

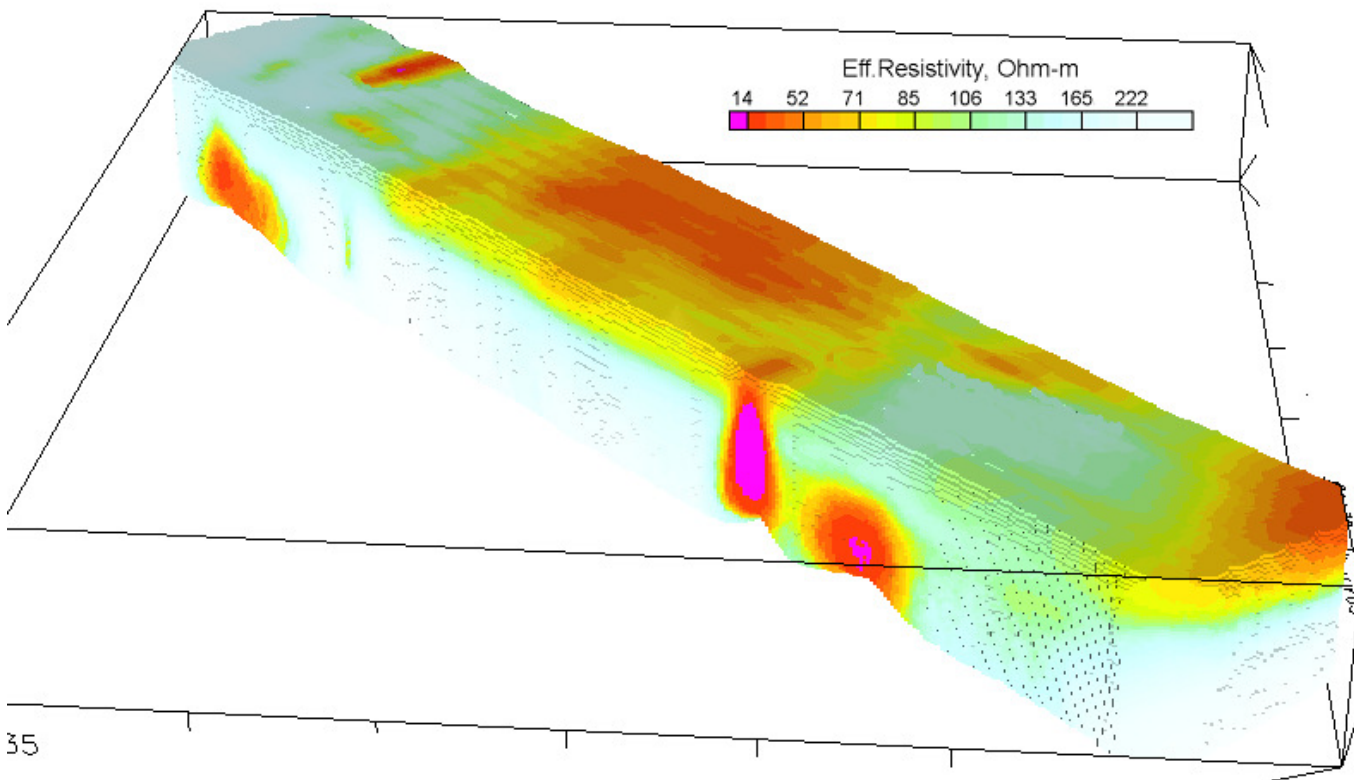


3D Resistivity Depth Imaging of Time-Domain Data – TEM3dRDI.gx (developed by Alexander Prikhodko)

There are many different schemes to get conductivity/resistivity depth sections from time-domain data¹. The GX of Resistivity-Depth transformation is based on scheme of Maxwell A.Meju (1998) and TEM response from conductive half-space adopted for time-domain data and system configuration.

The TEM Resistivity Depth Sections have checked and proven on several real known targets, results of drilling and synthetic models (see TEMRDI_GX.pdf).

TEM3dRDI.gx creates RDI databases which can be used for voxel building for 3d blocks, 3d plan and section slices.



¹ 1. Maxwell A.Meju: A simple method of transient electromagnetic data analysis. Geophysics, Vol.63, NO.2, 1998; p. 405-410.
2. J.Macnae, Y.Lamontagne: Imaging quasi-layered conductive structures by simple processing of Transient electromagnetic data. Geophysics, Vol.52, No. 4, 1987, p. 545-554.
3. Macnae, J.C., Smith, R., Polzer, B.D., Lamontagne, Y., Klinkert, P.S., 1991. Conductivity-depth imaging of airborne electromagnetic step-response data. Geophysics 56, 102–114.
4.H.Huang, J.Rudd: Conductivity-depth imaging of helicopter-borne TEM data based on a pseudolayer Half-space model. Geophysics, Vol.73,NO.3; 2008. p.p. 115-120.
5. Tartaras, E., Zhdanov, M.S., Wada, K., Saito, A., Hara, T., 2000. Fast imaging of TDEM data based on S-inversion. Journal of Applied Geophysics 43, 15–32.



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