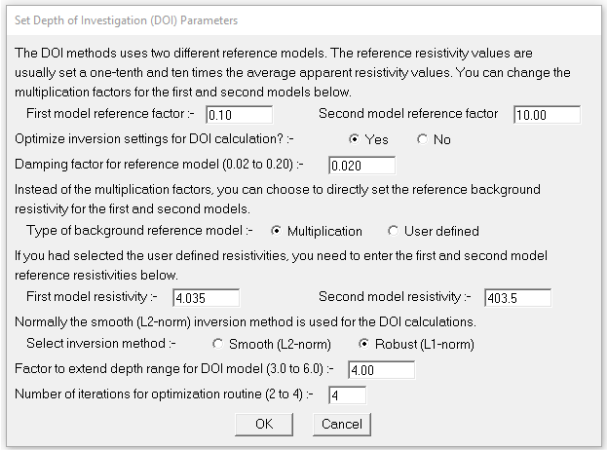
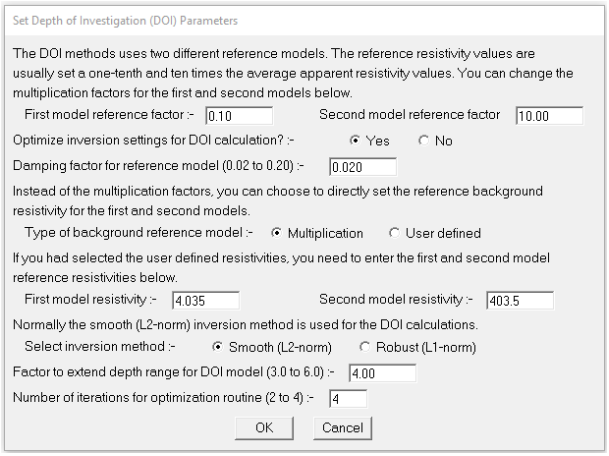
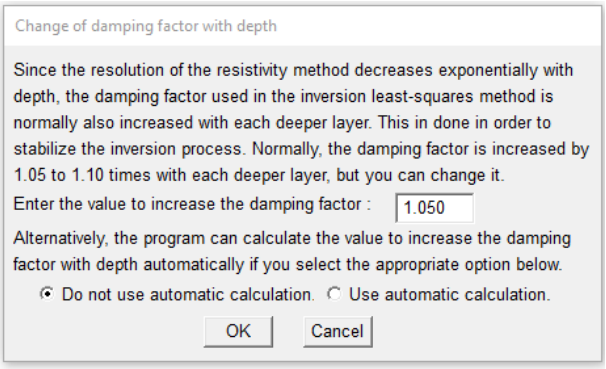
Supplementary material

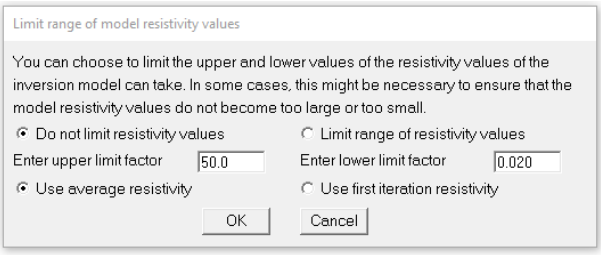
Annex S1. Depth of Investigation (DOI) parameters

