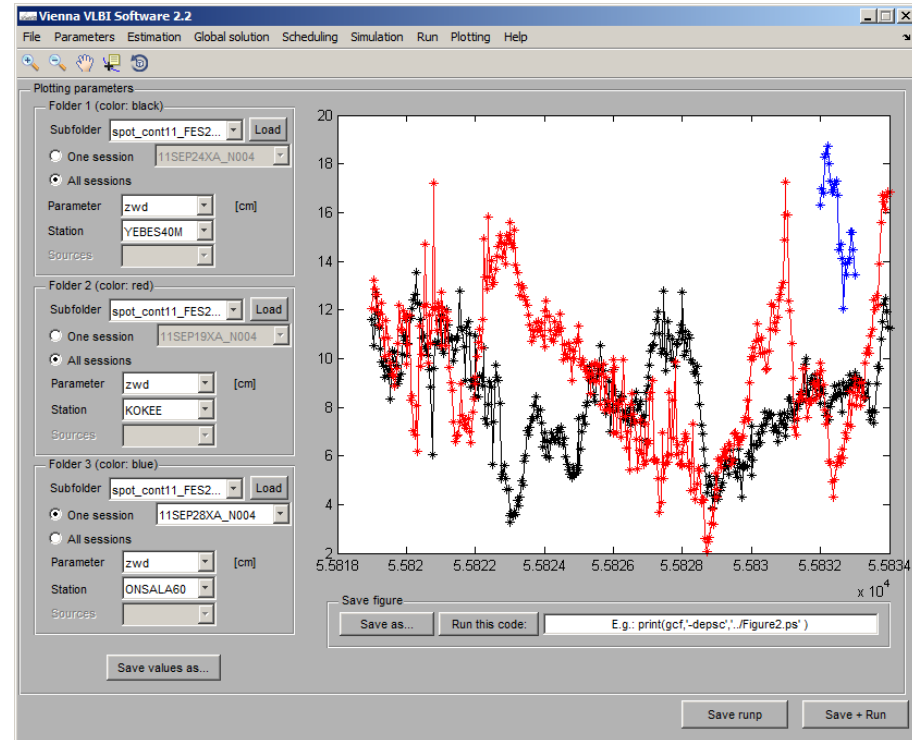
- First (only clock+zwd)
 - Clock breaks
- Main solution
- Station-wise
- Baseline-wise
- Source-wise
- + Station/Source names
- + Clock breaks adding
- + Outlier selection



