

Steps:

1. Create a measuring configuration

C1 C2 P1 P2

1 2 3 4

....

Maximum of 36 electrodes

2. Convert the configuration to the format given in ./ meas1\_afo.dat:

# data

10002 30004 - (C1\*10000)+C2 (P1\*10000)+P2

Save the file as NAME.dat

3. Modify the 5<sup>th</sup> line in CRMod.cfg to the name of the configuration made (NAME.dat)
4. Modify the 8<sup>th</sup> line with the name of the file with the modeled data (for the new measuring protocol) (model\_data\_NAME.txt)
5. Double click in CRMod\_stable.exe
6. Modify the 4<sup>th</sup> line in crmod.cfg with the name of the output file in CRMod (model\_data\_NAME.txt)
7. Modify the 5<sup>th</sup> line in crmod.cfg for the output path for the inversion results
8. Double click in CRTomo\_i686\_no\_optim.exe

Task:

1. Create a new measuring protocol (at least 200 measurements)
2. Run the forward model (CRMod\_stable) to create a numerical data set (modeled data)
3. Plot the pseudosection of the modeled data with the routine pseudosection.m
4. Run the inversion of the modeled data with CRTomo\_i686\_no\_optim.exe
5. Plot the inversion results as obtained by the last iteration (maximum number rho##.mag in the inv folder) with help of the plot\_res.m

The report should be delivered electronically and should contain the plot of the pseudosection , as well as the plot of the inverted resistivity values

For a grade of 1 it is necessary to come along with a comparison between the initial model (model.txt) and the resistivity model coming from the inversion