



2-D inversion of TDEM data

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Time domain (TDEM) soundings are often used in environmental and hydrological studies. Usually the soundings are interpreted separately assuming 1-D models. This procedure frequently produces misleading interpretations, mainly in complex geologic environments. This communication presents a 2-D program for inversion of TDEM soundings based on the regularized method. The forward problem is solved using the finite differences method. The program was tested with synthetic data and applied to a TDEM survey carried out in Cape Verde (Santiago island), with hydrogeological objectives.