→ Check for problems

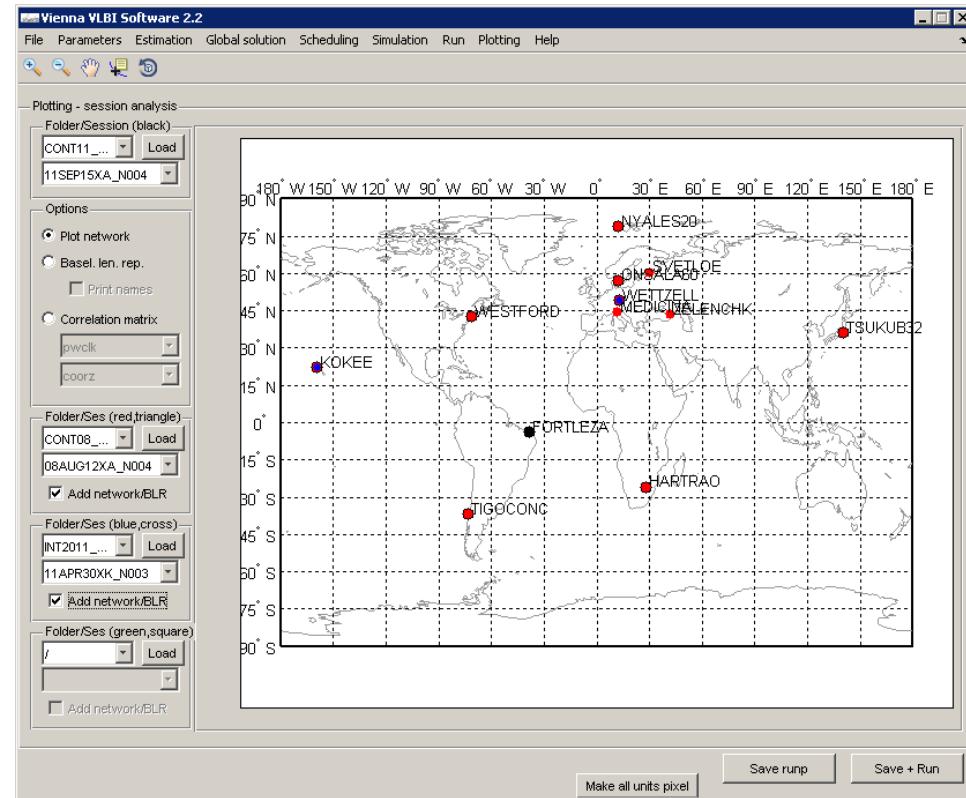
Plot parameters

- One/all session(s) in folder
- Parameters per station
- Comparison (up to three) possible
- Save values as text
- Print to any format (e/ps, png, jpg...)



Plot session information

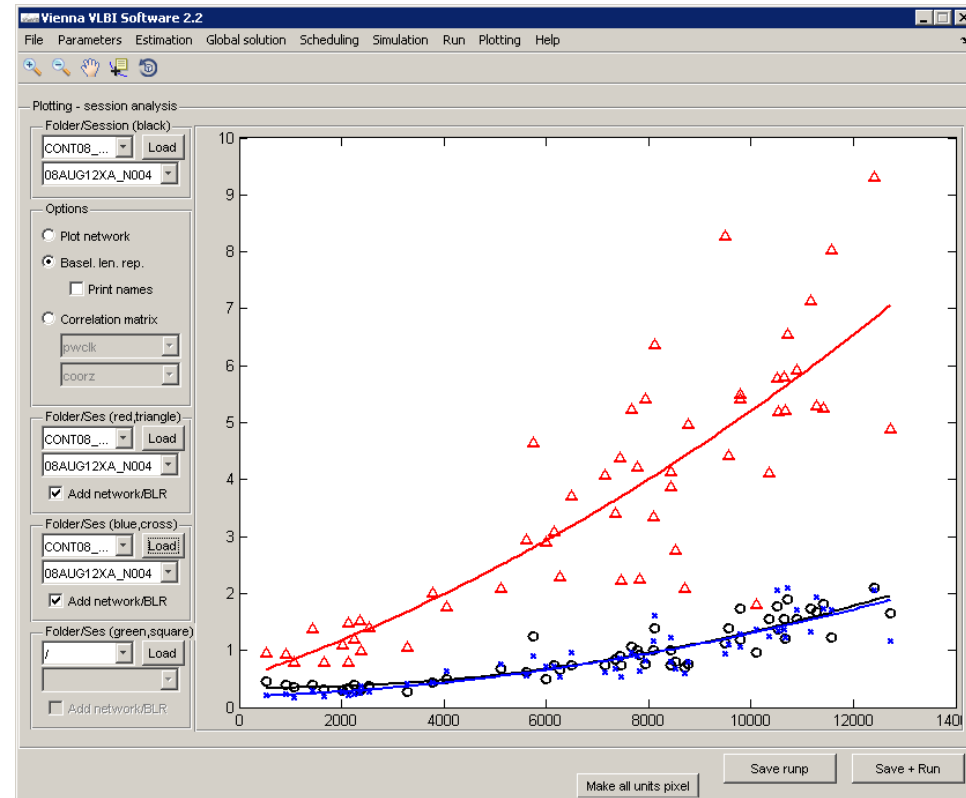
- Session network*
 - Baseline length repeatabilities*
 - Correlation matrix
- * Up to four sessions



