

# EMIGMA 9.5

## TDEM

For Vista/W7 /W8.1 and W10

**EMIGMA for TDEM**  
ground, airborne, borehole, underground

### Time Domain EM

ground, airborne, borehole, marine  
Impulse and Step Response  
Coil and Magnetometer Sensors  
accurate system response

Zonge, TerraTEM, Geonics, TEM-FAST, Phoenix,  
WTEM , DigiAtlantis, SMARTEM, Crone, UTEM  
VTEM, SkyTEM, HeliTEM,  
GEOTEM, MEGATEM, GENESIS

### Data Processing

Data and position correction  
1D digital, spatial and statistical decimation filters  
Impulse to Step & coil to magnetometer processing  
Decay rate processing and imaging  
for grids and individual points  
survey grid transformations  
Complete tools for airborne QC/QA and compilation

### Data Display and Analyses

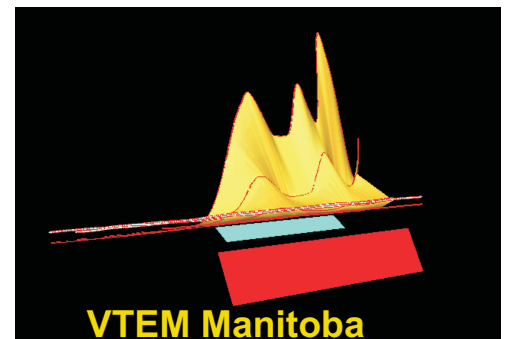
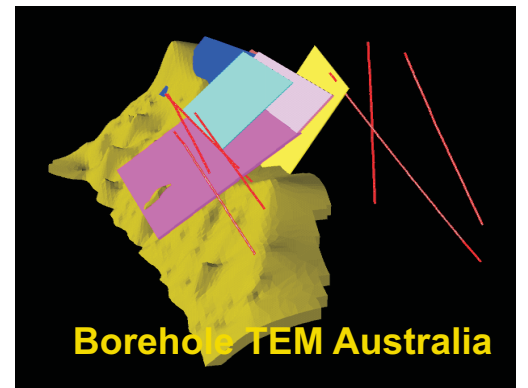
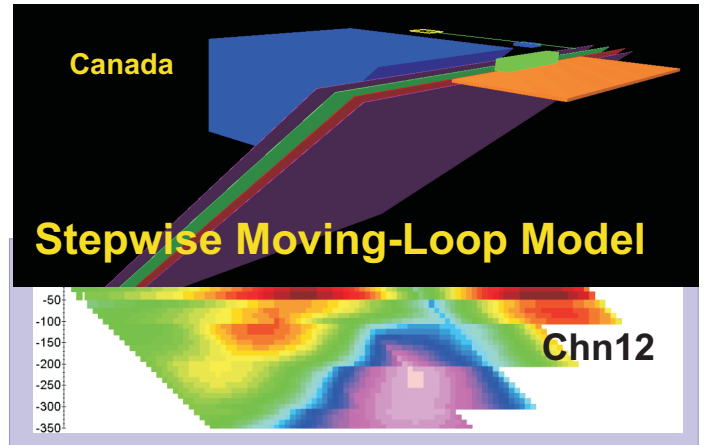
Survey & data imaging,  
contouring with rapid transitions  
3D Surfaces ~ Contours ~ ~ Line Plots  
5 interpolation techniques with accurate inline sampling  
Time Decay maps  
Easy & quick transitions for all display applications  
Pseudo-depth displays and apparent rho calculations

### 3D Modeling

Extremely Fast and Accurate 3D simulations  
Very Accurate/Fast Inductive Plate algorithm  
with conductive background  
3D visualization model definition with data display  
Unlimited prism, plate and polyhedra targets  
Freespace and Conducting Background Models  
Multiple body interactions, Magnetic and IP effects in EM data  
Topography effects and full contrast handling  
Fast, accurate multi-plate inductive responses

