EM Interpretation and Analyses Software
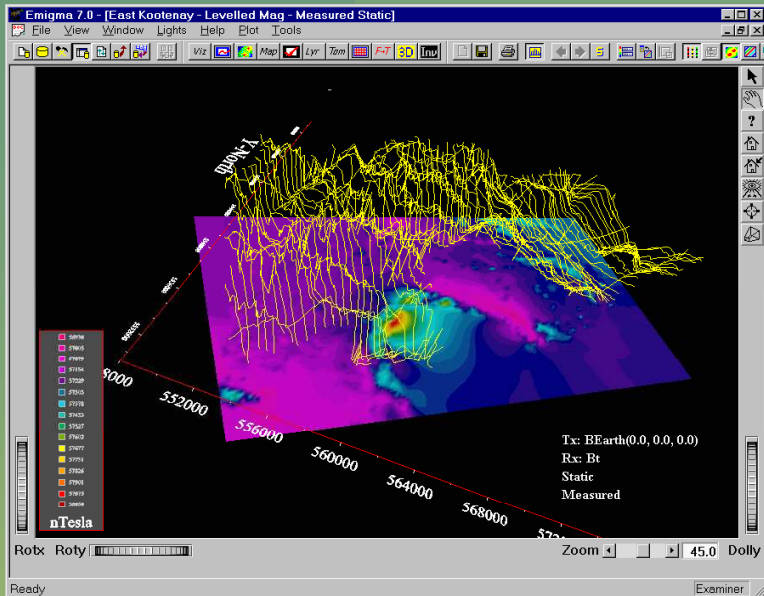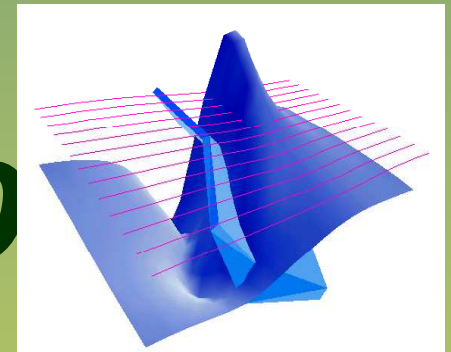
EMIGMA v7.0

The PetRos EiKon News

February, 2001

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Focus on Version 7.0   database driven EMIGMA

EMIGMA Version 7 Release

"Emigma V7.0 Ready for RELEASE , January 2001."

We are pleased to announce the release of EMIGMA V7.0 . We have been working on a database version of EMIGMA for more than two years now and we feel you will find this version of EMIGMA extremely flexible and useful. Because of its design, this version is extremely easy to augment and maintain and we have a great many plans for its quick extension.

– **Why a Database Version?**

- Enhanced data handling and retrieval
- Superior organization capabilities for data and interpretation purposes
- Advanced modelling
- Infrastructure for inversion and imaging tools
- Data manipulation and editing
- Easy upgrading between V6.4 and V7
- Easy imports and exports
- Reduced virtual memory requirements
- Reduced file space

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Introducing EMIGMA V7.0 Database

For Windows 95/98/NT/2000/Me

Sophisticated Software for the Practising Geoscientist

3D Interpretation Platform for

Electromagnetics, Magnetics, MT and IP/Resistivity

Fast and Accurate 3D Simulations over a wide range of geological scenarios. State of the art 3D Visualzation, 2D Gridding and Interpolation tools. Felixible and intuitive user interface. V6.4 compatible
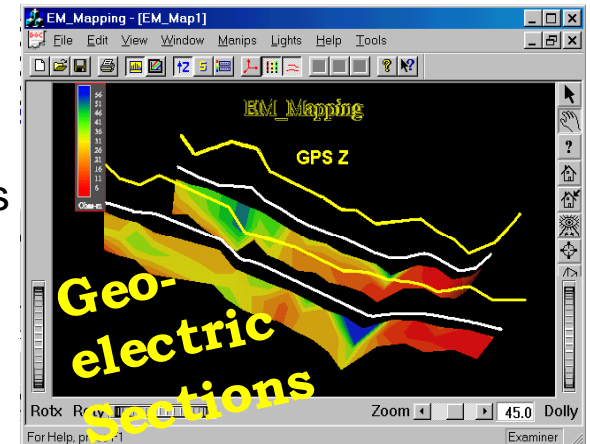
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Features - *Integration of V6.4 features into a single tool*