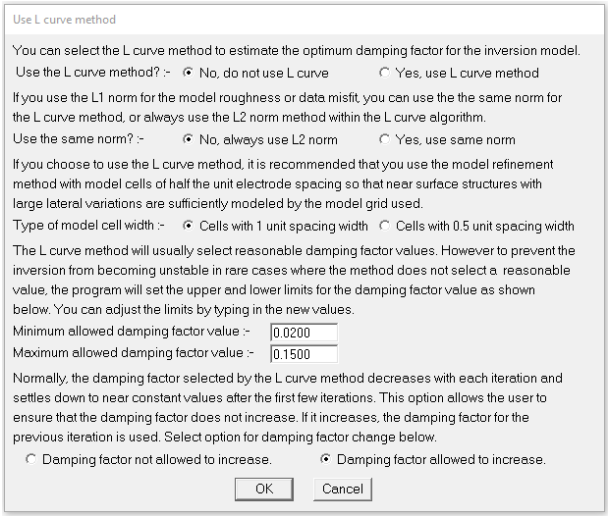
ERT 1

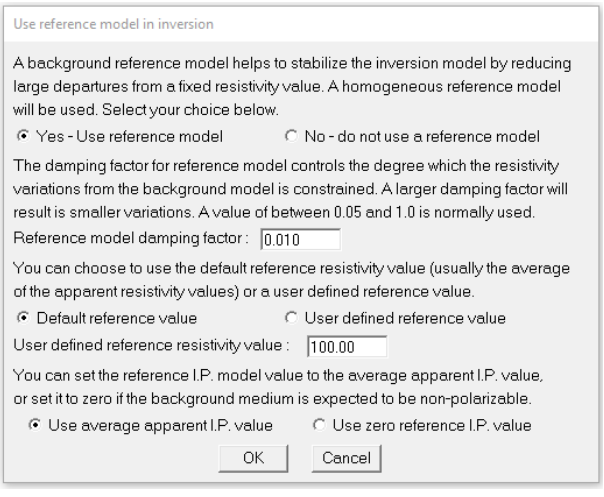




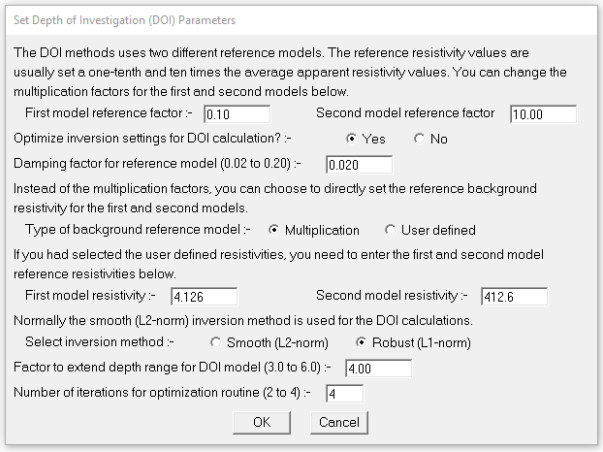




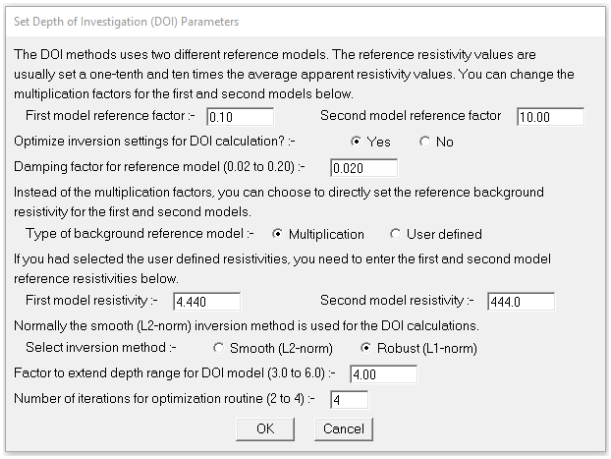




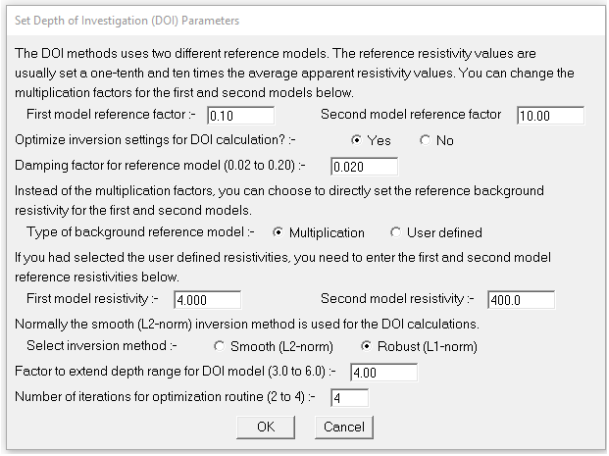
ERT 2



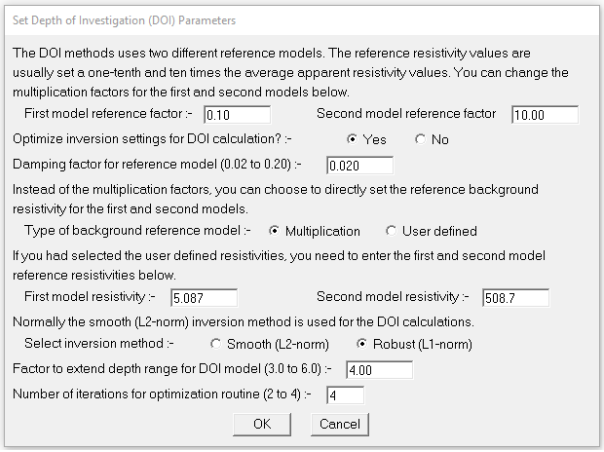
ERT 3



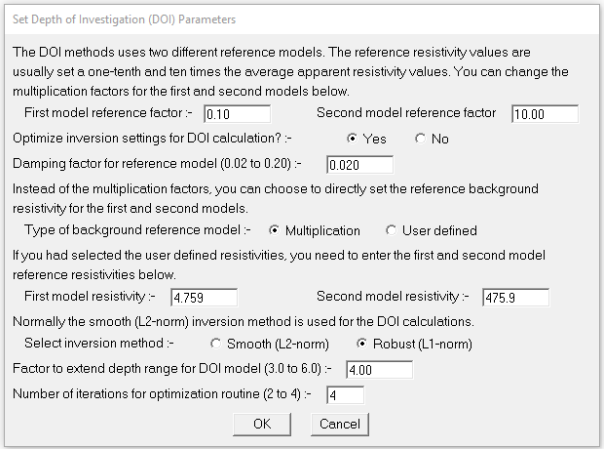
