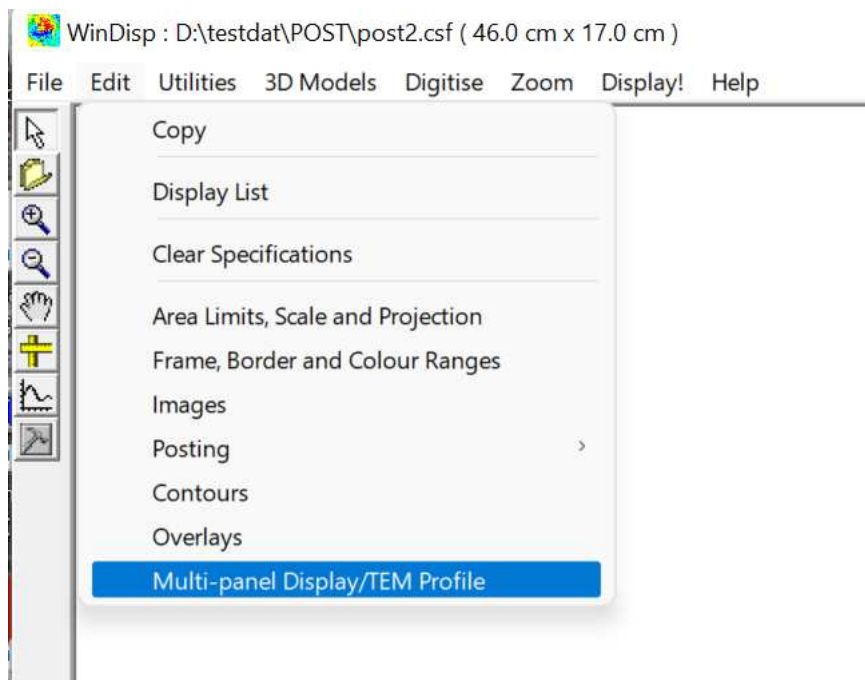
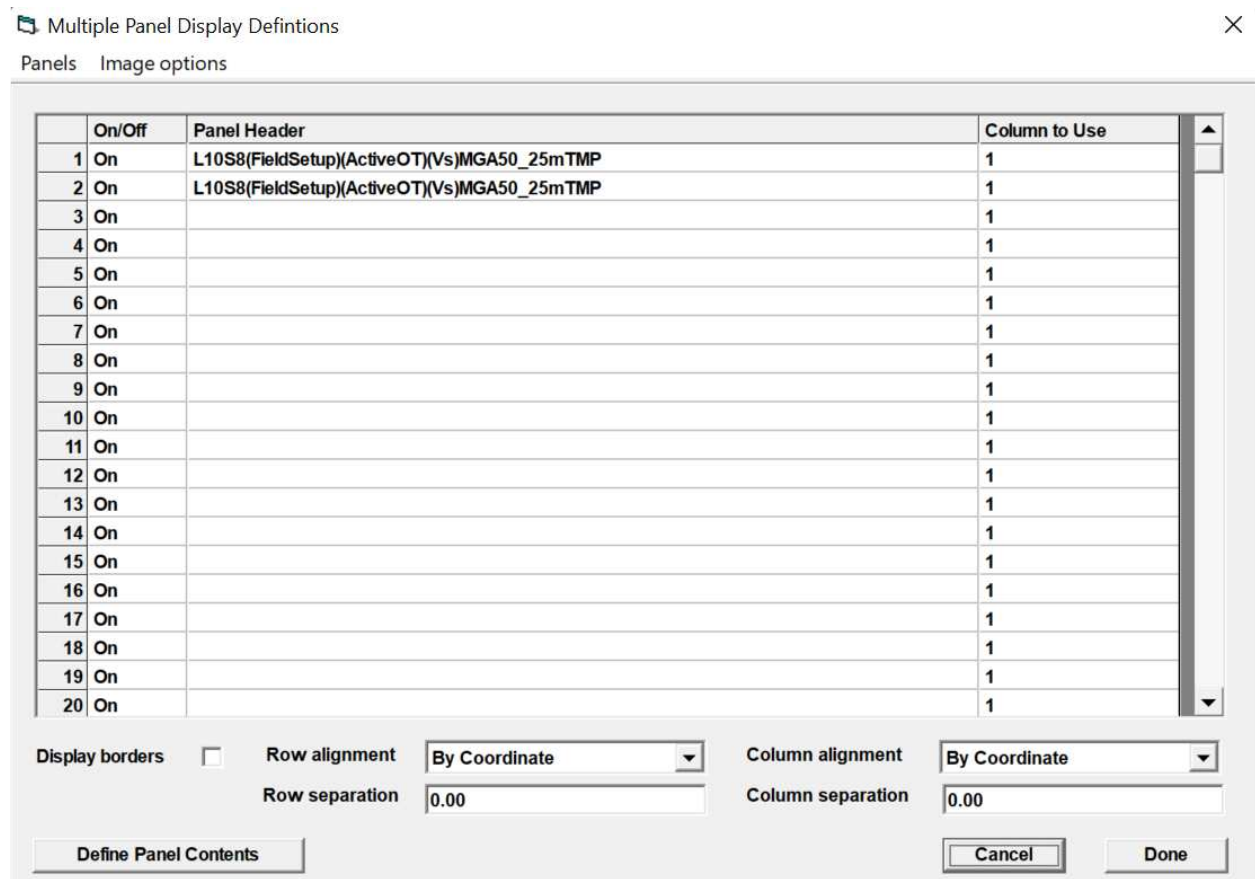


