# How to use x2ipi with Res2dinv format data (Geotomo software, Malaysia)

Res2dinv format is the main format ERT data.

## 1.1. Remove bad points from data file

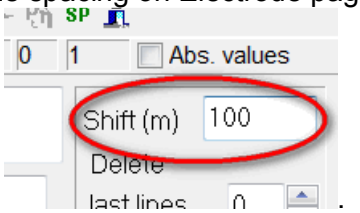
There are many options to remove bad point from data file.

1. Trimming bad measurements signal level, quality factor, apparent resistivity or chargeability range.
2. Remove data from bad electrodes or .
3. Remove bad point on pseudo-section in Display, on Profiling page or Soundings page.
4. Remove some spacing on Spacing page.

All removed point could be restored.

## 1.2. Correct X-coordinate

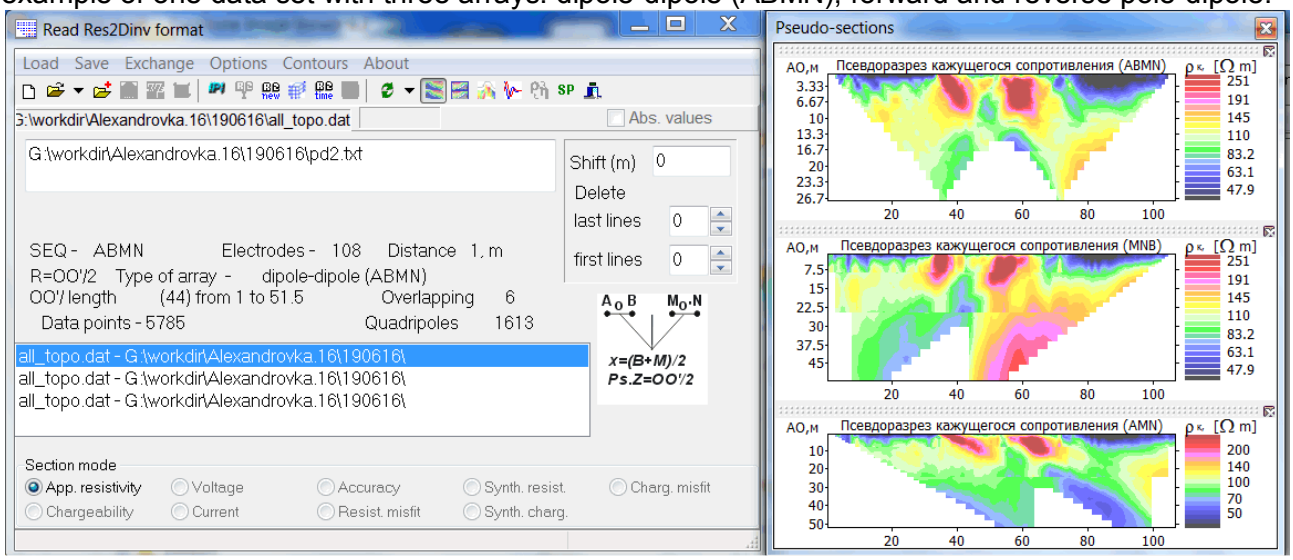
X-coordinate could be corrected by the next ways:

- Change inter-electrode spacing on Electrode page.
- Shift all X-coordinate  .
- Mirror profile by Exchange menu.



## 1.3. Merge different array and different cable setup in one data set

To merge some data set in one file just open all date sets and save them in Res2dinv format . The ***x2ipi*** software could show data for different array on different pseudosections. This is the example of one data set with three arrays: dipole-dipole (ABMN), forward and reverse pole-dipole.

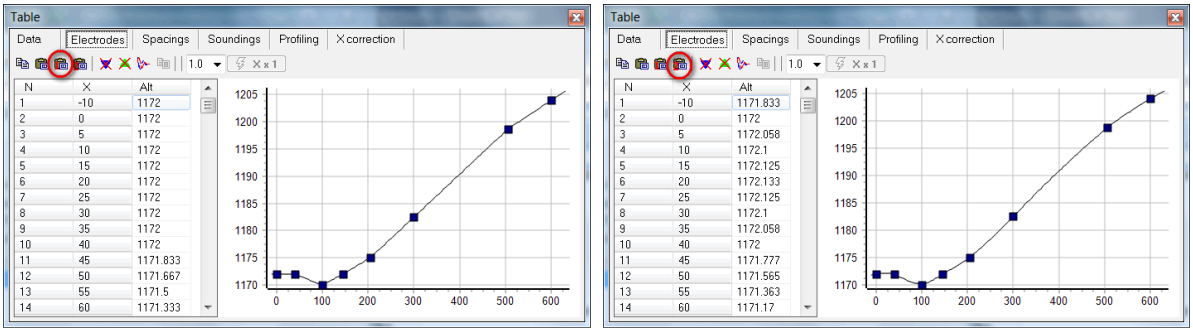


## 1.4. Input topography

The simplest way is preparing table X and Altitude coordinate table in any spreadsheet application (like Microsoft Excel) and copy it to clipboard.

