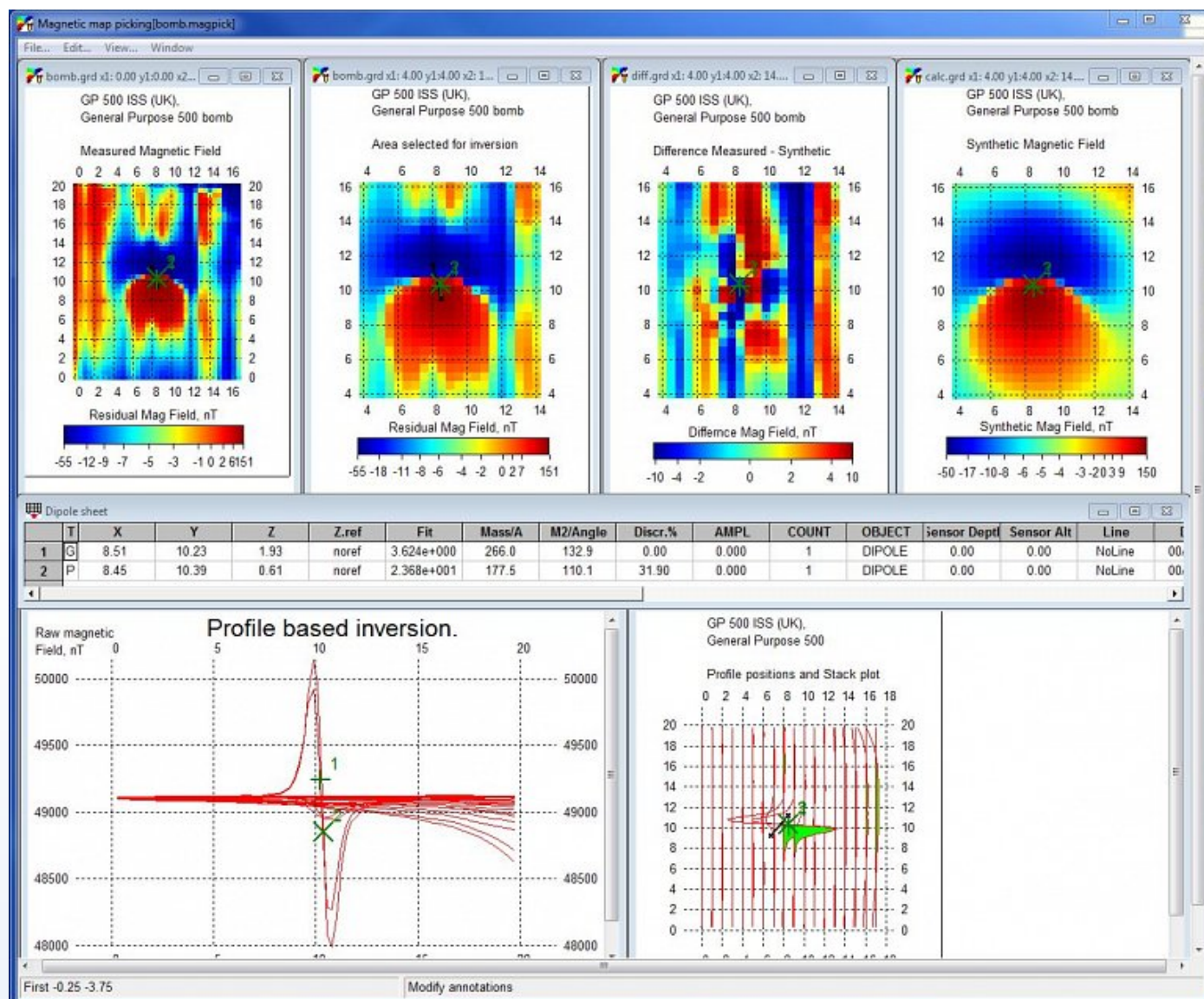


MagPick Data Sheet

This free powerful data processing and modelling package provides data base management, file importation, gridding, contouring and dipole pattern matching source body modelling for the experienced geophysicist or potential field data processor. Output includes a table of target anomaly locations and depths. Includes pre- processing of GPS locations and data reformatting.



Dipole inversion of UXO target within MagPick. Courtesy of Geometrics Inc.

The software package is supplied free with any Geometrics magnetometer or OhmMapper system, and can be [downloaded](#) from the manufacturers website.

MagPick provides visual analysis of the magnetic map and manual or automatic selection of anomalies. Includes: Viewing the magnetic map with dynamic adjustment of colour scale in accordance with min/max of the data. Program allows enlarging or zooming into different parts of the map and presenting zoomed sections in separate windows with automatic change of the colour scale to fit the data range.

IGRF (Earth's magnetic field) model till 2005 plus UTM transformation is included.

MagPick interpolates the map grid based on profile data using splines in a tension algorithm or by triangulation. The map can be viewed in different modes including colours, contours, shaded or illuminated relief. MagPick allows the user to increase resolution of existing maps with a bi-linear or spline interpolation and also provides a utility to smooth the grid using a relaxation algorithm.

For residual (total field minus local IGRF field) magnetic maps, MagPick provides tools for pward/downward continuation, reduction to the pole and synthetic gradient calculation.

Additional information such as lines, polygons and annotated points can be drawn and then loaded as an overlay on top of the magnetic map.

Visual analysis of the profile data includes loading of initial (profile) measurements and plotting their geometrical positions on the top of the map. The observed magnetic field can be viewed as a set of linear graphs such as $T(x)$, $T(y)$, $T(l)$ and $T(p)$ where T is the field, x,y are planar coordinates of observed points, l is the distance along the profile, p is the projection of the profile on a line selected by user. Markings on the profile automatically appear on the map view and vice versa.

Features

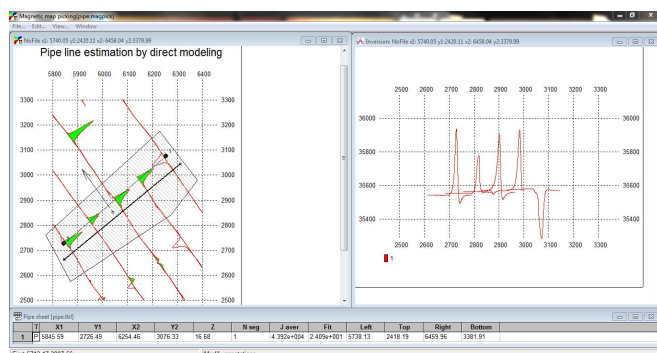
- Smoothing of spline and regional field removal.
- Erasing parts of the profile.
- Exporting profile data in user-drawn a polygon, thus creating a set of profiles.
- Scaling of the profile data.
- Plotting of annotated stacked profiles.
- Shifting profile positions.
- Layback calculation (as in MagMap2000)

Technical Specifications

Operating System (OS): Windows XP to Windows 10

Updates: Automatic notifications.

Gallery



Profile analysis of pipe line within MapPick. Courtesy of Geometrics Inc.

Videos

MagPick Magnetics Processing Software - part 1
<https://www.youtube.com/watch?v=bGu5mqS5aeQ>

MagPick Magnetics Processing Software - part 2
<https://www.youtube.com/watch?v=EzyinGmyJOs>

MagPick Magnetics Processing Software - part 3
<https://www.youtube.com/watch?v=HKfhr6ZGao>

MagPick Magnetics Processing Software - part 4
<https://www.youtube.com/watch?v=iDcL51BoGzI>

MagPick Video Series: Preparation for Online TVG Data Processing
<https://www.youtube.com/watch?v=ow0S5sAX4p0>