

# Exercise

## External tropospheric files in VieVS



### Tasks

1. Use external tropospheric files to process session 08APR22XA\_N004 using following models:
  - (a) Surface pressure ( $p_0$ ), Vienna Mapping Function1 (VMF1)
  - (b) ECMWF, VMF1 (only hydrostatic part)
  - (c) ECMWF, VMF1 (hydrostatic and wet part)
2. Compare the estimated zenith wet delays - which model yields the smallest values? Why?

### Load and plot data

```
>>> model1 = load('../DATA/LEVEL3/subfolder1/x_08APR22XA_N004.mat');  
>>> model2 = load('../DATA/LEVEL3/subfolder2/x_08APR22XA_N004.mat');  
>>> model3 = load('../DATA/LEVEL3/subfolder3/x_08APR22XA_N004.mat');  
  
>>> plot(model1.x_.zwd(1).val, '-rx')  
>>> hold on  
>>> plot(model2.x_.zwd(1).val, '-ko')  
>>> plot(model3.x_.zwd(1).val, '-bs')  
>>> legend('model1', 'model2', 'model3')
```

