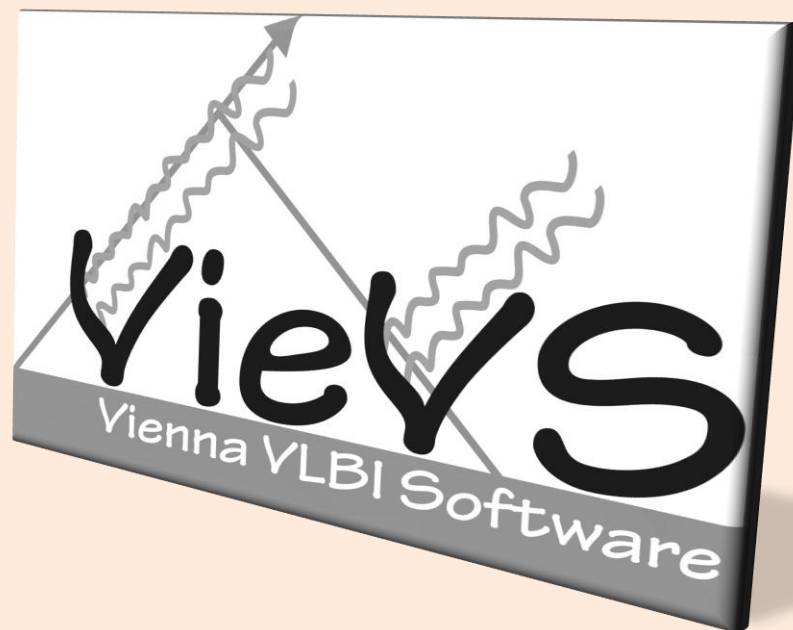


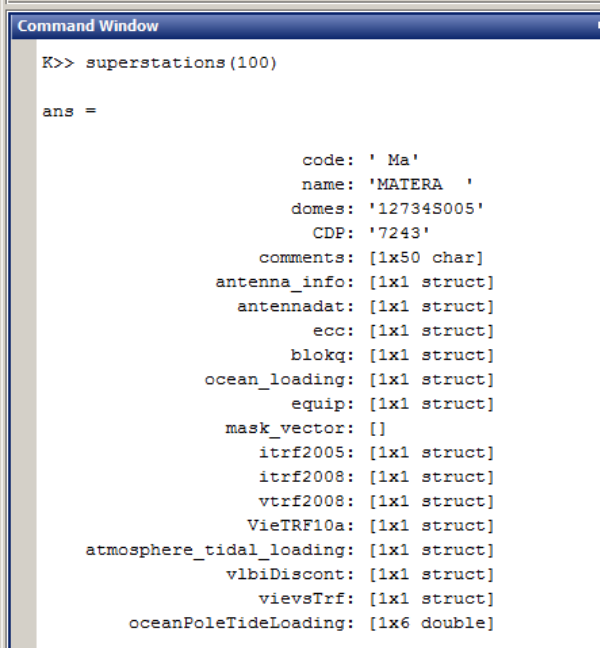
Superstation file

Matthias Madzak



Superstation file

- Binary (.mat) file containing all static station-dependent data
 - TRF (e.g. coordinates)
 - Tidal (harmonic) loading
 - Eccentricities
 - Antenna information
 - ... let's have a look: VieVS/TRF/superstation.mat



```
Command Window
K>> superstations(100)

ans =

        code: 'Ma'
        name: 'MATERA '
        domes: '12734S005'
         CDP: '7243'
  comments: [1x50 char]
 antenna_info: [1x1 struct]
 antennadat: [1x1 struct]
         ecc: [1x1 struct]
        blokq: [1x1 struct]
 ocean_loading: [1x1 struct]
         equip: [1x1 struct]
  mask_vector: []
      itrf2005: [1x1 struct]
      itrf2008: [1x1 struct]
      vtrf2008: [1x1 struct]
    VieTRF10a: [1x1 struct]
atmosphere_tidal_loading: [1x1 struct]
      vlbiDiscont: [1x1 struct]
        vievsTrf: [1x1 struct]
oceanPoleTideLoading: [1x6 double]
```

Reference frames

- Following frames can be chosen in VieVS
 - ITRF2005
 - ITRF2008
 - VTRF2008
 - VieTRF10a
 - viewsTrf (= backup)
 - User own TRF



Loading

- Ocean tidal loading:
 - FES2004, GOT00, EOT08a, TPXO72, AG06
 - User own
- Ocean pole tide loading
 - User own
- Atmosphere tide loading
 - GSFC Group
 - T. Van Dam
 - User own

Additional information

- Antenna.dat
- Antenna-info.txt
- Eccentricities
- Blokq.dat
- Equipment
- Horizon mask
- Discontinuities



Questions?

Let's start with the exercise...