Plot session information

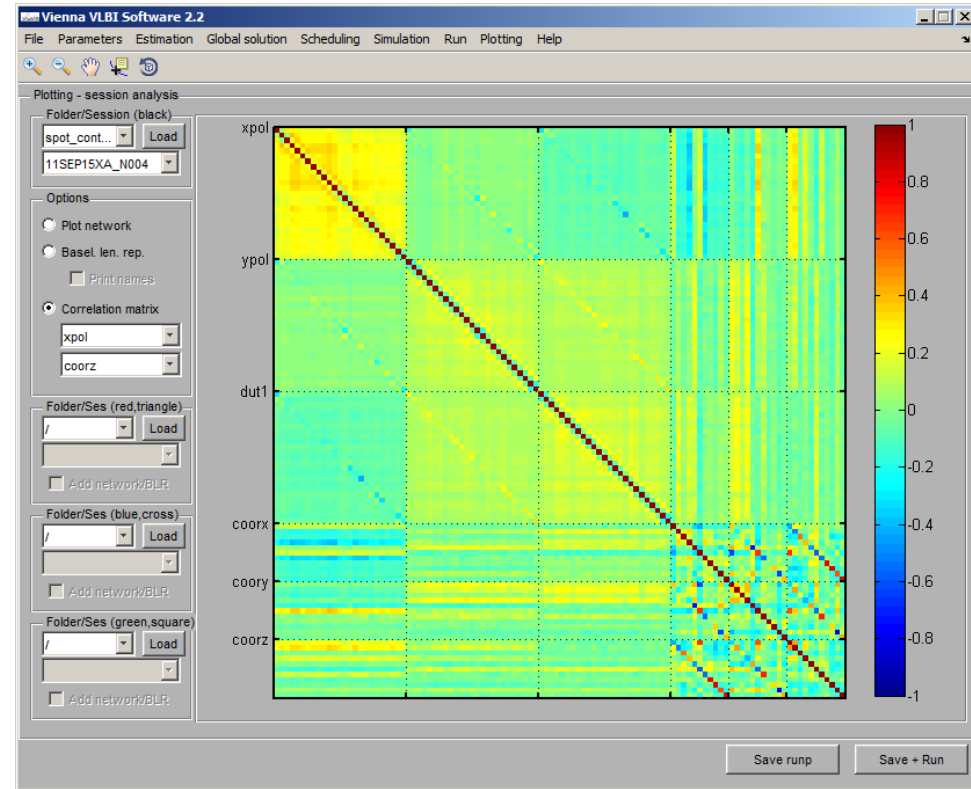
- Session network*
- Baseline length repeatabilities*
- Correlation matrix

* Up to four sessions



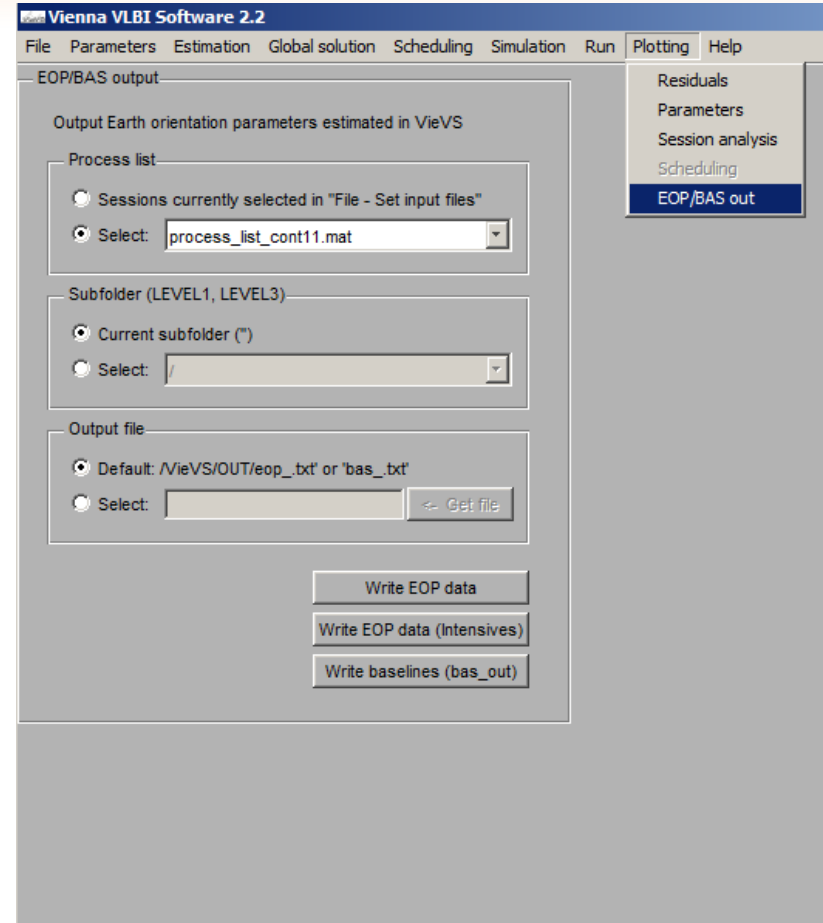
Plot session information

- Session network*
 - Baseline length repeatabilities*
 - **Correlation matrix**
- * Up to four sessions



Output to text

- Save estimated EOP or baseline lengths
- Select
 - Sessions (Process list)
 - Subfolder (by user)
 - Output file
- (Intensives/24h: Different epoch treatment)



