
2.5: Process all of the data

```
function allGPS
dir 'H:\Classes_Teaching_Fall 2016\Computation\GEOS397\Homework\07';
myFolderInfo= dir('*.neu');

for n=1:7;
    getGPSdata(myFolderInfo(n).name)
end

end
```

```
.          dam2CleanUnf.neu
..         earthLayers.m
GEOS397_HW7_ColtonandSchuler.m  getGPSdata.m
GEOS397_HW7_ColtonandSchuler.pdf getGPSdata.pdf
GEOS597_HW7_ColtonShuler       kbrcCleanUnf.neu
allGPS.m                      p729CleanUnf.neu
ana1CleanUnf.neu              pdf
bbdmCleanUnf.neu              sphereVolume.m
cirxCleanUnf.neu              sphereVolume.pdf
cmp9CleanUnf.neu
```

```
Site Name: ana1
Time span: 11.15 [yrs]
Number of days with data: 3862
Total north displacement:    25.00 [cm]
Total east displacement:    -45.48 [cm]
Total vertical displacement:  1.35 [cm]
Avg north velocity:         2.24 [cm/yr]
Avg east velocity:         -4.08 [cm/yr]
Avg vertical velocity:      0.12 [cm/yr]
```

```
Site Name: bbdm
Time span: 12.79 [yrs]
Number of days with data: 4543
Total north displacement:    26.15 [cm]
Total east displacement:    -52.17 [cm]
Total vertical displacement:  0.27 [cm]
Avg north velocity:         2.05 [cm/yr]
Avg east velocity:         -4.08 [cm/yr]
Avg vertical velocity:      0.02 [cm/yr]
```

```
Site Name: cirx
Time span: 12.71 [yrs]
Number of days with data: 4445
Total north displacement:    25.44 [cm]
Total east displacement:    -50.71 [cm]
Total vertical displacement: -0.40 [cm]
Avg north velocity:         2.00 [cm/yr]
Avg east velocity:         -3.99 [cm/yr]
```

Avg vertical velocity: -0.03 [cm/yr]

Site Name: cmp9

Time span: 18.04 [yrs]

Number of days with data: 6240

Total north displacement: 24.91 [cm]

Total east displacement: -66.29 [cm]

Total vertical displacement: 1.32 [cm]

Avg north velocity: 1.38 [cm/yr]

Avg east velocity: -3.68 [cm/yr]

Avg vertical velocity: 0.07 [cm/yr]

Site Name: dam2

Time span: 17.87 [yrs]

Number of days with data: 4702

Total north displacement: 24.38 [cm]

Total east displacement: -64.41 [cm]

Total vertical displacement: 0.28 [cm]

Avg north velocity: 1.36 [cm/yr]

Avg east velocity: -3.61 [cm/yr]

Avg vertical velocity: 0.02 [cm/yr]

Site Name: kbrc

Time span: 12.53 [yrs]

Number of days with data: 4325

Total north displacement: 15.70 [cm]

Total east displacement: -48.26 [cm]

Total vertical displacement: 0.63 [cm]

Avg north velocity: 1.25 [cm/yr]

Avg east velocity: -3.85 [cm/yr]

Avg vertical velocity: 0.05 [cm/yr]

Site Name: p729

Time span: 6.46 [yrs]

Number of days with data: 2354

Total north displacement: 12.39 [cm]