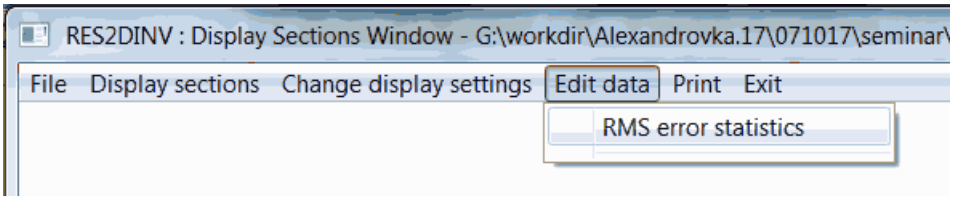
| | A | B |
|---|---|---|
| 1 | 0 | 1172 |
| 2 | 40 | 1172 |
| 3 | 100 | 1170 |
| 4 | 145 | 1172 |
| 5 | 205 | 1175 |
| 6 | 300 | 1182.5 |
| 7 | 505 | 1198.7 |
| 8 | 600 | 1204 |
| 9 | | |

Use one of these buttons to paste topography data (X and Alt) from the clipboard and to find each electrode elevation by linear or square interpolation.

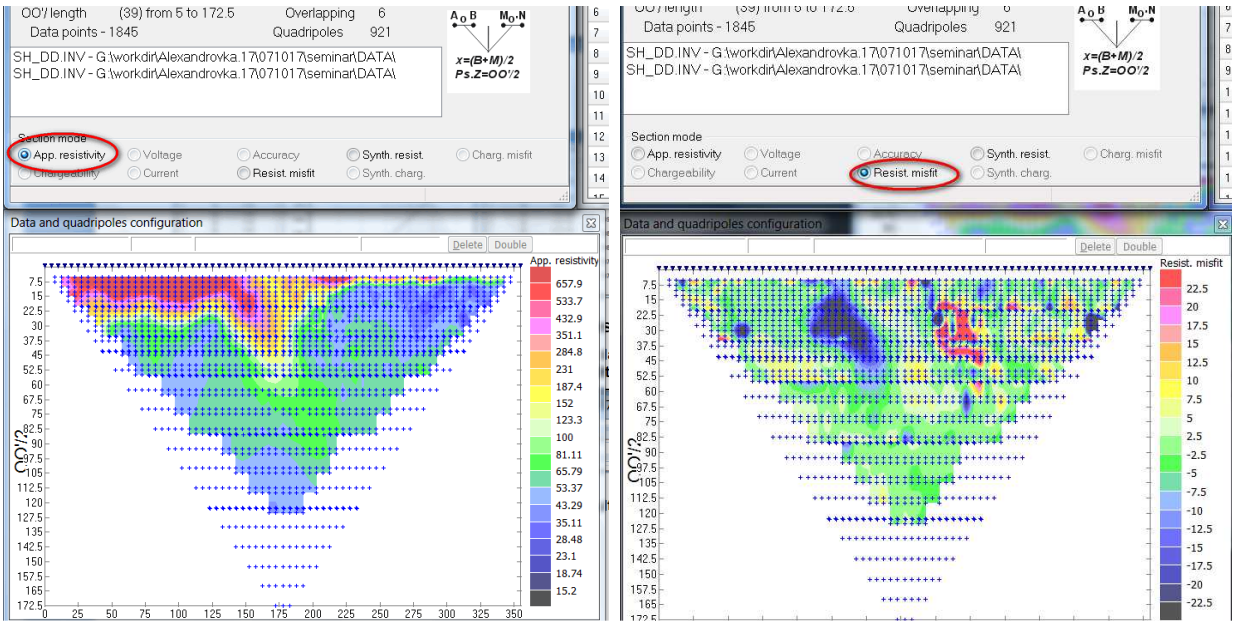



## 1.5. Analysis of inversion result (INV files)

The inversion results could be usually improved, if we remove data point with large misfit. There is an option in ***res2dinv*** software to remove such point - **Menu-Edit data-RMS error statistics**.




x2ipi could plot misfit pseudosection to analyze inversion result and remove data pint with large misfit.


OO'/ length (39) from 5 to 172.5 Overlapping 6
Data points - 1845 Quadripoles 921
SH_DD.INV - G:\workdir\Alexandrovka.17\071017\seminar\DATA\
SH_DD.INV - G:\workdir\Alexandrovka.17\071017\seminar\DATA\
x=(B+M)/2
Ps.Z=OO'/2
Section mode
App. resistivity
Voltage
Accuracy
Synth. resist.
Charg. misfit
Chargeability
Current
Resist. misfit
Synth. charg.
Data and quadripoles configuration
Delete
Double
App. resistivity
657.9
533.7
432.9
351.1
284.8
231
187.4
152
123.3
100
81.11
65.79
53.37
43.29
35.11
28.48
23.1
18.74
15.2
Resist. misfit
22.5
20
17.5
15
12.5
10
7.5
5
2.5
-2.5
-5
-7.5
-10
-12.5
-15
-17.5
-20
-22.5