Output to text – EOP

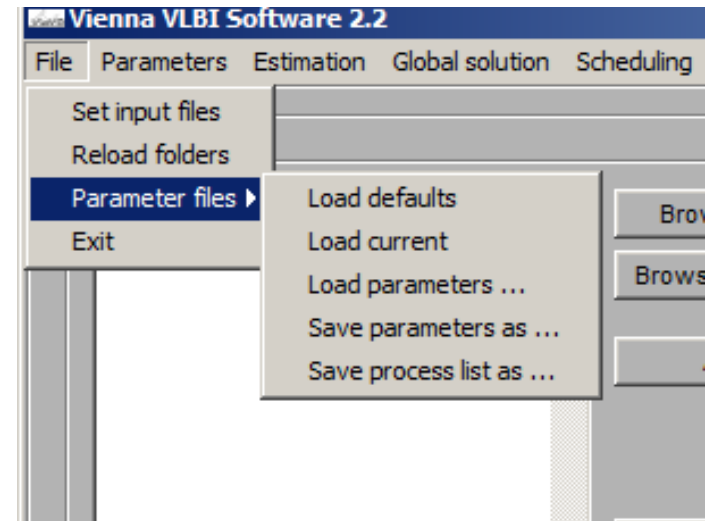
```
1 .....
2 % Columns:
3 % 1 .... mjd
4 % 2-6 .... total values(x,y,ut,dX,dY)
5 % 7-11 .... a priori EOP (input in vie_mod)
6 % 11-16 .... estimated values
7 % 17-21 .... error of estimation
8 % 22-24 .... high frequency (subdaily) ERP corrections
9 %
10 % all units in mas resp. ms (dut1)
11 .....
12 % MJD      xpol      ypol      dut1      dX      dY      x_apr      y_apr      ut_apr      dX_apr      dY_apr      x_est      y_est      dut1_est      dX_est      dY_est      x_err      y_err      ut_err
13 %
14 55819.0000 180.564229 403.879429 -305.553131      NaN      NaN      180.560000 404.008000 -305.519900 0.057300 0.188200 0.004429 -0.128571 -0.033231      NaN      NaN      0.098902 0.117484 0.0028
15 55819.0417 180.531249 403.805374 -305.568341      NaN      NaN      180.578627 403.981545 -305.534118 0.058663 0.188394 -0.047378 -0.176171 -0.034223      NaN      NaN      0.079442 0.092669 0.0027
16 55819.0833 180.685902 403.879278 -305.586568      NaN      NaN      180.599139 403.952416 -305.549748 0.060154 0.188618 0.086763 -0.073138 -0.036820      NaN      NaN      0.084893 0.100195 0.0026
17 55819.1250 180.789610 404.049629 -305.607207      NaN      NaN      180.621518 403.920637 -305.566770 0.061770 0.188874 0.168092 0.128992 -0.040437      NaN      NaN      0.071988 0.087714 0.0025
18 55819.1667 180.700153 403.600298 -305.629101      NaN      NaN      180.645734 403.886248 -305.585159 0.063508 0.189162 0.054419 -0.285590 -0.043942      NaN      NaN      0.071584 0.072498 0.0025
19 55819.2083 180.805476 403.807715 -305.652507      NaN      NaN      180.671747 403.849302 -305.604879 0.065363 0.189485 0.133728 -0.041587 -0.047628      NaN      NaN      0.082383 0.070294 0.0025
20 55819.2500 180.657004 403.521081 -305.676804      NaN      NaN      180.695950 403.809865 -305.625888 0.067328 0.189844 -0.042505 -0.288784 -0.050916      NaN      NaN      0.082742 0.069519 0.0024
21 55819.2917 180.752570 403.867132 -305.702192      NaN      NaN      180.728960 403.768018 -305.648137 0.069397 0.190240 0.023610 0.099113 -0.054055      NaN      NaN      0.086315 0.080240 0.0024
22 55819.3333 180.782903 403.613776 -305.727683      NaN      NaN      180.760030 403.723854 -305.671569 0.071564 0.190676 0.022873 -0.110078 -0.056114      NaN      NaN      0.075728 0.086363 0.0024
23 55819.3750 180.734526 403.434511 -305.753909      NaN      NaN      180.792641 403.677478 -305.696121 0.073820 0.191151 -0.058116 -0.242966 -0.057789      NaN      NaN      0.075422 0.078687 0.0024
24 55819.4167 180.827286 403.741568 -305.780862      NaN      NaN      180.826707 403.629005 -305.721722 0.076157 0.191668 0.000579 0.112563 -0.059133      NaN      NaN      0.062792 0.071112 0.0024
25 55819.4583 180.914498 403.340371 -305.808787      NaN      NaN      180.862132 403.578564 -305.748299 0.078565 0.192227 0.052366 -0.238193 -0.060488      NaN      NaN      0.075672 0.071393 0.0024
26 55819.5000 180.846045 403.466903 -305.837350      NaN      NaN      180.898813 403.526292 -305.775768 0.081034 0.192830 -0.052769 -0.059388 -0.061582      NaN      NaN      0.080329 0.083432 0.0024
27 55819.5417 180.867991 403.669812 -305.866112      NaN      NaN      180.936641 403.472333 -305.804045 0.083555 0.193477 -0.068650 0.197479 -0.062067      NaN      NaN      0.094205 0.090934 0.0024
28 55819.5833 181.027065 403.252320 -305.894483      NaN      NaN      180.975498 403.416843 -305.833039 0.086116 0.194169 0.051567 -0.164523 -0.061444      NaN      NaN      0.082966 0.079362 0.0024
29 55819.6250 181.133441 403.474231 -305.922559      NaN      NaN      181.015263 403.359981 -305.862656 0.088706 0.194906 0.118178 0.114250 -0.059903      NaN      NaN      0.067402 0.071087 0.0024
30 55819.6667 181.036092 403.459422 -305.949691      NaN      NaN      181.055809 403.301915 -305.892798 0.091314 0.195689 -0.019717 0.157506 -0.056893      NaN      NaN      0.075815 0.085710 0.0024
31 55819.7083 181.031710 403.246976 -305.976612      NaN      NaN      181.097003 403.242816 -305.923367 0.093929 0.196518 -0.065293 0.004160 -0.053245      NaN      NaN      0.081789 0.077135 0.0024