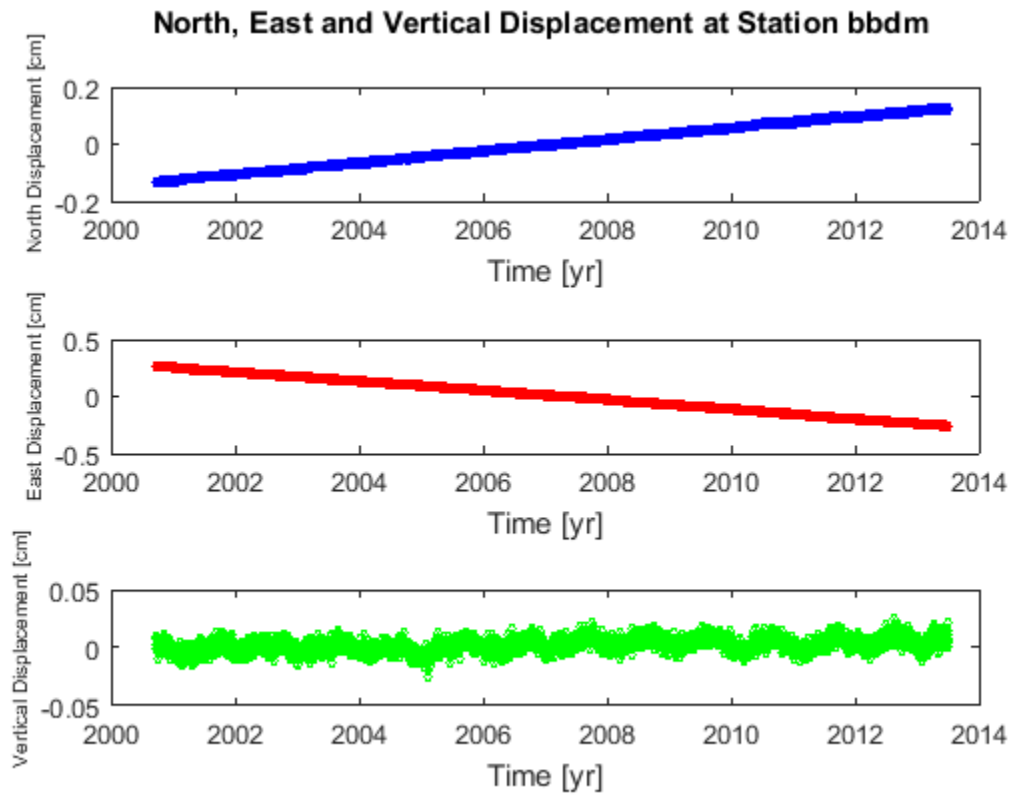
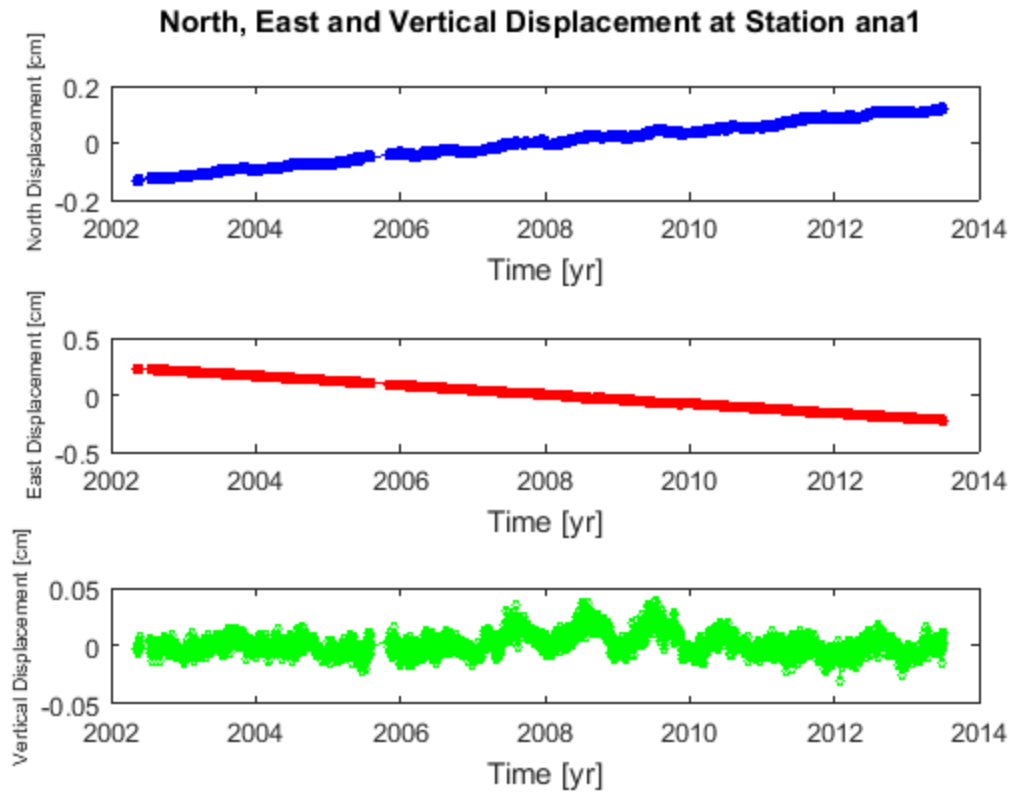
Total east displacement: -26.83 [cm]

