

<http://www.landviser.com/resdinv.htm>

RES3DINV - What's New

Version 2.00

Upgrade to Windows 3.1 and 95.

Version 2.01

Code optimisations for Windows 95/NT systems. Maximum grid size increased to 43 by 43 (1849) electrodes for systems with 128 MB RAM.

Version 2.03

Support for non-uniform survey grids

Version 2.04

Support for robust inversion.

Version 2.05

Support for equatorial dipole-dipole (rectangular) array. Options to save the model resistivity and I.P. values in the Rockworks and Slicer/Dicer programs added.

Version 2.06

Option to use 4 nodes between adjacent electrodes added. This gives greater accuracy, but at a huge increase in the computer time, for cases with large resistivity contrasts near the surface. The user can now stop the inversion process at the end of the current iteration by pressing the 'N' key. After displaying the model sections, the user can view the results from the later or earlier iterations by pressing the 'PgUp' or 'PgDn' key.

Version 2.07 - Options to carry out the inversion of IP data sequentially and to determine the IP damping factor automatically were added.

Version 2.10 - Incomplete Gauss-Newton inversion option added.

Version 2.11 - Data compression option for the incomplete Gauss-Newton method added.

Maximum number of electrodes increased to 5041, and maximum number of data points to 67500, for systems with 1 GB RAM. The computer must have Win NT/2000/XP and a hard-disk using the NTFS file system format.

Version 2.12 - Option to use 3 nodes between adjacent electrodes added.

Option to save model values in a binary format for the Slicer-Dicer program also added.

Version 2.13 - Support for 3-D underwater surveys added. Optimisation made to inversion code for data from surveys with multi-channel instruments. For such surveys, the inversion subroutine is about 20-50% faster than version 2.11.

Version 2.14 - Support for borehole surveys and trapezoidal survey grids added.