32 55819.7500 181.182531 403.142758 -306.003411      NaN      NaN      181.138712 403.182858 -305.954260 0.096537 0.197393 0.043819 -0.040100 -0.049151      NaN      NaN      0.079532 0.074200 0.0024
33 55819.7917 181.142808 403.090245 -306.030230      NaN      NaN      181.180798 403.122219 -305.985375 0.099128 0.198315 -0.037990 -0.031974 -0.044855      NaN      NaN      0.100245 0.071797 0.0025
34 55819.8333 181.439718 402.998996 -306.057310      NaN      NaN      181.223121 403.061076 -306.016610 0.101689 0.199282 0.216596 -0.062081 -0.040700      NaN      NaN      0.086060 0.080326 0.0025
35 55819.8750 181.387349 403.048267 -306.085126      NaN      NaN      181.265543 402.999608 -306.047860 0.104209 0.200295 0.121807 0.048659 -0.037266      NaN      NaN      0.094274 0.080882 0.0026
36 55819.9167 181.401190 402.869589 -306.113321      NaN      NaN      181.307922 402.937991 -306.079204 0.106675 0.201353 0.093268 -0.068402 -0.034297      NaN      NaN      0.077012 0.095335 0.0026
37 55819.9583 181.785478 402.937725 -306.142402      NaN      NaN      181.350120 402.876398 -306.110004 0.109076 0.202455 0.435358 0.061326 -0.032399      NaN      NaN      0.082020 0.090253 0.0027
38 55820.0000 181.567635 402.697569 -306.172453      NaN      NaN      181.392000 402.815000 -306.140700 0.111400 0.203600 0.175635 -0.117431 -0.031753      NaN      NaN      0.115372 0.137095 0.0028
39 55820.0000 181.478173 402.658031 -306.127639      NaN      NaN      181.392000 402.815000 -306.140700 0.111400 0.203600 0.086173 -0.156969 0.013061      NaN      NaN      0.195468 0.263413 0.0034
40 55820.0417 181.336726 402.893653 -306.153944      NaN      NaN      181.430133 402.759500 -306.169138 0.113388 0.204830 -0.093407 0.134153 0.014194      NaN      NaN      0.139019 0.131469 0.0032
41 55820.0833 181.419896 402.584584 -306.179268      NaN      NaN      181.467677 402.704524 -306.195104 0.115277 0.206101 -0.047782 -0.113940 0.015835      NaN      NaN      0.119398 0.101142 0.0031
42 55820.1250 181.536599 402.366362 -306.204565      NaN      NaN      181.504558 402.650139 -306.221556 0.117062 0.207410 0.032042 -0.283778 0.016990      NaN      NaN      0.106103 0.104426 0.0030
43 55820.1667 181.478032 402.594865 -306.229457      NaN      NaN      181.540704 402.596400 -306.247458 0.118738 0.208755 -0.062672 -0.001535 0.018000      NaN      NaN      0.104373 0.097120 0.0029
44 55820.2083 181.358453 402.401334 -306.254308      NaN      NaN      181.576052 402.543351 -306.272780 0.120300 0.210133 -0.217599 -0.141818 0.018472      NaN      NaN      0.095326 0.087135 0.0028
45 55820.2500 181.597989 402.411656 -306.278189      NaN      NaN      181.610544 402.491031 -306.297497 0.121743 0.211542 -0.012555 -0.079374 0.019308      NaN      NaN      0.110643 0.097140 0.0028
46 55820.2917 181.483365 402.462086 -306.302004      NaN      NaN      181.644129 402.439464 -306.321591 0.123064 0.212979 -0.107064 0.022622 0.019588      NaN      NaN      0.113046 0.099440 0.0028
47 55820.3333 181.596555 402.333695 -306.325772      NaN      NaN      181.676762 402.388667 -306.346500 0.124262 0.214439 -0.080207 -0.054971 0.019278      NaN      NaN      0.095294 0.099576 0.0028
48 55820.3750 181.418841 402.595216 -306.350089      NaN      NaN      181.708405 402.338646 -306.367866 0.125333 0.215921 -0.289565 0.256569 0.017778      NaN      NaN      0.099111 0.110826 0.0028
49 55820.4167 181.942431 402.050398 -306.373370      NaN      NaN      181.739026 402.289401 -306.390339 0.126277 0.217420 0.203405 -0.239003 0.016669      NaN      NaN      0.107372 0.097780 0.0028
50 55820.4583 181.658309 402.457598 -306.396204      NaN      NaN      181.768600 402.240919 -306.411573 0.127094 0.218934 -0.110291 -0.216679 0.015363      NaN      NaN      0.105708 0.103119 0.0028
51 55820.5000 181.945100 402.380100 -306.418300      NaN      NaN      181.797300 402.192800 -306.432400 0.127786 0.220448 0.147889 0.096660 0.013263      NaN      NaN      0.101135 0.103263 0.0028
```


