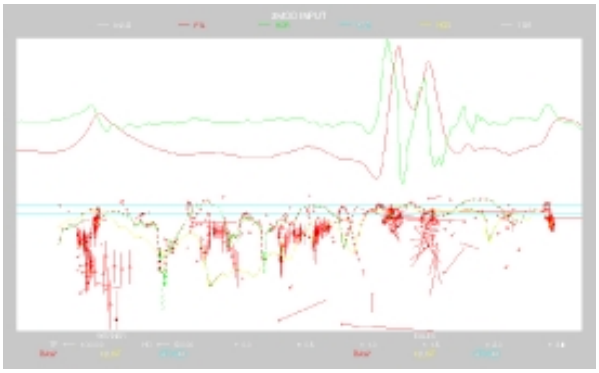
FUGRO-LCT

Magnetic Depth Analysis

MAGPROBE™

MAGPROBE™ is a powerful interactive tool for determining the position and orientation of magnetic sources using the application and comparison of multiple depth estimation methods. With the aid of graphic displays, the interplay among the various depth estimation methods can be rapidly observed and interpreted. MAGPROBE incorporates several popular algorithms, including Werner, Euler, Phillips, and spectral methods as well as empirical methods such as the straight-slope and half-slope methods.

MAGPROBE gives you extensive control over all aspects of magnetic body depth estimation, from input magnetic field filtering to structural body style selection. Depth solutions of interest display on a common graphic window. With MAGPROBE's rapid computation technology, you can alter the interpretation parameters several times.



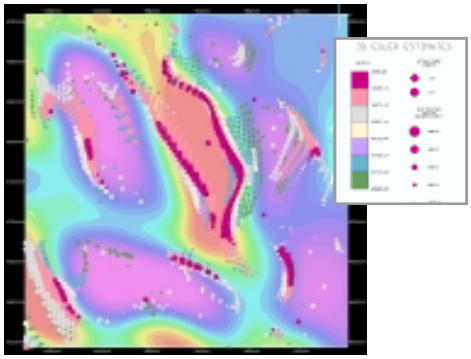
Features include:

- Display of raw and filtered magnetic field data, derivatives, and gradients
- Fast computation of Euler, Werner, Phillips, straight slope, half-slope, and spectral depth estimations
- Selection of magnetic body style and input field type for calculation
- User-defined parameters for selective display of the desired solutions and profiled data
- Batch mode processing of lines available
- CGM hardcopy output of displays and depth estimates
- Integration with other FUGRO-LCT applications for more complete interpretations
- Online help

Pricing and demonstrations are available upon request.

3DEULER™

3DEULER™ is an interactive, three-dimensional gravity and magnetic field program developed by Fugro-LCT's team of geophysicists and computer scientists for the deconvolution of gridded magnetic data for the automatic depth to magnetic source. The resulting information is output as a 3DEULER map.



To create a 3DEULER map, you first define a small window that you can move across your grid while calculating the "best fit" depth for a model's geometric profile. 3DEULER uses the total field magnetic data, the X and Y horizontal derivative, and the vertical derivative.

To specify the geometric model profile, you first set the structural index, which is the measure of the rate of fall-off of the model's magnetic field in relation to its distance from the model.

3DEULER provides a quick and easy way to obtain general estimates of the distribution of magnetic sources in a specified area. It is especially useful when working with large data sets. After generating 3DEULER solutions, you can import them into a 3-D software application, such as LCTSEIS-3D™ to further qualify depth estimates.

Features include:

- Landmark OpenWorks™ , SeisWorks™, and Zycor™ integration
- GeoQuest IESX, CPS3, and Geoshare integration
- Easy import of a variety of grid formats, such as GXF, ERMapper™ and USGS grids
- User-defined grid extension capabilities
- Multiple import/export grid file type options
- HTML documentation viewable through web browser

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