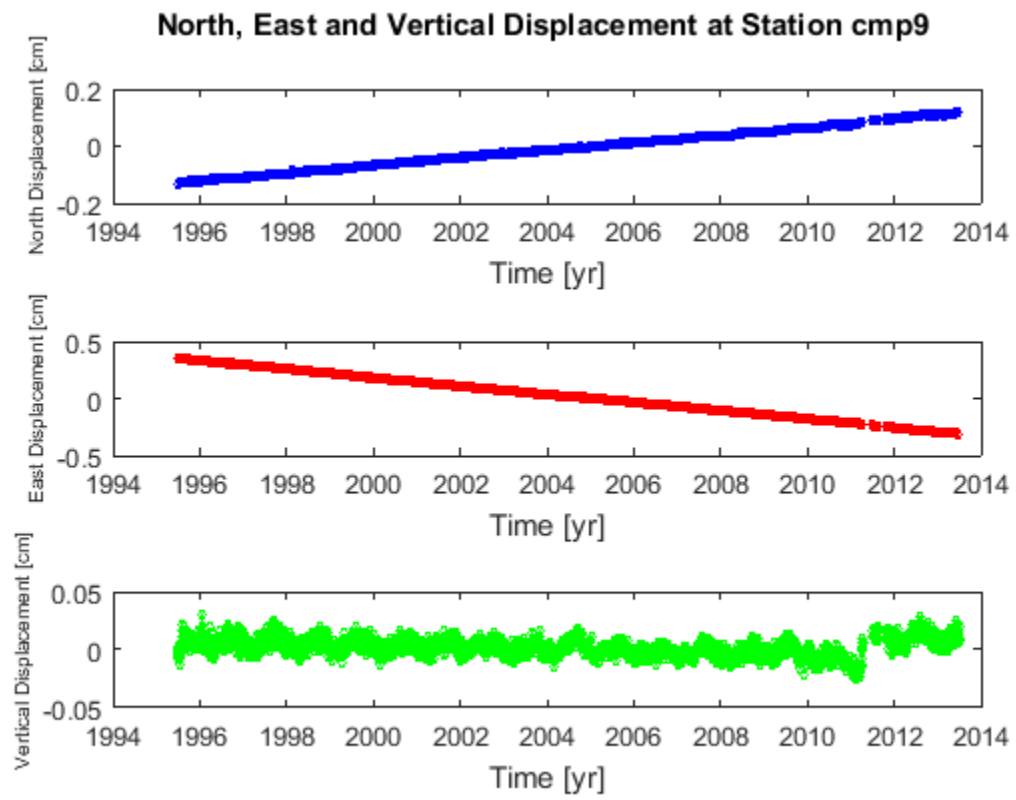
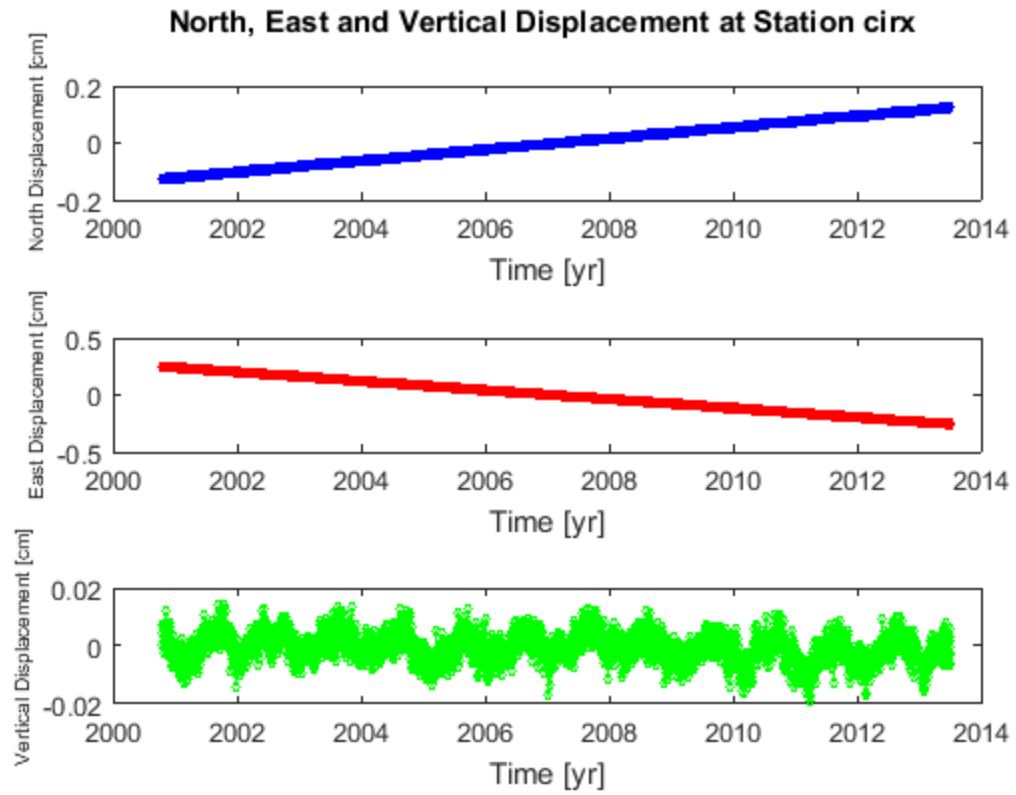
Total vertical displacement: -2.60 [cm]