1. Multi-panel display



The Multi-panel display/TEM Profile option allows you construct a layout which consists of a grid of panels which may contain TEM data, simple profile data, Posted data, images, contours/MapInfo/Shape and vector plot files



Panel Definitions

Area Limits

Multiple Panel Display Definitions

File

Minimum X

749305

Minimum Y

422.8

Empty panel

☐

Maximum X

749485

Maximum Y

465

Copy All

Define Oblique Baseline Definitions

Copy All

Clear All Depth

X Axis caption

Y Axis caption

X Axis label interval

0

Y Axis label interval

0

X label frequency

1

Y label frequency

1

X Text size (cm)

.25

Y Text size (cm)

.25

X Label offset (cm)

.2

Y Label offset (cm)

0

X Graticule Size (cm)

.2

Y Graticule Size (cm)

.2

X Tick Size (cm)

.2

Y Tick Size (cm)

.2

X Axis label suffix

Y Axis label suffix

Display Colour Bar

☒

☒ Vertical ☐ Horizontal

Transform log values

☐

Colour bar length (cm)

8

Colour Bar Caption

Copy All

Area Limits

Profile Data

Posted Data

Image and Topo

Contour, Shape, MI

Meta, DXF, PLT

1

1

L10S8(FieldSetup)(ActiveOT)(Vs)MGA50_25mTMP

Cancel

OK

Profile Data

Multiple Panel Display Definitions

File EM Processing

Profile File Name

...

Clear Current File Format

Read Profile file

Determine File Format

Define Channel Display

Copy All

Display Channel Legend

☐

Rotate Plot

☐

Define Profile Coordinates

Plot Channel Names

☐

Plot Zero line

☐

Start Channel

0

End Channel

0

Component to Plot

Station spacing

0

Plot Style

Log

Axis Height (cm)

0

Cm per decade

Linear cut-off

1

Highlight with thick lines

☒

Highlight Interval

0

Highlight Colour

Copy All

Area Limits

Profile Data

Posted Data

Image and Topo

Contour, Shape, MI

Meta, DXF, PLT

1

1

L10S8(FieldSetup)(ActiveOT)(Vs)MGA50_25mTMP

Cancel

OK

Posted Data

Multiple Panel Display Definitions

File

☒ Data File

Read Posting Format From Existing Layout

Select Posting File Define Posting File Data Names

Define Macro Names Define Posting Format

Clear Posting File Definitions

Area Limits Profile Data **Posted Data** Image and Topo Contour, Shape, MI Meta, DXF, PLT

1 1 L10S8(FieldSetup)(ActiveOT)(Vs)MGA50_25mTMP Cancel OK

Image and Topo Data

Multiple Panel Display Definitions

File

☒ Image File L10S8(FieldSetup)(ActiveOT)(Vs)MGA50_25mTMP2.grd ...

