

## ZTEM inversion results

ZTEM 2D inversion results are presented in Geosoft database, maps, grids, voxels, PDF files, and text files. Geosoft database, maps, voxels, and grids can be opened with Geosoft Oasis montaj or with the free Oasis montaj Viewer (<http://www.geosoft.com/support/downloads/viewers/oasis-montaj-viewer>). PDF files can be opened with Adobe reader.

Table 1 explains the files in the inversion directory.

There is a line-directory Lxxxx or Txxxx for each line. There are 7 files in each line directory. They are explained in Table 2.

If a line is too long, it will be divided into several sub-lines to invert. In that case, there will be several sub-line directories in that line directory. There are 7 files in each sub-line directory explained in Table 1. In the line directory, Lxxxx.xyz contains field data and the PDF files are inversion result presentations.

ZTEM 2D inversion results are stored in AB130076\_inv2D\_res.gdb. The meaning of each channel is explained Table 3.

The Resistivity\_depth\_slices directory contains grids and maps for resistivity depth-slices.

**Table 1. Files in the inversion directory**

File	Description
AB130076_ZTEM_2D inversion_results_V4.pdf	A summary of the inversion results
AB130076 2D ZTEM Inversion Start Model Test Results_L1104.pdf	Start model test results
AB130076_inv2D_res.gdb	Database of the inversion results
AB130076_inv2D_res_3D.map AB130076_inv2D_res_3D.map.xml	3D presentation of the inversion results, which contains 3D resistivity voxel and isosurfaces
AB130076_inv2D_res_3D_clip_f10.geosoft_voxel	Resistivity voxel
resistivity.zon	Resistivity color scale file used to show resistivity cross section, resistivity depth slices and voxels

**Table 2. Files in line or sub-line directory**

File	Description
datnav.inp	It is 2D ZTEM inversion input file, which contains x, y, distance, elevation, xip and xqd as well as their input errors for each frequency
Lxxxx.pdf or Txxxx.pdf	ZTEM 2D inversion results for that line
Lxxxx.xyz or Txxxx.xyz	ZTEM field data for that line
Lxxxx_res.grd Txxxx_res.grd	Resistivity grid obtained by 2D inversion
Lxxxx_res.grd.gi	Geosoft Oasis montaj produced company file to the grid.

Txxxx_res.grd.gi	
res_inv.xyz	Resistivity obtained by 2D inversion, which is used to make resistivity database
z_profile.xyz	It contains field XIPs and XQDs as well as model responses

**Table 3. Channels ZTEM 2D inversion database**

Channel	meaning
x	X_kkj coordinate (m)
y	Y_kkj coordinate (m)
dist	Distance from the south-east end of each line (m)
DEM	Digital elevation model (m)
Depth	Not used right now
Elevation	Elevation of each point. It is the z-coordinate for 3D gridding.
res	Resistivity at (x,y,elevation)
RD100	Resistivity at 100 m depth
RD200	Resistivity at 200 m depth
RD300	Resistivity at 300 m depth
RD400	Resistivity at 400 m depth
RD500	Resistivity at 500 m depth
RD600	Resistivity at 600 m depth
RD700	Resistivity at 700 m depth
RD800	Resistivity at 800 m depth
RD900	Resistivity at 900 m depth
RD1000	Resistivity at 1000 m depth
RD1100	Resistivity at 1100 m depth
RD1200	Resistivity at 1200 m depth
RD1300	Resistivity at 1300 m depth
RD1400	Resistivity at 1400 m depth
RD1500	Resistivity at 1500 m depth