Output to text – baselines

```
1 %*****
2 % Columns:
3 % 1 .... session
4 % 2 .... reference time
5 % 3 .... baselines
6 % 4 .... a priori baseline lengths
7 % 5 .... estimated baseline lengths
8 % 6 .... formal errors
9 % all units are in meters
10 %*****
11 %
12 11SEP15XA_N004 55820 KOKEE - TSUKUB32 5754939.0285 5754939.0333 0.0025
13 11SEP15XA_N004 55820 KOKEE - NYALES20 8102965.1313 8102965.1377 0.0033
14 11SEP15XA_N004 55820 KOKEE - HOBART12 8268813.6872 8268813.6924 0.0046
15 11SEP15XA_N004 55820 KOKEE - FORTLEZA 11063797.8782 11063797.8749 0.0053
16 11SEP15XA_N004 55820 KOKEE - HARTRAO 12723078.7933 12723078.7982 0.0063
17 11SEP15XA_N004 55820 KOKEE - TIGOCNC 9791078.5959 9791078.6017 0.0064
18 11SEP15XA_N004 55820 KOKEE - YEBES40M 10687951.3513 10687951.3605 0.0040
19 11SEP15XA_N004 55820 KOKEE - ONSALA60 9792551.1553 9792551.1580 0.0042
20 11SEP15XA_N004 55820 KOKEE - WESTFORD 7676204.8954 7676204.8967 0.0038
21 11SEP15XA_N004 55820 KOKEE - WETTZELL 10357448.7227 10357448.7310 0.0040
22 11SEP15XA_N004 55820 TSUKUB32 - NYALES20 6497992.4850 6497992.4965 0.0025
23 11SEP15XA_N004 55820 TSUKUB32 - HOBART12 8087667.2383 8087667.2499 0.0045
24 11SEP15XA_N004 55820 TSUKUB32 - FORTLEZA 12252037.6575 12252037.6678 0.0050
25 11SEP15XA_N004 55820 TSUKUB32 - HARTRAO 11158665.6639 11158665.6885 0.0051
26 11SEP15XA_N004 55820 TSUKUB32 - TIGOCNC 12400571.5673 12400571.5826 0.0071
27 11SEP15XA_N004 55820 TSUKUB32 - YEBES40M 9510755.1476 9510755.1644 0.0030
28 11SEP15XA_N004 55820 TSUKUB32 - ONSALA60 7940444.1918 7940444.2034 0.0032
29 11SEP15XA_N004 55820 TSUKUB32 - WESTFORD 9505664.8009 9505664.8137 0.0038
30 11SEP15XA_N004 55820 TSUKUB32 - WETTZELL 8444991.5219 8444991.5395 0.0029
31 11SEP15XA_N004 55820 NYALES20 - HOBART12 11957870.2233 11957870.2352 0.0061
32 11SEP15XA_N004 55820 NYALES20 - FORTLEZA 8743816.2817 8743816.2882 0.0036
33 11SEP15XA_N004 55820 NYALES20 - HARTRAO 10100925.3137 10100925.3305 0.0040
34 11SEP15XA_N004 55820 NYALES20 - TIGOCNC 11284435.3880 11284435.4046 0.0062
35 11SEP15XA_N004 55820 NYALES20 - YEBES40M 4246386.2106 4246386.2153 0.0013
36 11SEP15XA_N004 55820 NYALES20 - ONSALA60 2387493.1560 2387493.1601 0.0012
37 11SEP15XA_N004 55820 NYALES20 - WESTFORD 5103586.6097 5103586.6161 0.0021
38 11SEP15XA_N004 55820 NYALES20 - WETTZELL 3283002.1302 3283002.1349 0.0012
39 11SEP15XA_N004 55820 HOBART12 - FORTLEZA 11699463.3553 11699463.3531 0.0066
40 11SEP15XA_N004 55820 HOBART12 - HARTRAO 9167399.4381 9167399.4405 0.0063
41 11SEP15XA_N004 55820 HOBART12 - TIGOCNC 9208030.5300 9208030.5249 0.0069
42 11SEP15XA_N004 55820 HOBART12 - YEBES40M 12502556.1716 12502556.1846 0.0062
43 11SEP15XA_N004 55820 HOBART12 - ONSALA60 12256198.1205 12256198.1247 0.0065
44 11SEP15XA_N004 55820 HOBART12 - WESTFORD 12346599.4775 12346599.4882 0.0066
```