File Format Geosoft Binary Image Style Colour

Histogram ...

Colour Table Clear

Vertical exaggeration 1

Sun inclination 45 Sun azimuth 90 Sun contrast 1

Colour style Histogram Invert Colours ☐ Drape image under Topo ☐

Edit Image Set Limits from Image File

☒ Topo File Hamilton SurvMASWL10.csv ...

Display as points ☒ Marker Number 4 Marker Size (cm) 0.20

DTM Line Colour Line Weight 1 RadAlt Line Colour Line Weight 1

Copy All Set Topo File Format Set Limits from Topo File

Export Draped Image

Area Limits Profile Data **Posted Data** **Image and Topo** Contour, Shape, MI Meta, DXF, PLT

1 1 L10S8(FieldSetup)(ActiveOT)(Vs)MGA50_25mTMP Cancel OK

Contour, Shape, MapInfo Data

Multiple Panel Display Definitions

File

☒ Contour File

Contour List File

☒ Shape/Mapinfo File

Line Colour

Line Weight

Marker Index

Marker Size (cm)

☐ Do not fill polygons

Area Limits Profile Data Posted Data Image and Topo **Contour, Shape, MI** Meta, DXF, PLT

1 1 L10S8(FieldSetup)(ActiveOT)(Vs)MGA50_25mTMP

Vector Plot File Data

Multiple Panel Display Definitions

File

☒ Meta File

☒ PLT File

☒ DXF File

☐ Ignore Layer Defs

Line Colour Line Weight

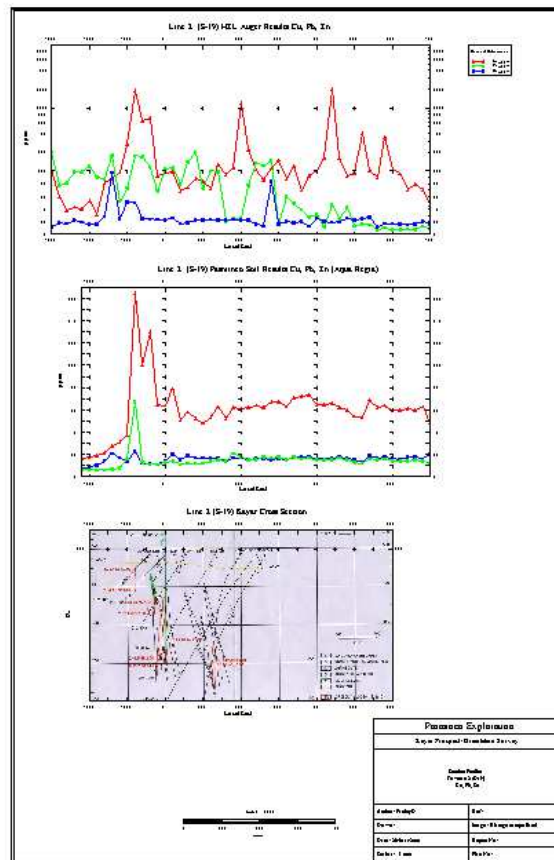
Marker Index Size (cm)

☒ Raster File

Area Limits Profile Data Posted Data Image and Topo **Contour, Shape, MI** **Meta, DXF, PLT**

1 1 L10S8(FieldSetup)(ActiveOT)(Vs)MGA50_25mTMP

Sample Display:



TEM Formats Supported:

