EMIGMA 9.5

for Vista / W7 / W8.1/W10

Land-Based CSEM

Concept

EMIGMA for CSEM is designed to use the accurate 3D nature of the grounded current source with both current and magnetic excitation

Accurate near-field and far-field calculations utilizing the true aspects of the extended current source
Suitable for all land based CSEM.
No limitations to frequency, distance nor azimuth

Allows Multiple Transmitters
Multiple electric and magnetic receivers
Impedances allowed
Multiple frequencies

Data Processing

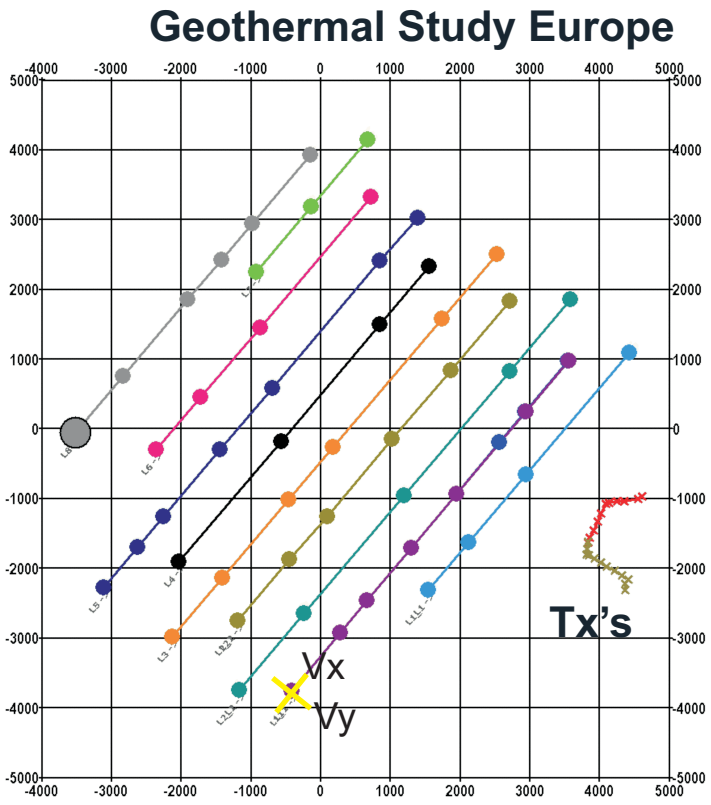
Electric fields and/or magnetic fields
Horizontal and Vertical Components
Multiple Transmitters
with arbitrary length and geometry
Flexible import capabilities
Data correction and editing
Spatial and digital filters

Data Display/Analyses/Mapping

Survey and data imaging
Multi-component and frequency grids
enabling rapid and thorough data analyses
Contouring with map overlays/underlays

Import/Export maps
for many other applications

Extensive Line Plotting capabilities
3D Visualization



Processing, Imaging & Interpretation Suite for Mining, Oil & Gas, Geothermal

Exploration, Environmental, Geotechnical, Delineation, UXO

EMIGMA 9.5

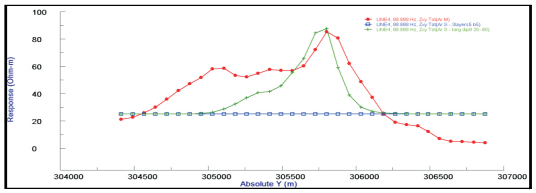
for Vista / W7 / W8.1/W10

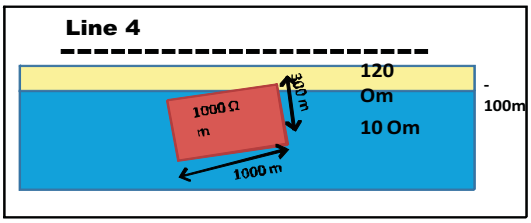
Accurate in the Near, Intermediate and Far Field