ERT 4



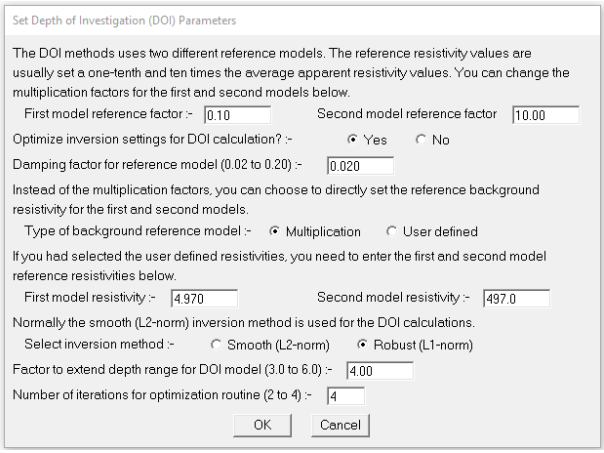
ERT 5



ERT 7

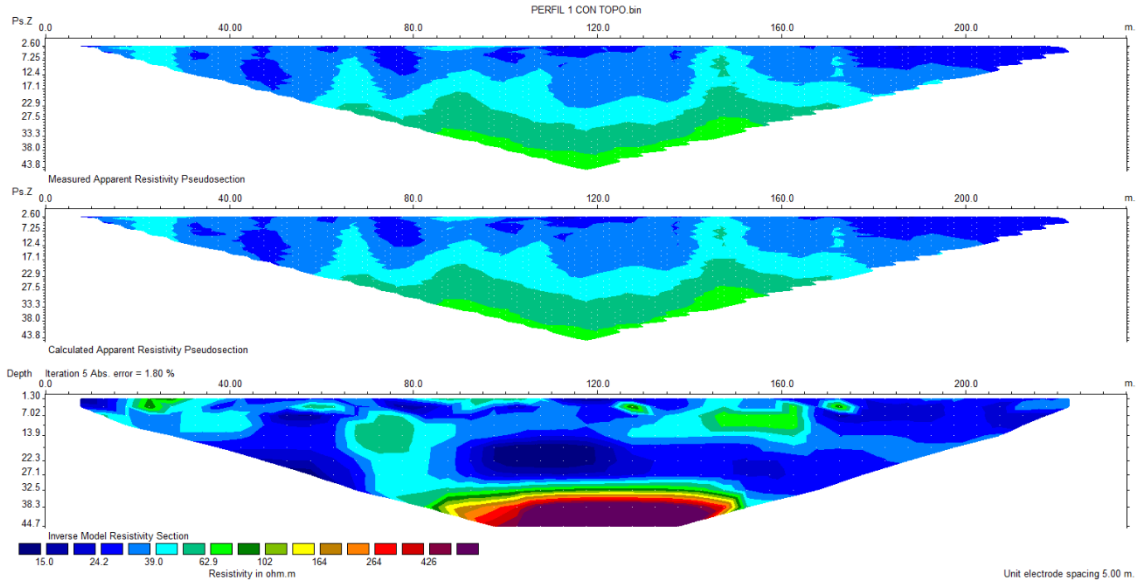


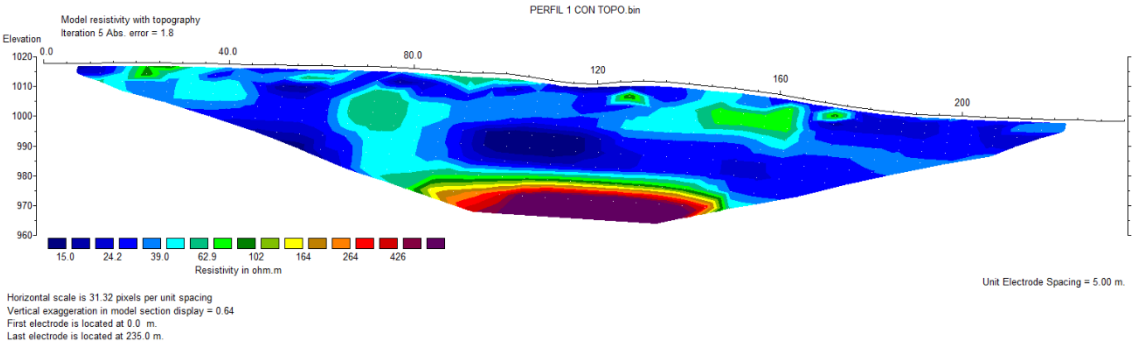
ERT 8



Annex S2. Measured apparent resistivity pseudosections, calculated apparent resistivity pseudosections , inverse model resistivity and model resistivity with topography

