

# Exploration Software

*The PetRos EiKon News*  
July, 2000



## *EMIGMA Version 7 Release*

*“Emigma V7.0 Ready for Beta testing by sponsors May, 2000.”*

We are pleased to announce the release of V7.0 in Beta. We have been working on a database version of EMIGMA for more than two years now and thanks in no small part to an extremely talented developer (Ms Elena Vassilenko, joined *PetRos EiKon* in March of 1999) 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
- Fluidity between V6.3 and V7
- Easy imports and exports
- Reduced virtual memory requirements
- Reduced file space

## Features in Beta

### - Integration of V6.3 features into a single tool

- **Enhanced Data Handling and Retrieval**
  - large data handling for airborne data
  - rapid storage and retrieval of data and models from flat files
  
- **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
  
- **Advanced Modelling**
  - Suites of models
  - Source field generation and display – host and freespace responses over the target region
  - Dramatically extended limits on the number of RX's and TX's allowed
  - A new “Super”-Simulation Engine

Features in Beta

- ◆ **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
  
- **Inclusion of Data Manipulation and Editing**
  - Geotem and Questem data imports
  - airborne magnetics import
  - easy helicopter EM import
  - Geosoft IP imports
  - data processing and correction features
  
- **Fluidity between V6.3 and V7 and Exports to XYZ**
  - direct import and export of your V6.3 files
  - export of xyz files

Features in Release Version

Release September, 2000

- Model Suite Generation
  - Stepping Between Models in Data Displays
    - Airborne TEM Imaging
    - 1D MT Inversions
- EM Mapping for Surface dipole-dipole Data and IP
  - 3D Resistivity Inversions
  - EM effects removal from IP ( anticipated )

## **Visit Us On Line**

[www.PetRosEiKon.com](http://www.PetRosEiKon.com)

*See You on the Circuit ...*

*...Visit our Booth*

**SEG**

**Calgary August 6-9, 2000**

**Booth #**

We welcome the opportunity to arrange for demonstrations or training during either conference. Please call to schedule a time.