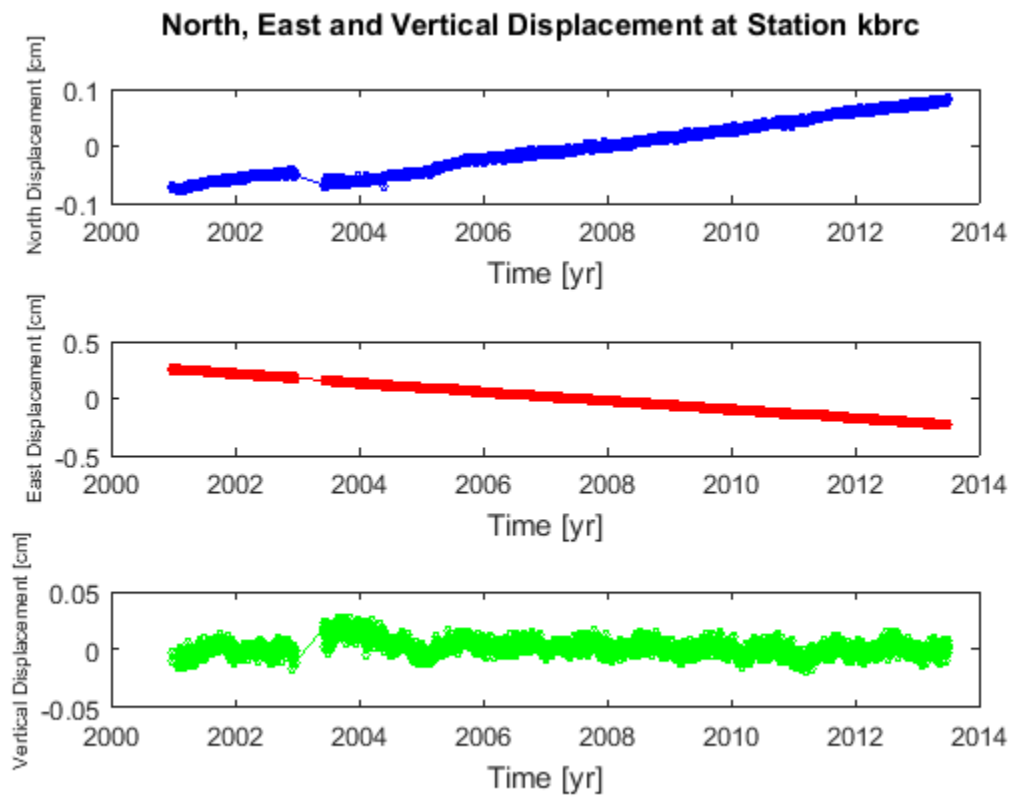
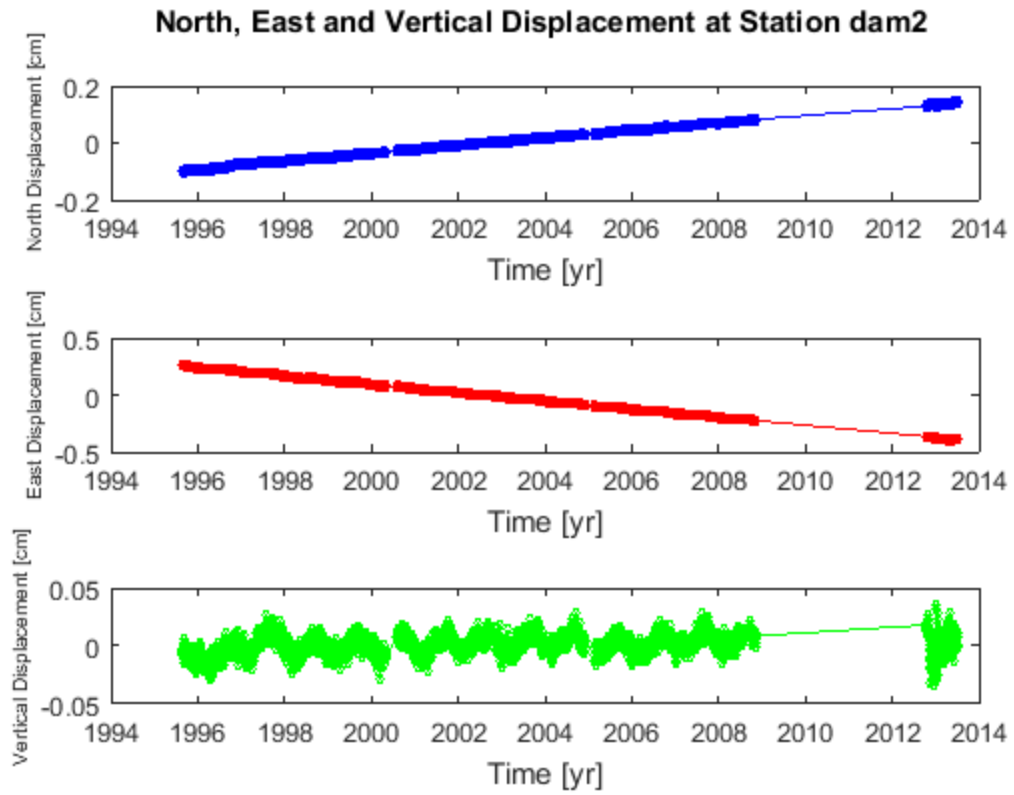
Avg north velocity: 1.92 [cm/yr]