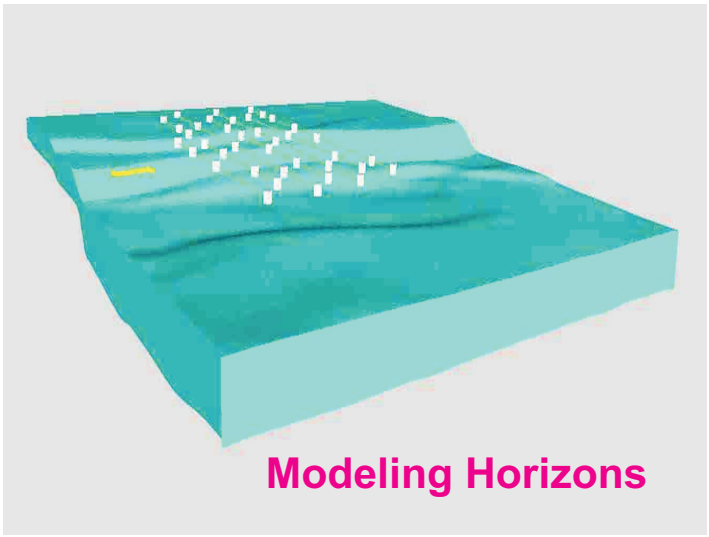
LAND BASED CSEM

Modeling

Fast and accurate 1D and 3D simulations
Quasi-2D via arbitrary strike length
Import and exports for CAD software
Simple integration of models with other types of data







Modeling Horizons

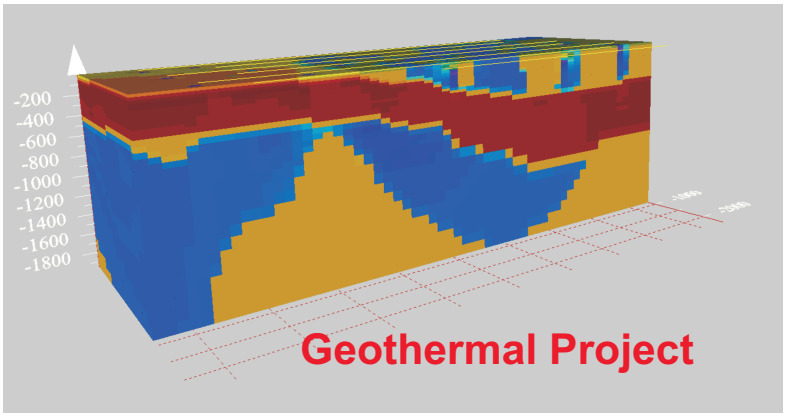
Geothermal Study Central America

Inversion - 1D and 3D

Joint inversion capabilities for multiple transmitters and receivers

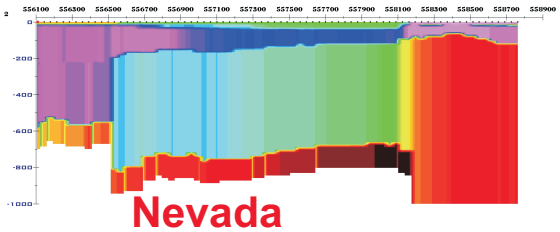
1D Inversions

1D inversions using Occam or underparametrized Trust Region technique
Full constraints allowed on resistivity and thickness



Geothermal Project

Stacked Resistivity-Depth Section (1D inversion)



Nevada

3D Inversions

3D inversion of Electric and/or Magnetic data
Joint inversion of multiple transmitters and receivers
Constrained inversions
Allows constraint of seismic or drill log horizons
3D inversion volume viewing and exporting
Multi-processor and array processor capabilities in standard Windows environment

Processing, Imaging & Interpretation Suite
Oil & Gas, Geothermal, Mining, Groundwater

Exploration, Environmental, Geotechnical, Delineation, UXO