EM_Mapping - [EM_Map1]
File Edit View Window Manips Lights Help Tools
EM_Mapping
GPS Z
Geo-electric Sections
Rotx Ro...   Zoom   45.0 Dolly
For Help, pr...r1   Examiner

- **Project Management**
  - ☐ Large data handling for airborne data
  - ☐ Easy retrieval of data, models and images
  - ☐ Enhanced storage and retrieval speeds
  - ☐ Reduced virtual memory requirements
  - ☐ Reduced use of digital file space

- **Superior Data and Interpretation Organization**
  - ☐ Databasing of geophysical data and interpretation projects
  - ☐ Organization of multiple data sets into a single project
  - ☐ Attachment of multiple models to a single data set
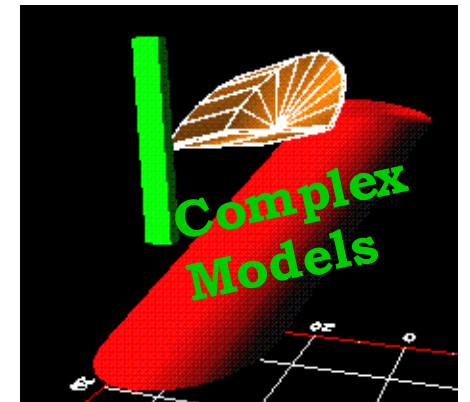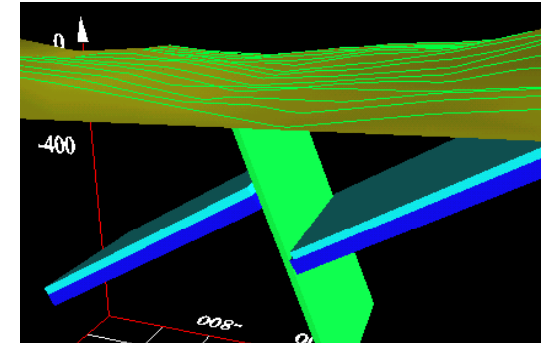 - ☐ Attachment of data to models and inversion grids

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- ♦ **Large Model Capabilities**
  - ☐ Increased Model Complexity
  - ☐ Model large airborne data sets
  - ☐ Model stripping

- ▪ **Advanced Modelling**
  - ☐ Automatic Model Suite Generation
  - ☐ Stepping between Models in Data Displays
  - ☐ Source field generation and display
  - ☐ Host and freespace responses over the target region
  - ☐ Virtually unlimited vector excitation responses.
  - ☐ A new "Super"-Simulation Engine

Complex Models

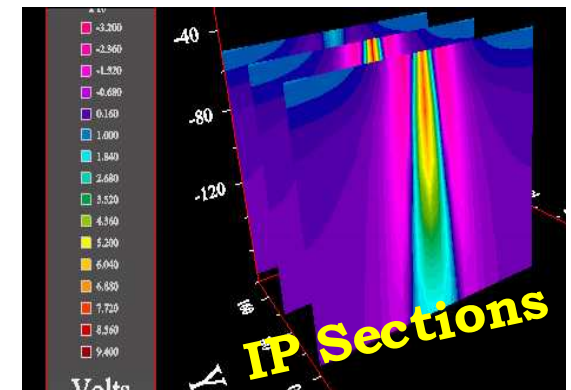*EiKon Technologies Ltd.*
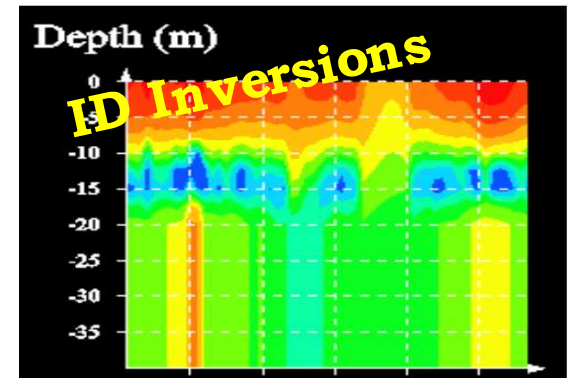
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Features