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

Exploration, Environmental, UXO, Geotechnical, Delineation



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ground, airborne, borehole, marine, xhole

### 1D Inversions

- Ground, Airborne and Borehole Surveys

Accurate system response for coil or magnetometer receivers

Smooth Occam and discrete Marquardt-style algorithms

Multiple starting models with full constraints including lateral constraints

In-loop, Out-of-Loop, Moving Loop and Fixed Loop Configurations

Vertical and Horizontal fields

Multi-station Inversions,  
Multi-Frequency Inversions,  
Multi-Separation Inversions  
for moving loop  
Multi-Receiver Inversions  
Moving data station window

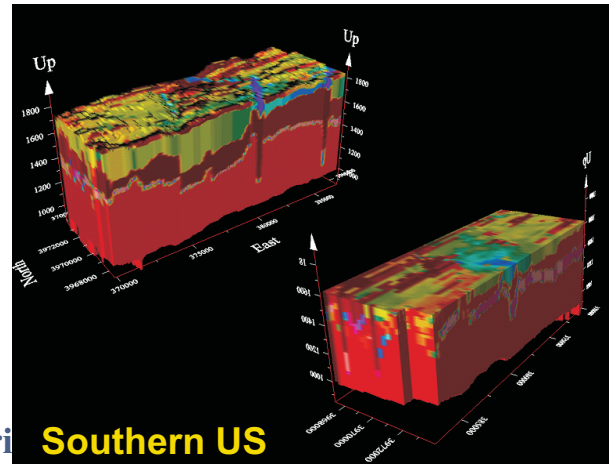
Step and Impulse Response

Automatic intermediate model saving for large data sets

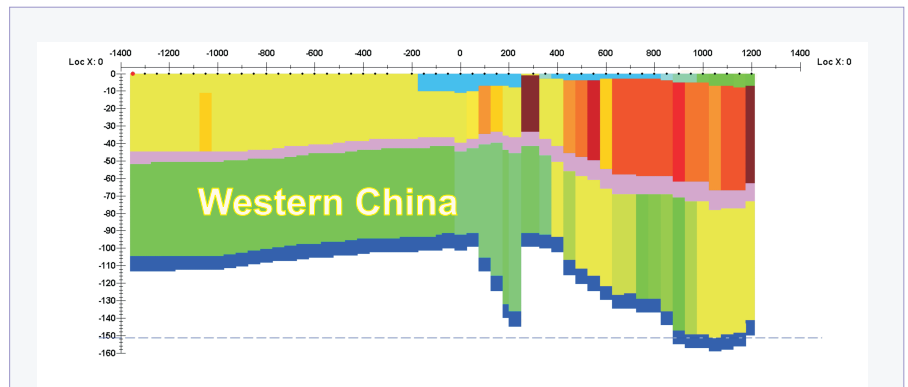
User-controlled stop and start capability

2D section and Depth slice visualization and exports

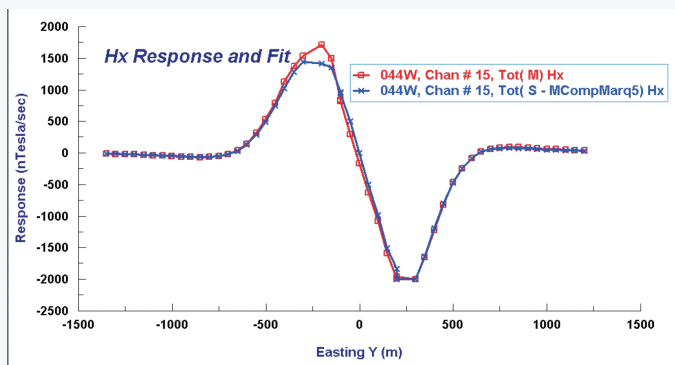
3D volume displays with section and depth cutting



### Airborne TEM Inversion



### Ground Fixed Loop Multi-Component Inversion



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