

EMIGMA 10

relational database

Vista / W7 / W8.1/W10/W11

Potential Fields

Ground, Airborne, Borehole, Marine

Data Processing

Processing of raw data for marine, ground, borehole and airborne data including drones, UAV, helicopter stinger and towed instruments
Total field, Vector, Gradient, higher order tensor data
Enhanced gridding with rectangular grid cells
Tie Line Corrections
2D FFT/DFT processing for derivatives, continuation, filtering
1D, 2D spatial and digital filters
Trend removal
Analytic Signal,
Reduction-to-Pole including 3 algorithms for low latitudes
Advanced Aeromagnetic Compensation for TMI and Vector data

Gradients

Gradients from TMI, imported gradients or components
Gradient derivation from multiple sensors, de-rotation
Modeling and Inversion
Enhanced contouring with horizontal gradients

Data Display/Analyses/Mapping

Survey and data imaging and contouring
Map import/export, map underlays
Scaled hardcopy maps
3D Surfaces ~ Contours ~ Line Plots
2D and 3D .pdf exports

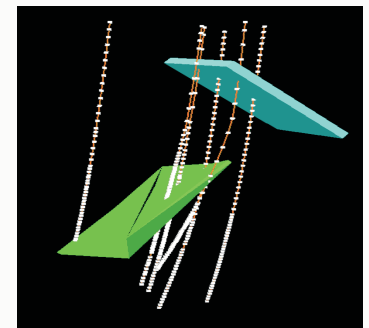
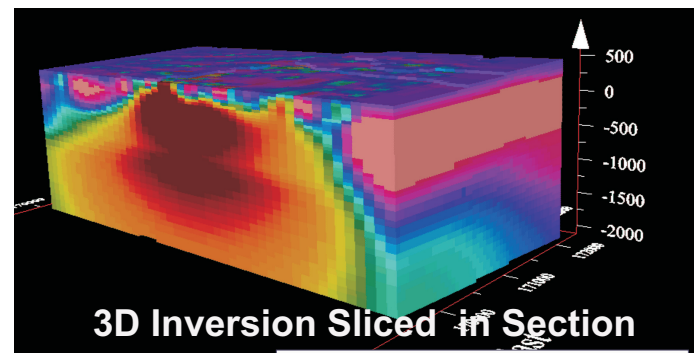
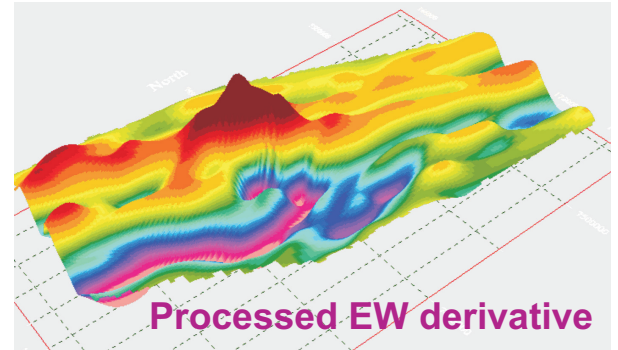
3D Modeling

Fast and accurate 3D simulations
Unlimited prisms and polyhedra targets
Non-linear effects, demagnetization, remanents
Magnetic channelling & magnetic body interactions
Import and exports to CAD software
Simple integration of models with other types of data
The only commercial product offering such accuracy

3D Inversion

Fast Matrix and Large Matrix techniques, Multi-Processing allowing rapid inversion
Use of gradients and/or vector components, Inversions within Topography
3D inversion volume viewing and exporting, Visual grid setups
3D Extended Euler Solutions with Post-Processing, Inversion for Magnetization Vectors

Magnetics



Borehole Magnetics

**Processing, Imaging & Interpretation Suite
for Mining, Oil & Gas, Near Surface**

Exploration, Environmental, UXO, Geotechnical, Delineation

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Data Processing

Basic gravity corrections

includes QCTool with full gravity reductions

with advanced topography corrections, marine and isostatic corrections

2D FFT processing- derivatives, continuation, filters

1D, 2D spatial and digital filters,

Data Display/Analyses/Mapping

Survey and data imaging and contouring in 3D

2D multi-component grids with contouring

and map overlays/underlays with transparencies

Import/Export maps for many applications

Comprehensive Line Plotting capabilities

5 interpolation techniques with user-selectable

aspect ratio for rectangular cells

3D Modeling

Fast and accurate 3D simulations

Unlimited prisms and polyhedral targets

Modeling of variable density topography

3D models with arbitrary strike length

Import and exports to and from CAD software

Simple integration with other types of data

3D Inversion

Fast Matrix and Large Matrix techniques

Standard Iterative Search technique

3D inversion volume viewing and exporting

Use of gradients in inversions

Inversions within Topography

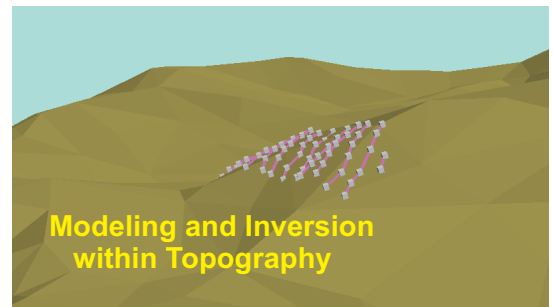
Visual grid setups

Three types of grid depth definitions

Inversion from profile or gridded data

3D Extended Euler Solutions with Post-Processing

Gravity

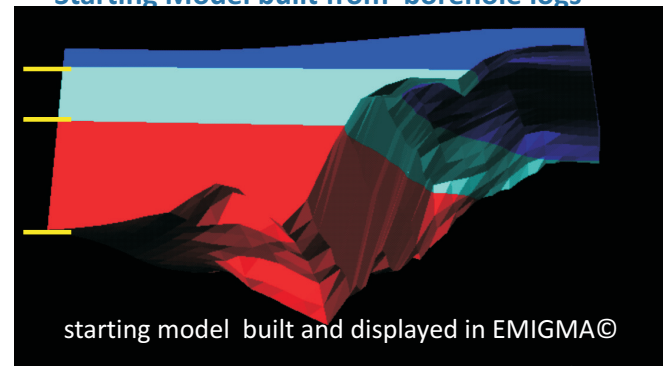


Starting Model built from borehole logs

depth = 200m

depth = 593m

depth = 1365m



NEW !

Fast Compiler 3D Inversion

Processing, Imaging & Interpretation Suite

Exploration, Environmental, Geotechnical, Delineation, UXO