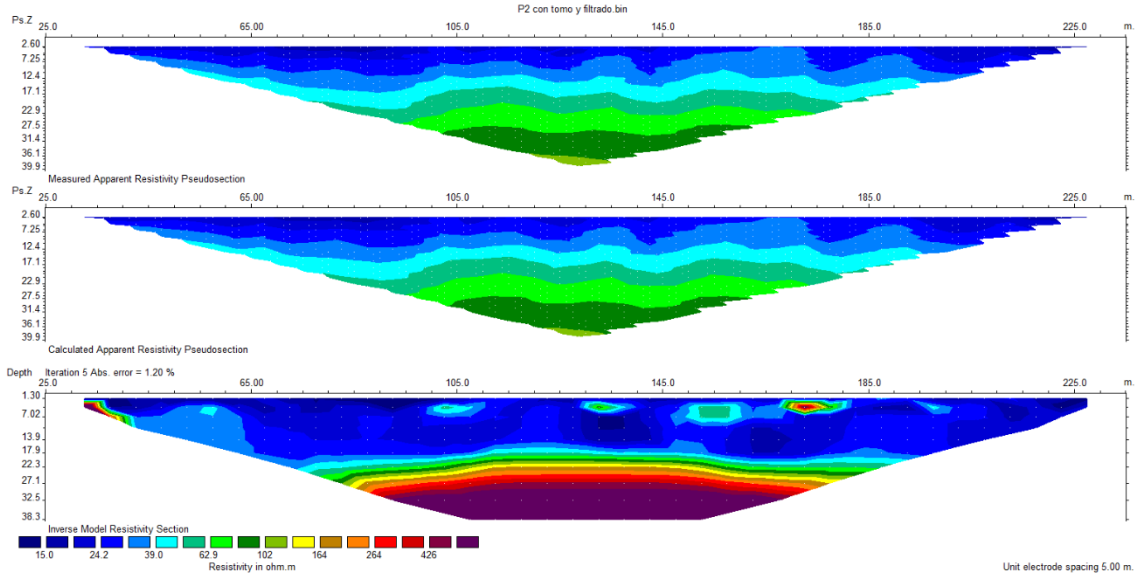
ERT 1

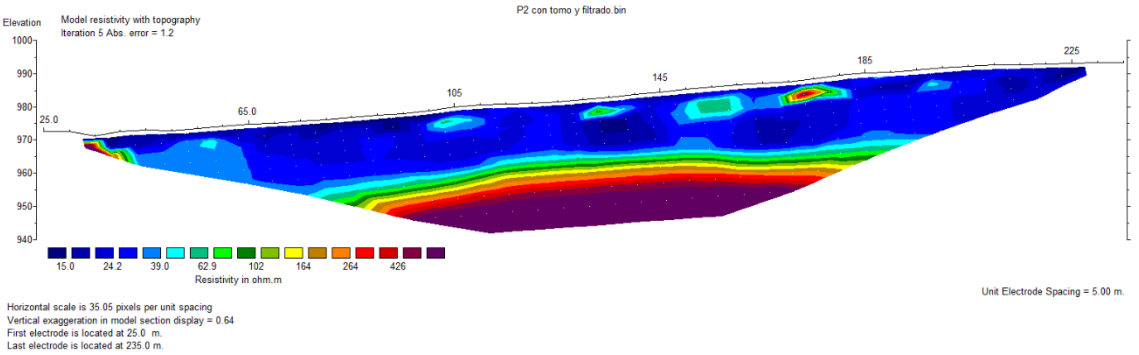




Horizontal scale is 31.32 pixels per unit spacing
Vertical exaggeration in model section display = 0.64
First electrode is located at 0.0 m.
Last electrode is located at 235.0 m.