Save and load GUI state

- Get GUI options from a parameter file
- Same parameterization
- Defaults
- Current – before very latest action
- Save process_list



Program structure

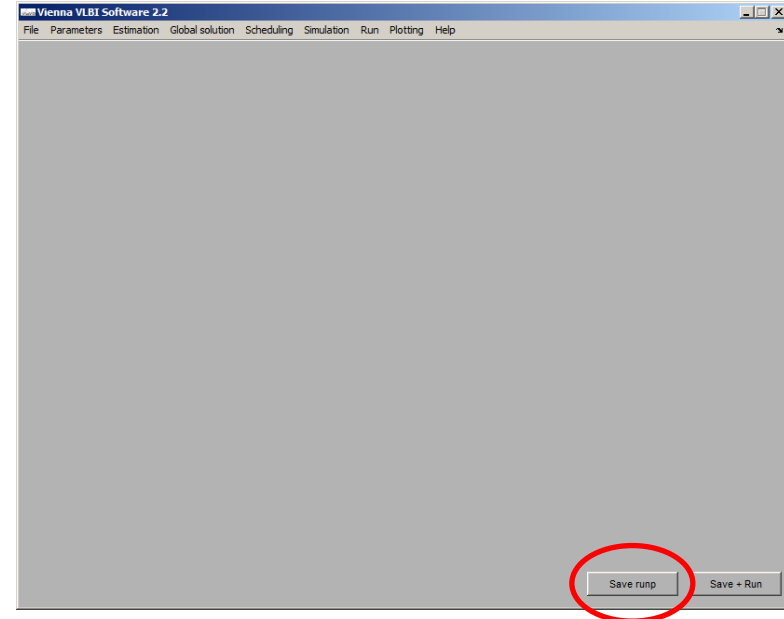
- `>> views` opens current GUI version
- `>> views('21')` opens GUI of version 2.1
- `>> views('batch')` runs batch version of views

GUI = Prepare processing

Batch = Do processing

vie_setup

- Save runp („Last user action in GUI“)
- Creates input protocol
 - Saves runp.mat
 - Saves process_list.mat
 - Saves parameter.mat file(s)
 - Saves sched, sim and glob parameters