♦ **Infrastructure for Inversion and Imaging Tools**
- ☐ magnetic inversion
- ☐ airborne EM image processing tool
- ☐ cross-hole tomography and ray-tracing
- ☐ storage of inversion and image processing grids
- ☐ Bostick Depth Imaging for MT and CSAMT

▪ **Data Manipulation and Editing**
- ☐ Geotem and Questem data imports
- ☐ airborne magnetics import
- ☐ easy helicopter EM import
- ☐ Geosoft IP imports
- ☐ Data correction and processing
- ☐ Storage and calculation of data statistics

▪ **Fluidity between V6.4 and V7 and Exports to XYZ**
- ☐ direct import and export of your V6.4 files
- ☐ export of xyz files
- ☐ export to other databases

1D Inversions

IP Sections

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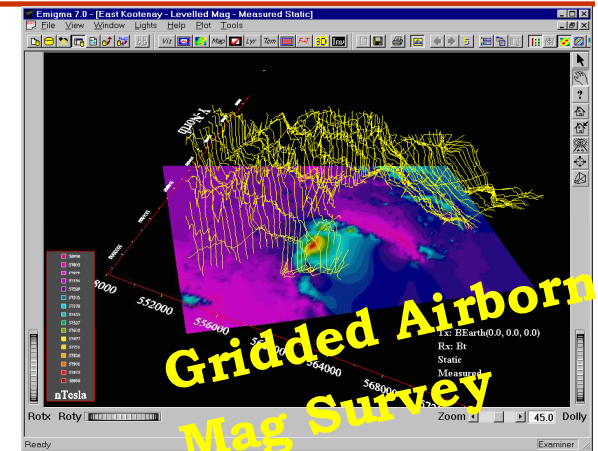
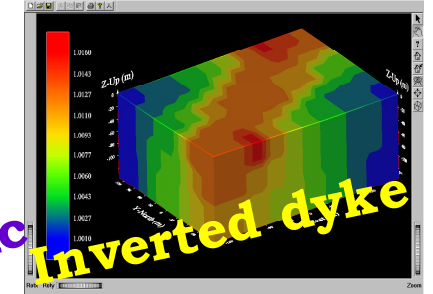# Focus on Version 7.0　　database driven EMIGMA

Features

- ♦ **3D Magnetics Inversion**
  - ☐ 3D Meshviewer for viewing and slicing through inversion results
  - ☐ Flexible starting models including EMIGMA forward models.

- ▪ **Inversion and Imaging**
  - ☐ Storage of inversion and image processing grids
  - ☐ Airborne EM Image Processing Tool
  - ☐ Corss-hole tomography and ray tracing
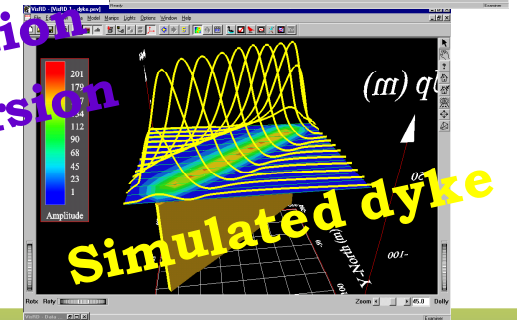 - ☐ Botick Depth Inversion & Imaging for MT and CSAMT

- ▪ **Geo-electric Sections**
  - ☐ Apparent resistivity processing
  - ☐ Resistivity-depth transfomations
  - ☐ 1D inversions for FEM, MT and CSAMT
  - ☐ TEM inversions coming soon….

Gridded Airborn Mag Survey

Inverted dyke

3D Magnetic Simulation & Inversion

Simulated dyke

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Features in Release Version

- *Model Suite Generation*
  - *Stepping Between Models in Data Displays*
    - *Airborne TEM Imaging*
      - *1D MT Inversions*
- *EM Mapping for Surface dipole-dipole Data*

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