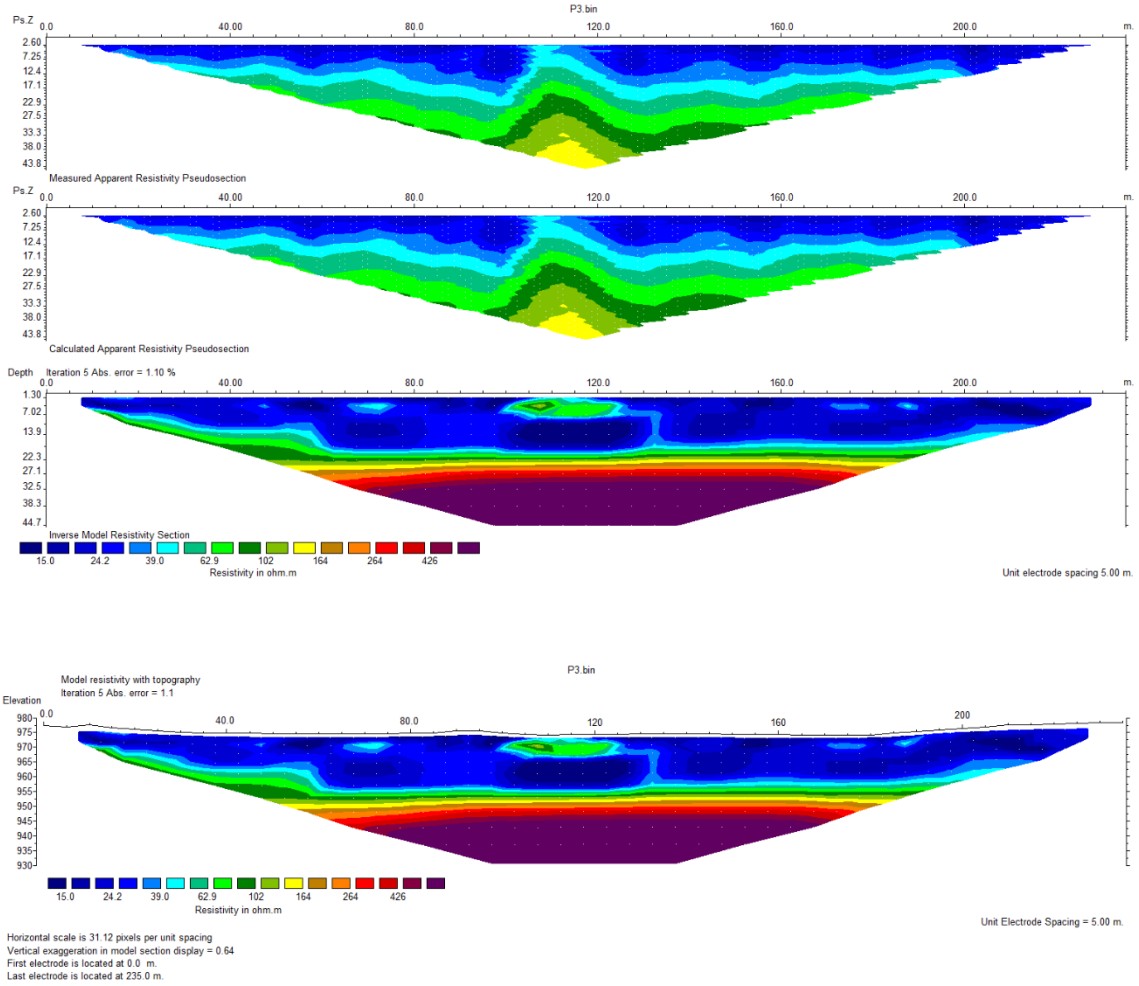
ERT 2





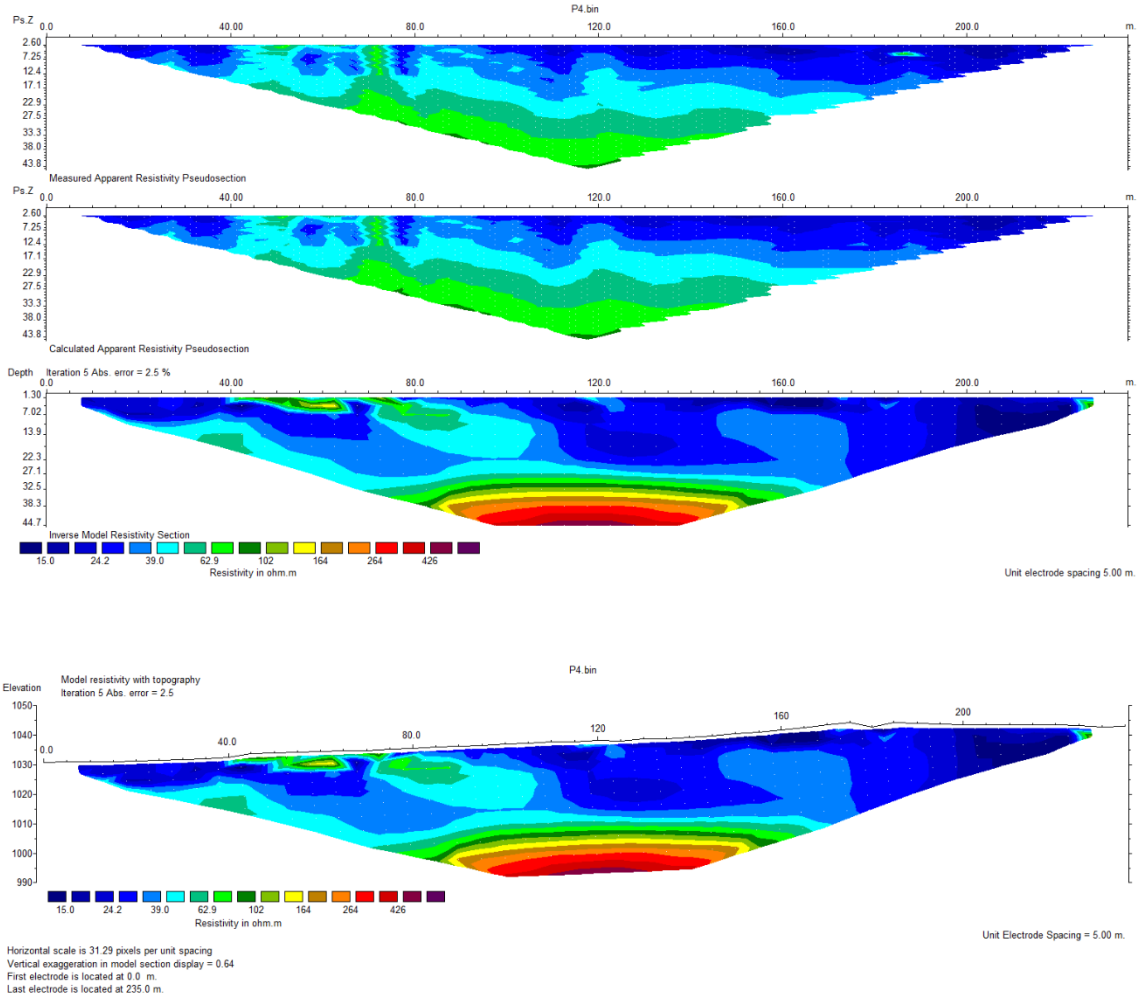
Horizontal scale is 35.05 pixels per unit spacing
Vertical exaggeration in model section display = 0.64
First electrode is located at 25.0 m.
Last electrode is located at 235.0 m.

