# IX1D v 2

1D Sounding Interpretation

IX1D v 2 is a 1-D Direct Current (DC) resistivity, Induced Polarization (IP), Magnetotelluric (MT) and frequency electromagnetic sounding inversion program with the following features:

- Supports Most DC resistivity arrays, including: Wenner, Schlumberger Dipole-dipole Pole-dipole and Pole-pole arrays.

- Supports Resistivity only or Resistivity with IP measurements in terms of PFE, Chargeability in msec or Phase in mrad.

- Supports Magnetotelluric (MT) sounding inversion with Apparent Resistivity and Impedance Phase.

- Supports Horizontal Coplanar, Vertical Coplanar and Vertical Coaxial Electromagnetic in-phase and quadrature measurements made versus frequency, coil spacing or instrument height.

- IX1D v 2 has the capability to read in a resistivity well log from a flat ASCII file and the user can interactively reduce the log to several discreet layers by fitting straight line segments to the cumulative conductance in the log. The resulting model can be copies to the model in the current data set for further modeling.
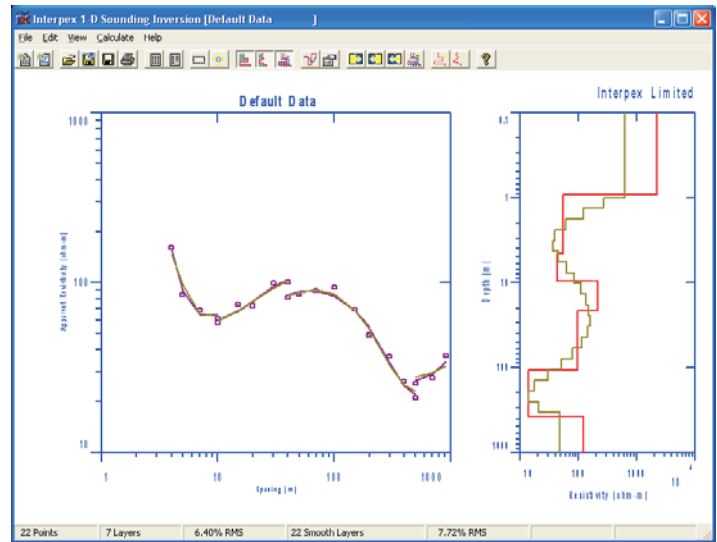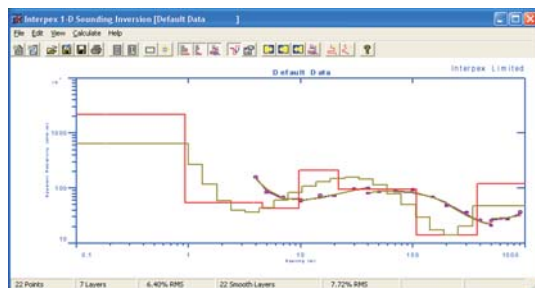
Features Include:

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- ➤ Forward modeling
- ➤ Inverse modeling
- ➤ Equivalence Analysis
- ➤ Parameter Fixing
- ➤ Smooth Model Estimation
- ➤ Occam's or Ridge Regression for smooth model iInversion
- ➤ Layered model estimation for DC/IP
- ➤ Model display on data (DC Resistivity only) or separate display
- ➤ Spreadsheet data editors with Copy & Paste
- ➤ Spreadsheet model editors
- ➤ Optional grid lines on display
- ➤ ASCII File Export of data, synthetics and models

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