



Mira Geoscience
...modelling the earth

Airborne EM Interpretation Consulting Services

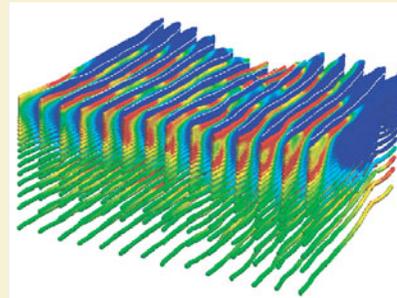
A comprehensive geophysical interpretation team

Summary

We offer a comprehensive airborne electromagnetic processing, modelling, and interpretation services that can help you maximize the benefit of your exploration, mining, or environmental AEM surveys to produce high quality targets.

We process, model, and interpret AEM data using advanced inversion software and codes including those from UBC-GIF and VP Suite, 3D-GIS querying, visualization, and interpretation of AEM targets are performed within the full geological context. Our experienced team has worked with AEM data in a wide variety of geologic environments exploring in different mineral deposits and environment settings.

Inverted 1D sections (VTEM)



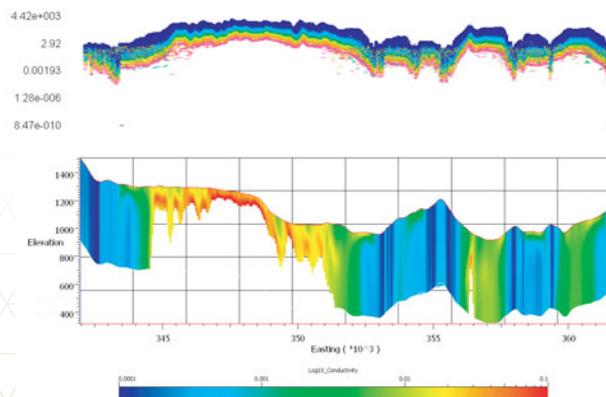
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We interpret AEM data in full 3D geological context, rank and interpret anomalies, and identify new targets in old or new data

Our team of experienced consultants provides expertise in the following areas:

- » All AEM systems, time-domain and frequency-domain, active and passive systems
- » Feasibility studies and sensitivity analysis
- » Survey design and quality control
- » Anomaly picking
- » Attribute mapping
- » Plate modelling and 3D display
- » Conductivity depth imaging
- » 1 D and 3D inversions
- » Laterally constrained inversions
- » Geologically constrained inversions
- » Depth of investigation
- » Joint modelling of ground and airborne data
- » Topographically conformable 3D interpolation
- » 3D integrated interpretation
- » Targeting
- » Custom workflow development
- » Magnetic susceptibility and remanent analysis from frequency-domain AEM data

Laterally constrained inversions with depth of investigation: more robust results



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Key Services

Modelling and Inversion Software

- » Conductivity depth imaging/transform: EmaxAIR
- » 1D time-domain inversion: EM1DTM, AMITY & VPem1D
- » 1D frequency-domain inversion: EM1DFM
- » Plate interpretations: Maxwell, LeroiAIR
- » 3D TEM modelling and inversion: EH3D

AEM Systems

- » AeroTEM
- » Dighem
- » Geotem
- » Hoistem
- » Hummingbird
- » Questem
- » RepTem

Passive AEM

- » 3D forward modelling
- » 3D inversion modelling
- » Multi-frequency
- » Constrained inversion
- » Co-operative inversion
- » Joint ground-airborne inversion (ZTEM and MT)

3D-GIS Analysis Services

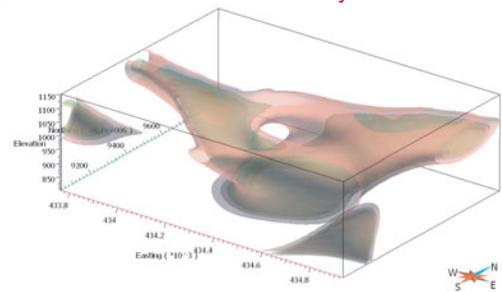
We have a team of expert in processing, analysing, modelling and interpreting AEM data. A key component of our services is the visualization and quantitative integration of geophysics, geochemistry, and geology. All pertinent exploration information is quantitatively represented in a consistent 3D framework. We work with you in applying true 3D-GIS functionality to generate targets based on your exploration criteria.

We provide AEM results in common 3D formats and a Geoscience ANALYST workspace for easy communication of results and ideas, and will host meetings for project review, interpretation, or investment purposes.

Constrained Inversions

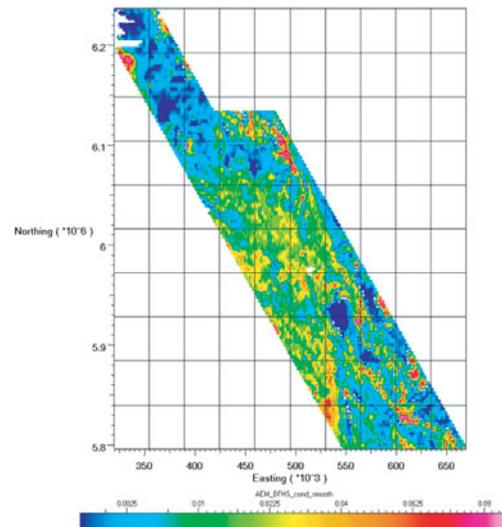
- » Laterally constrained 1D inversions using information from changing geo-electric background
- » Geologically constrained 1D inversions using information from referenced geologic models and physical property measurements
- » Geologically constrained 3D inversions
- » Establishment of physical property and structural relationships
- » Using AEM models to constrain potential field and DC resistivity inversions

3D ZTEM inversion conductivity iso-surfaces



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Background/late-time conductivity



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