ERT 3



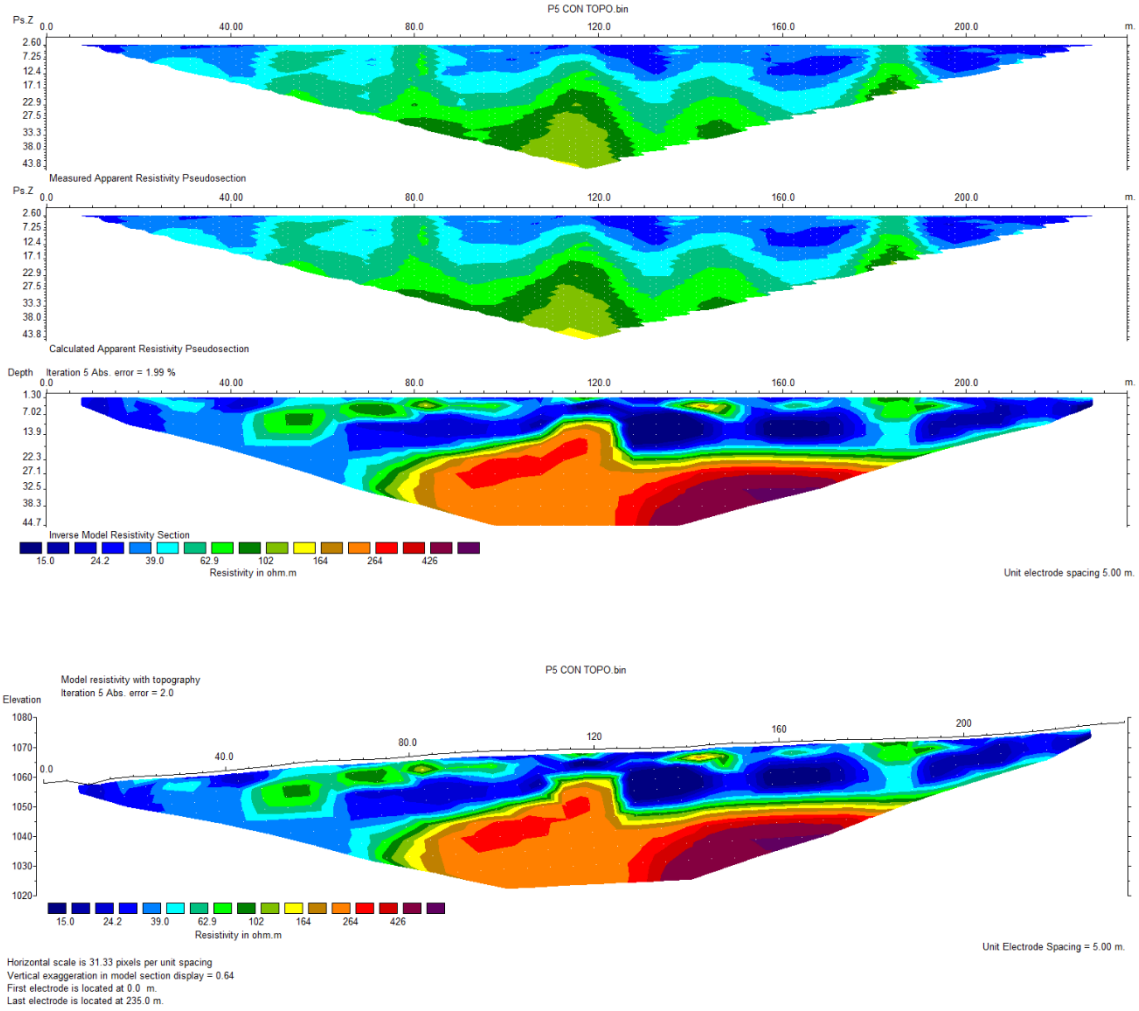
Horizontal scale is 31.12 pixels per unit spacing
Vertical exaggeration in model section display = 0.64
First electrode is located at 0.0 m.
Last electrode is located at 235.0 m.