AMIRA
SIROTEM

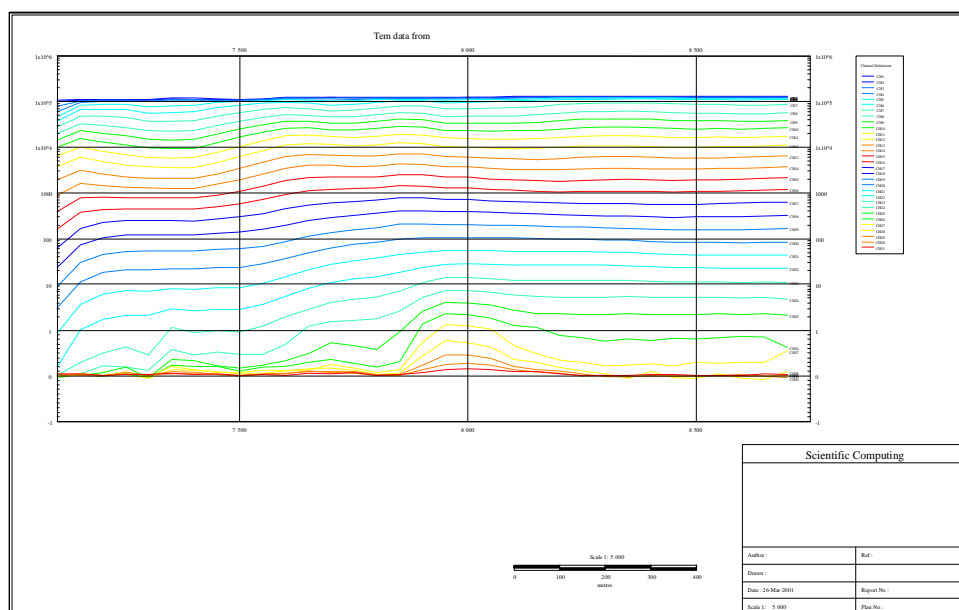


Image processing and export options

Multiple Panel Display Definitions

Panels Image options

Export images to MapInfo/GeoTiff raster

Export Images to GeoTiff float32

Export images to KML

Perform transform for all images

Perform Operation for all images

	Column to Use
1	1
2	1
3	1
4	1
5 On	1
6 On	1
7 On	1
8 On	1
9 On	1
10 On	1
11 On	1
12 On	1
13 On	1
14 On	1
15 On	1
16 On	1
17 On	1
18 On	1
19 On	1
20 On	1

Display borders ☐ Row alignment By Coordinate Column alignment By Coordinate

Row separation 0.00 Column separation 0.00

Define Panel Contents Cancel Done

EM Profile processing options

Multiple Panel Display Definitions

File EM Processing

Calculate Apparent Conductivity

Create Gendl inversion files

Create Airbeo/EMLayer inversion files

Clear Current File Format Read Profile file

Determine File Format Define Channel Display Copy All

Display Channel Legend ☐ Rotate Plot ☐ Define Profile Coordinates

Plot Channel Names ☐ Plot Zero line ☐

Start Channel 0 End Channel 0 Component to Plot Station spacing 0

Plot Style Log Axis Height (cm) 0 Cm per decade Linear cut-off 1

Highlight with thick lines ☒ Highlight Interval 0 Highlight Colour Copy All

Area Limits Profile Data Posted Data Image and Topo Contour, Shape, MI Meta, DXF, PLT

1 1 L10S8(FieldSetup)(ActiveOT)(Vs)MGA50_25mTMP Cancel OK

Profile Formats Supported:

Arbitrary ASCII column/delimited data files
Geosoft line format

Profile Display Modes:

Linear
Logarithmic
Signed logarithmic

Image File Formats Supported:

All formats supported in general WinDisp image display

Image Display Modes:

Grayscale, Colour, Banded Colour, Real-time sun illumination, Colour sun illumination

