

STATE-OF-THE-ART PROCESSING OF TRANSIENT ELECTROMAGNETIC DATA

ViewTEM is a geophysical processing and inversion software for Transient ElectroMagnetic data measured by the ABEM WalkTEM system. It's performance and ease-of-use makes it the perfect match for the WalkTEM system and the combination will provide high quality data at high rate.

Seamless integration with WalkTEM
- Easy data transfer without manual editing

Database architecture, containing everything from data points to finished layer models

Intuitive user interface
- TEM processing has never been easier!

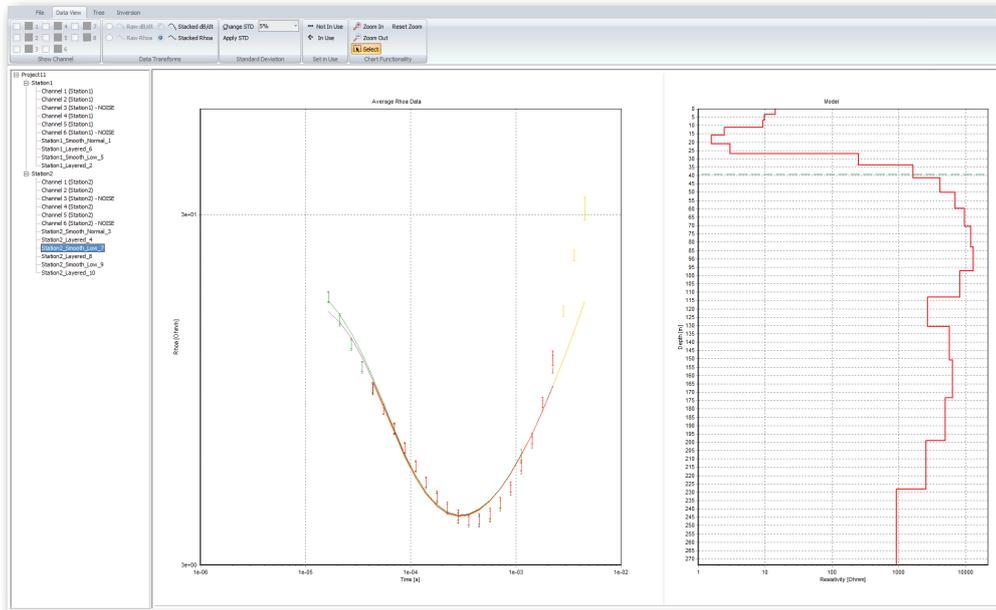
Variety of advanced editing options
- optimise input as well as output data

Fully compatible for further visualization in Aarhus Workbench



With ViewTEM an easy-to-use graphical user interface is obtained for processing and inversion of electromagnetic data. ViewTEM is based on the concept of a project workspace, and each project

has an individual workspace where data, inversions and information about the current project is stored in a database.



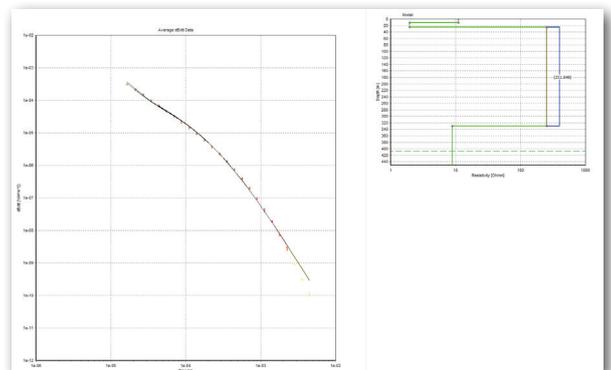
Simple Inversion

In the simple window, the processed data can be inverted with a smooth model (20 layers) with fixed thicknesses and a layered model (6 layers).

Advanced editing

In the advanced window, a starting model can be configured for a smooth or layered inversion. A black curve will represent the forward response based on the starting model. It will update automatically when the starting model is changed, which is a matter of simply dragging in the smooth, or layered starting model.

Also, resistivity, standard deviation and layer thickness can be edited for a starting model.



Depth of investigation (DOI)

The DOI-method used by ViewTEM is based on the actual inverted model, and it includes the full system transfer function and system geometry, using all actually measured data and their uncertainties. The methodology is based on a recalculated sensitivity (Jacobian) matrix of the final model. A priori information, model constraints or other information added to the system are not considered. Thus, the DOI is

purely data driven.

Depth of investigation (DOI) is a useful tool for evaluation of inversion results and holds useful information when a geological interpretation is made.

Printed report

ViewTEM also offers a printed Model Report in pdf format at the click of a button, which allows reports on results to be done with speed.

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