Input protocol

- input_protocol.txt in /WORK/
- Saves GUI options (models,...) in textfile
- For user information (not used in processing!)

```
1 created [yr mon day h min sec]: 2012 9 4 11 16 51
2
3
4 selected input files and models
5
6 -----
7
8 OPT directory: IGG08R01
9 OUTLIER directory:
10 remove outliers: 0
11
12 a priori TRF file: ../TRF/superstation.mat
13 TRF field (for main station file): vtrf2008
14
15 a priori CRF: ICRF2
16
17 cut-off elevation angle: 0 degree
18 quality code limit: 0
19
20 info about pressure and temperature: ngs
21 info about ionosphere: ngs
22
23 ephemerides: jpl_421
24
25 EOP file: C04_08
26 ocean tides: interpf (Conventions)
27 libration in xpol, ypol: 1
28 libration in UT1: 1
29 EOP interpolation: lagrange
30 tidal UT variations: 1
31
32 precession/nutation model: IAU_2006/2000A
33
34 solid Earth tides: 1
35 tidal ocean loading: 1 , FES2004.mat
36 tidal atmosphere loading: 1 , s12_cm_noib_leonid.mat
37 non-tidal atmosphere loading: 1 , GSFC
38 pole tide: 1 , mean pole model: cubic
39 ocean pole tide: 1 , mean pole model: cubic
40 hydrology loading: 0 , GSFC
41
42 antenna thermal deformation: 1
43 a priori troposphere gradients: zero
44 mapping functions: VM1
45
```

Runp.mat

- In /WORK/
- Is overwritten (exists once)
- Gives:
 - paths (LEVELx subfolders)
 - 1|0 for all modules
- Parallel running information

```
>> load('D:\VieVS\WORK\runp.mat')
>> runp

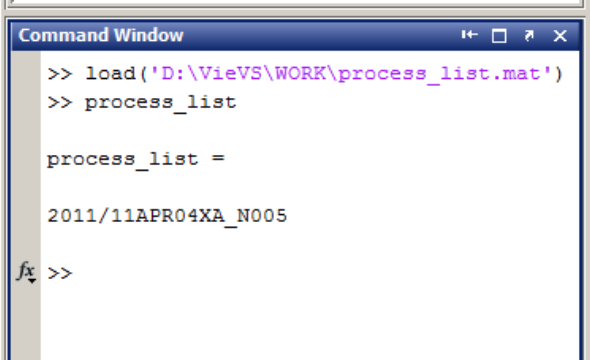
runp =

    init_path: [1x56 char]
    mod_path:  [1x56 char]
    lsm_path:  [1x56 char]
    glob_path: [1x56 char]
    sched:    0
    init:     1
    mod:      1
    lsm:      1
    lsm_scanwise: 0
    parallel: 0
    nCores:   {'auto'}
    glob:     0
```

```
f1 >>
```

Process_list.mat

- In /WORK/
- Is overwritten (exists once)
- Gives VLBI experiments (one line = one session)



```
Command Window
>> load('D:\VieVS\WORK\process_list.mat')
>> process_list

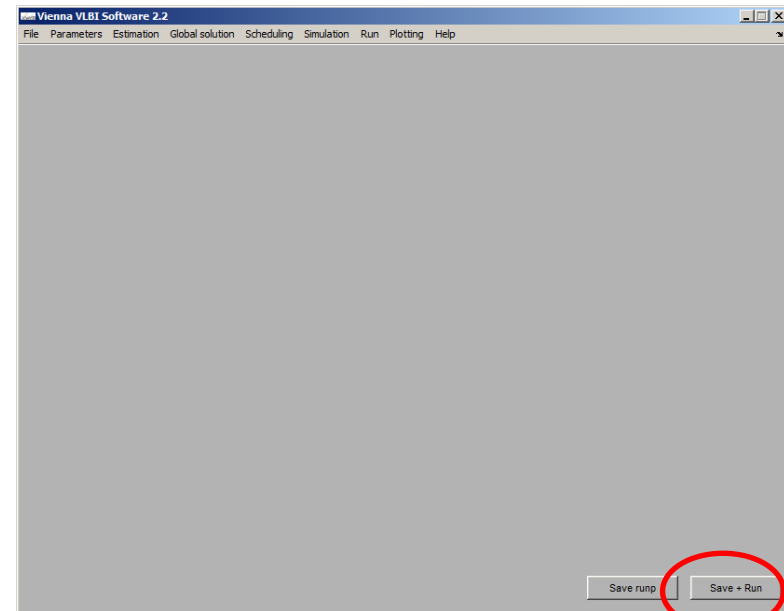
process_list =

2011/11APR04XA_N005

fx >>
```

Vie_batch (1)

- Does (batch) processing
- E.g. `vie_batch2_2.m`
- Independent from GUI
- Does processing (`vie_init`, `vie_mod`, `vie_lsm`, ...)



Vie_batch (2)

