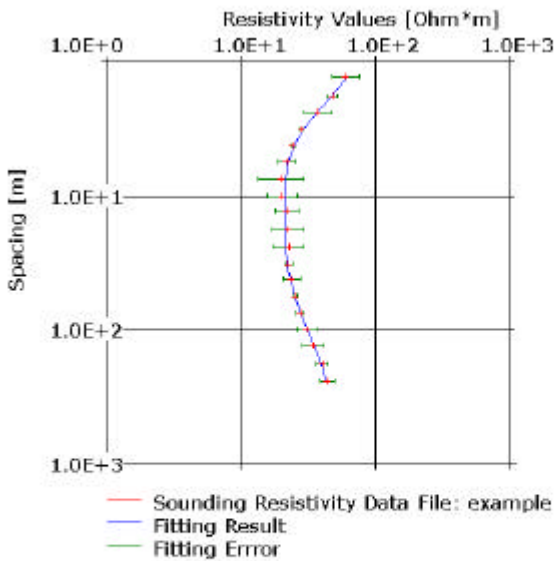


# SensInv1D

## Inversion of Resistivity and IP Sounding Data

SensInv1D enables the processing of vertical electrical resistivity and IP soundings. It is a tool to derive the best fitting layered models from soundings performed in different geometries. The program is based on a mathematical optimization procedure which uses a regularization technique to change a given layered model in such a way that the best fitting between the measured and calculated sounding curves is achieved. During the iteration procedure the root mean square (RMS) error between measured and modeled curve is minimized. The forward problem is solved by a filter technique. This version is designed to process curves measured in Schlumberger, Wenner, Dipole-Dipole or Pole-Pole geometries.

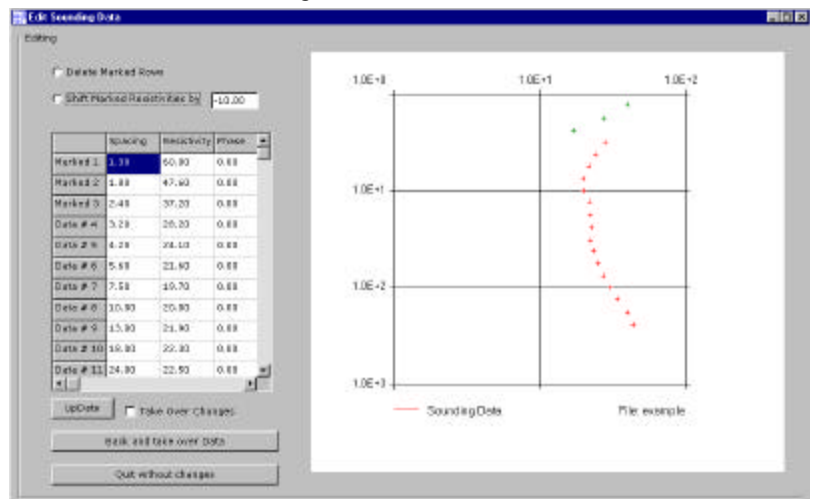
### Measured vs. Fitted Data



### Key features

- Import of other data formats
- Extracting sounding curves from 2D data sets
- Automated Generation of 2D Models
- Interactive Modelling of Layers
- Colored bar display of models
- Display of borehole and logging data
- Correlation matrix of inverted parameters
- Sensitivity display of inverted data

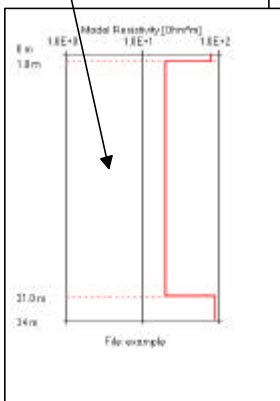
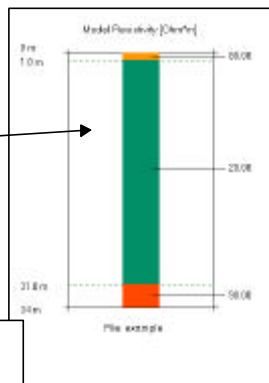
### Interactive Data Editing



### Display Layer Model

as Profil

or Step function



### Result of Automated 1D Inversion of a 2D Data Set