ERT 4



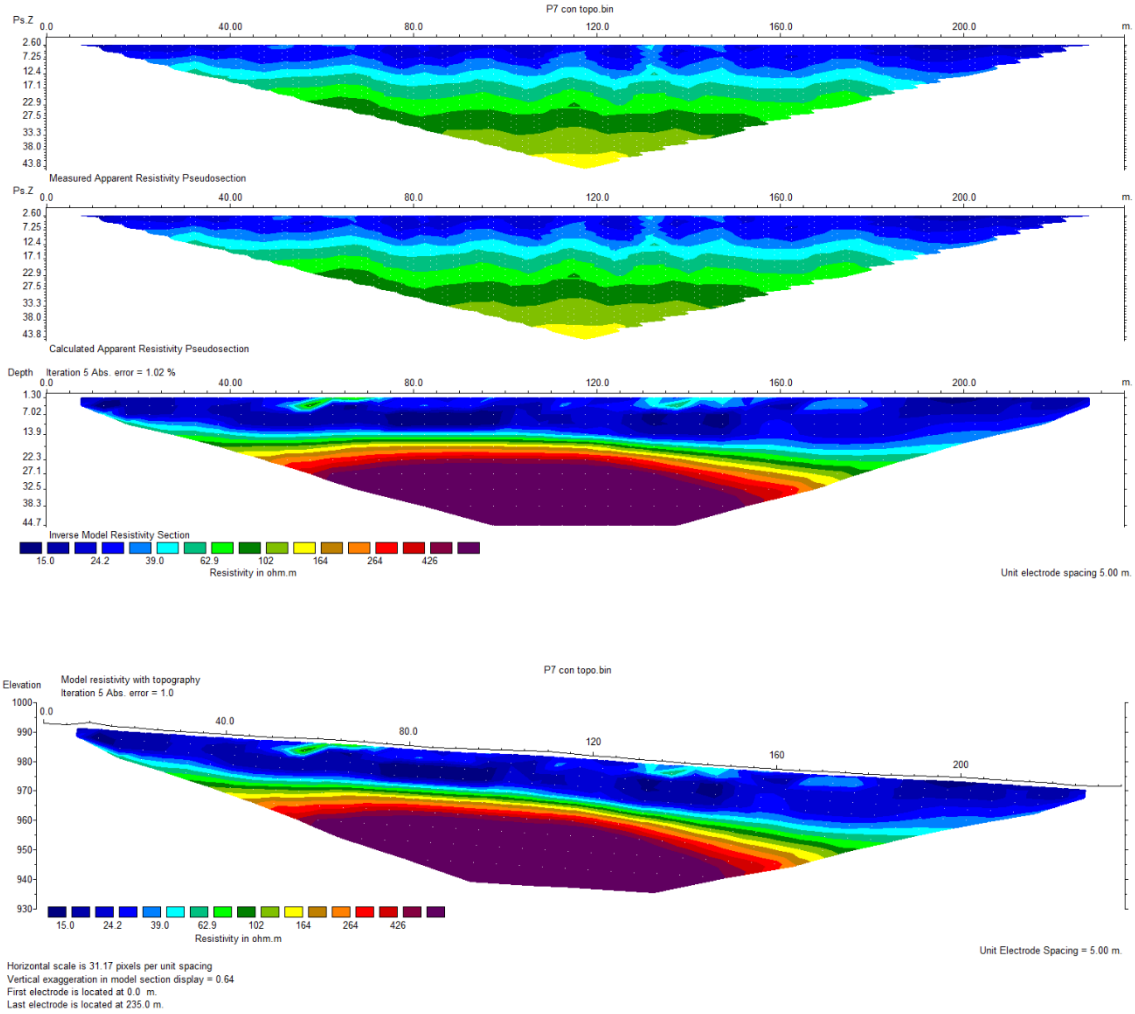
Horizontal scale is 31.29 pixels per unit spacing
Vertical exaggeration in model section display = 0.64
First electrode is located at 0.0 m.
Last electrode is located at 235.0 m.

ERT 5


P5 CON TOPO.bin
Ps.Z
0.0
40.00
80.0
120.0
160.0
200.0
m.
2.60
7.25
12.4
17.1
22.9
27.5
33.3
38.0
43.8
Measured Apparent Resistivity Pseudosection
Calculated Apparent Resistivity Pseudosection
Depth
Iteration 5 Abs. error = 1.99 %
1.30
7.02
13.9
22.3
27.1
32.5
38.3
44.7
Inverse Model Resistivity Section
15.0
24.2
39.0
62.9
102
164
264
426
Resistivity in ohm.m
Unit electrode spacing 5.00 m.