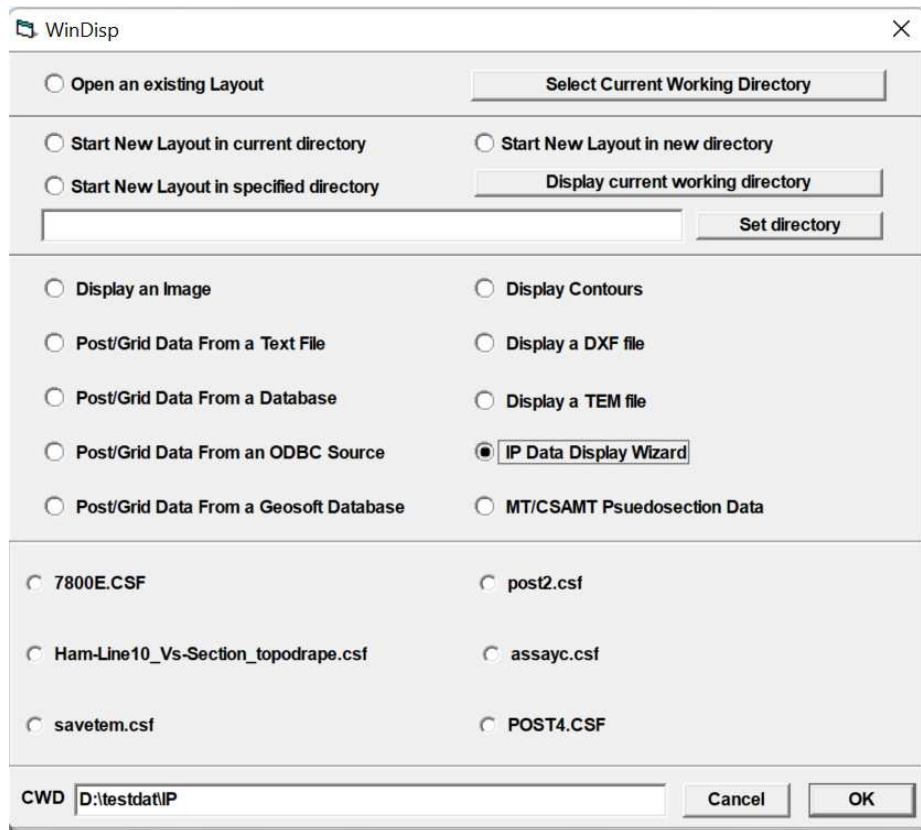
Topo file Formats Supported:

Simple xyz column/delimited data files

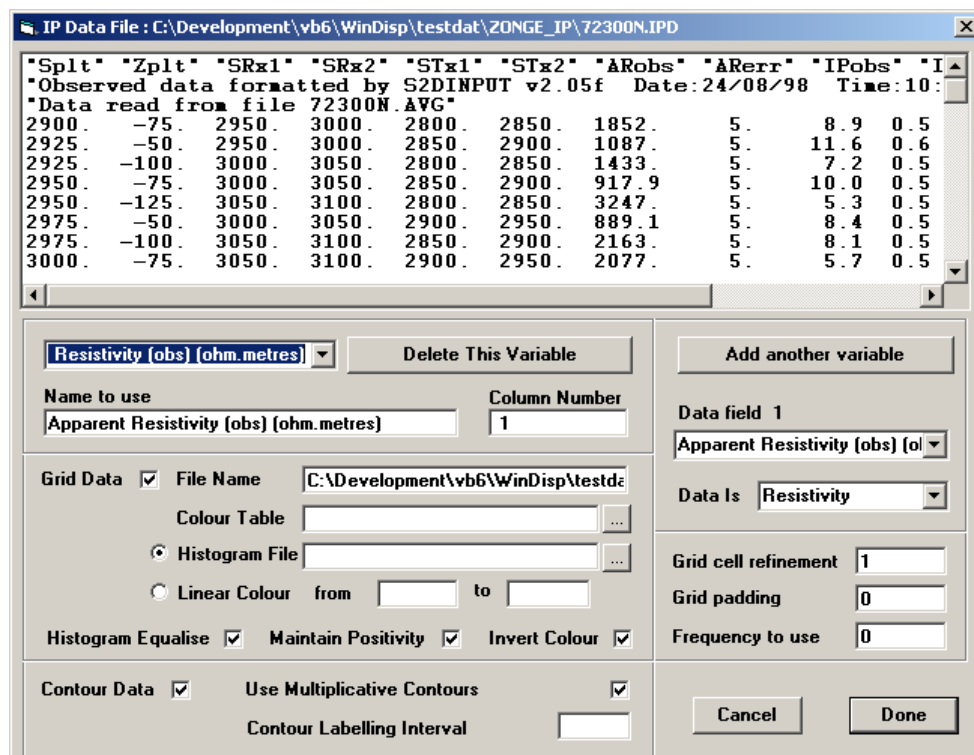
Contour, Shape, EMF, DXF and BMP Display:

