Source structure simulation in VieVS2_2

1. Catalogs

   The catalogs containing source structure shall be stored in
   VieVS/CRF/SOURCE_STRUCTURE_CAT/*.cat

2. Calculate and write jet angles to file

   This is done in vie_mod.
   In the GUI, select the catalog in Parameters→Source structure
   Then you can click the checkboxes for
   → Apply source structure correction: the calculated delay is corrected for ss
   → Write jet angles: the jet angles for each observation are written to
     VieVS/DATA/JETANG/session(1:9).JET

3. Simulate source structure

   Choose the catalog in the sim GUI. If you only want to simulate source structure, you
   might need to enter a small white noise as well (e.g. 0.001 ps).

4. Throw out observations with certain jet angles

   In Parameters→Observation restrictions you can set a jet angle. Observations with a
   higher angle than this are thrown out. In the Command window you will find the
   corresponding information, with the first value indicating the jet_ang and the second
   number giving the number of excluded scans.
   If you don't want to exclude observations, be sure that you write 'none' in the
   corresponding box.

   read JET file: ../DATA/JETANG/11SEP29XA.JET
   Number of scans to be excluded due to jet angle: 0.8 2195

   read JET file: ../DATA/JETANG/11SEP29XA.JET
   Number of scans to be excluded due to jet angle: 0.6 3722

UPDATE:

1. Catalogs: CRF/SOURCE_STRUCTURE_CAT
2. Create Folder: DATA/JETANG
3. COMPILE/VIE_SIM/   vie_sim.m
                        modDelay.m
                        modVis.m
4. COMPILE/VIE_MOD/   vie_mod.m
5. COMPILE/VIE_INIT/   vie_init.m
                        readJET.m
                        read_ngs.m
6. COMPILE/VIE_SETUP/   vievs2_2.m
                        Vievs2_2.fig

Lucia, 12-02-2014