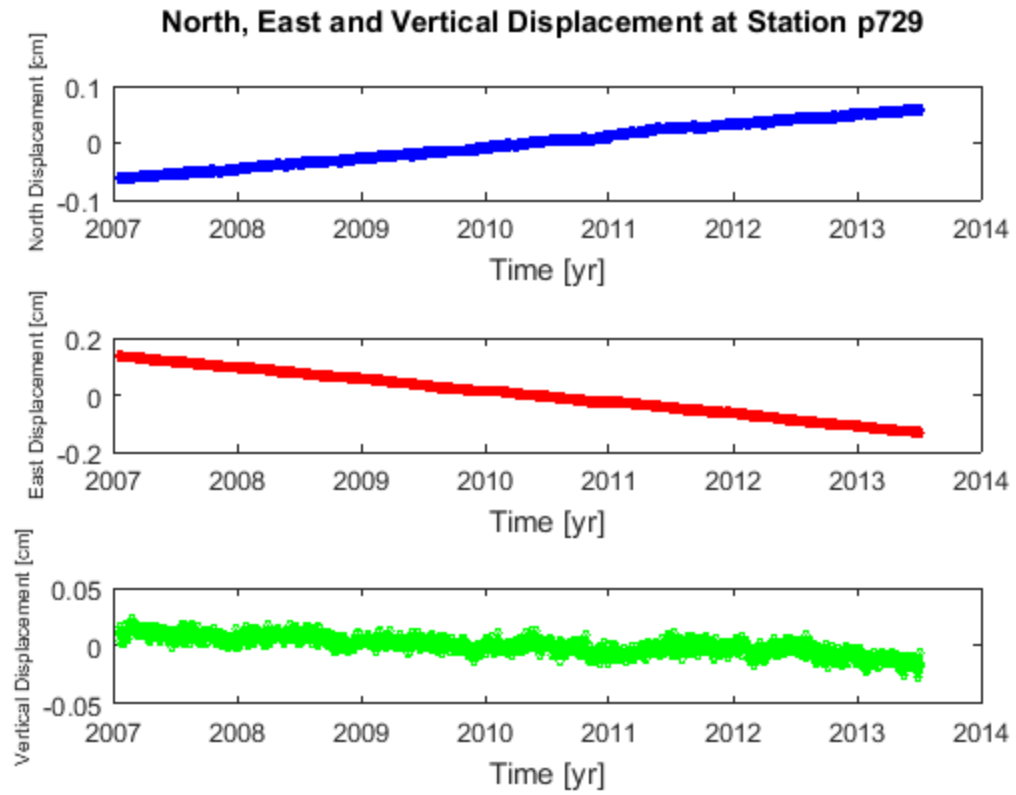
Avg east velocity: -4.15 [cm/yr]

Avg vertical velocity: -0.40 [cm/yr]









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