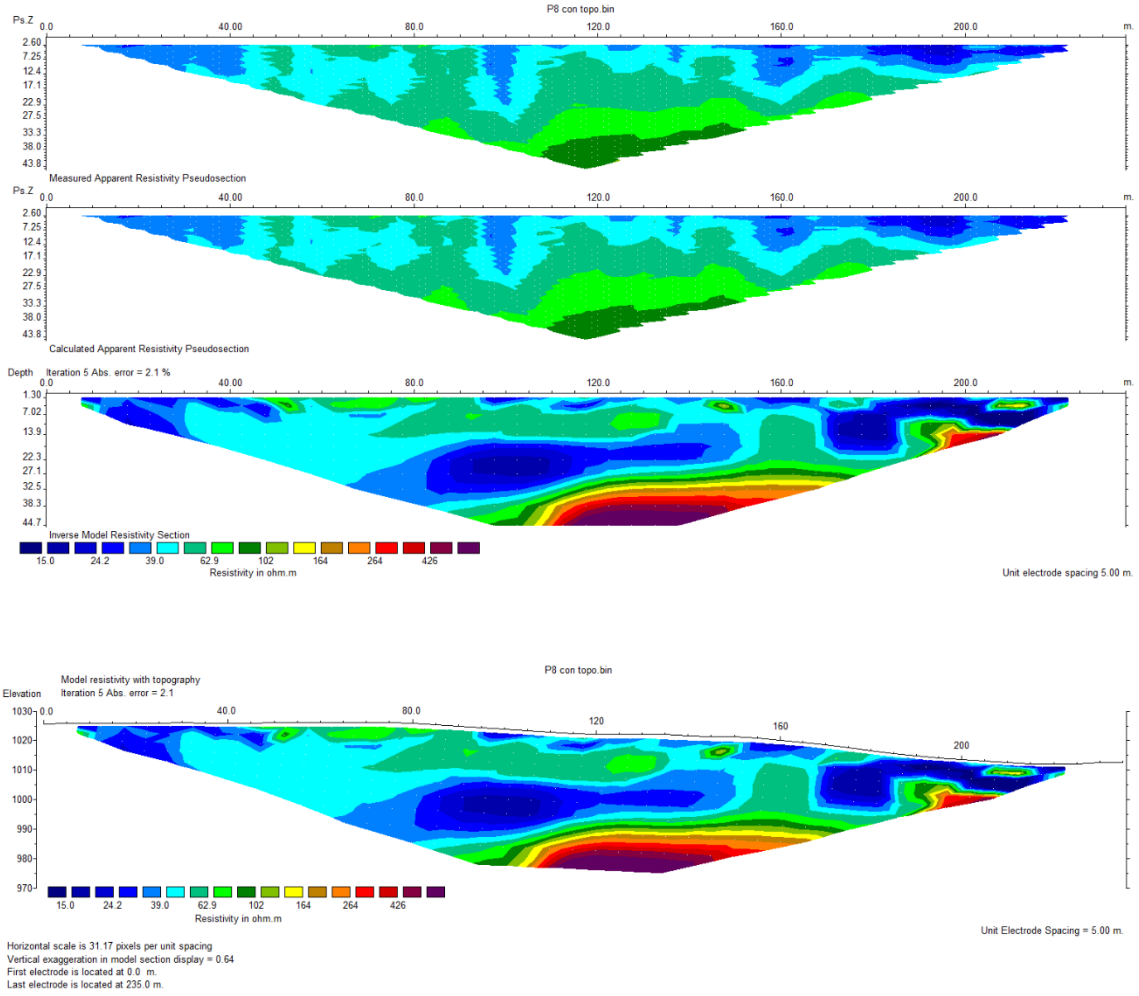
P5 CON TOPO.bin
Model resistivity with topography
Iteration 5 Abs. error = 2.0
Elevation
1080
1070
1060
1050
1040
1030
1020
0.0
40.0
80.0
120
160
200
15.0
24.2
39.0
62.9
102
164
264
426
Resistivity in ohm.m
Unit Electrode Spacing = 5.00 m.
Horizontal scale is 31.33 pixels per unit spacing
Vertical exaggeration in model section display = 0.64
First electrode is located at 0.0 m.
Last electrode is located at 235.0 m.

ERT 7



Horizontal scale is 31.17 pixels per unit spacing
Vertical exaggeration in model section display = 0.64
First electrode is located at 0.0 m.
Last electrode is located at 235.0 m.

ERT 8



Horizontal scale is 31.17 pixels per unit spacing
Vertical exaggeration in model section display = 0.64
First electrode is located at 0.0 m.
Last electrode is located at 235.0 m.