Functionality is the same as for standard display mode

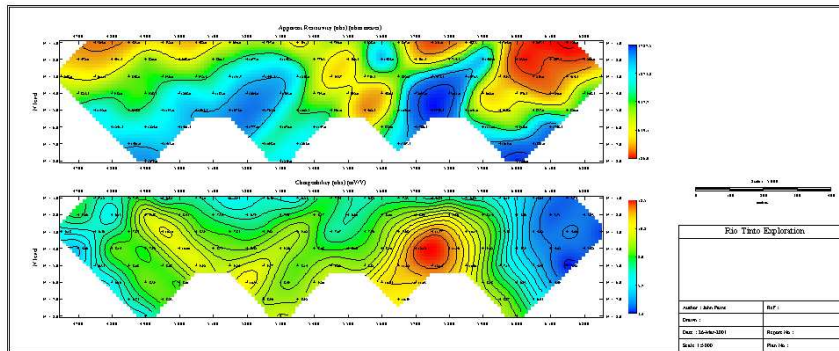
2. IP Display and Inversion Support



Automatic loading of standard Geosoft, Zonge and Loke data as well as Geosoft gdb and simple text file formats



Automatic generation of pseudosection displays



Simple creation and running of inversion files (UBC, Loke and Zonge 2D formats)

UBC IP data variable options

Options

Data Column: Apparent Resistivity [obs] [ohm.m]

Channel Contains: Resistivity

Multiply data value by: 1

Error Floor: 0

☒ Data Uncertainty = 5 % of data Value

☐ Data Uncertainty = Error is percentage ☐

Create Files Cancel Done

UBC IP Inversion for dipole-dipole data

Inversion Data File: 100_abc\100_abcpt.obs

Number of Iterations: 15 Chi Factor: 1

Initial Model: ☒ Use Value Conductivity: 0.005 Resistivity: 200.0 ☐ Use File

Reference Model: ☒ Use Value Conductivity: 0.005 Resistivity: 200.0 ☐ Use File

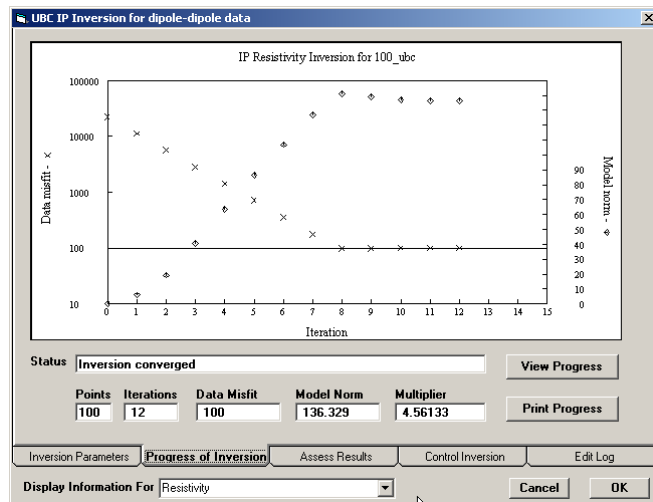
Alpha Values: ☒ Use default values Alpha s: 0.001 Alpha x: 1 Alpha z: 1 ☐ Use specified values ☐ Use dip file

Weight Matrix: ☒ Use default values ☐ Use weight file

Inversion Parameters Progress of Inversion Assess Results Control Inversion Edit Log

Display Information For: Resistivity Cancel OK

Monitoring and analysis of inversion process



UBC IP Inversion for dipole-dipole data

Set Resistivity Inversion to Restart Set Resistivity Inversion to Continue

Set Chargeability Inversion to Restart Set Chargeability Inversion to Continue

Start Resistivity Inversion Stop Resistivity Inversion

Start Chargeability Inversion Stop Chargeability Inversion

Start Full Inversion Stop Full Inversion

Inversion Parameters Progress of Inversion Assess Results Control Inversion Edit Log

Display Information For: Resistivity

Cancel OK

UBC IP Inversion for dipole-dipole data

	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0	5900.0
100.0	1000.9		832.0		276.2		526.8	
150.0		1449.6		602.7		729.2		1324.5
200.0	808.0		900.2		1465.0		1549.0	
250.0		479.5		1946.8		2779.3		600.9
300.0	424.5		992.6		3353.9		1095.0	
350.0		852.8		1620.9				1100.7
400.0			1337.9					
450.0								

Data Value: 251.00 Uncertainty: 12.55 Model Value: 276.19 Z score: -2.01 Show Stats

Data Uncertainty: 12.55 Cancel Edit Save Edit

Increase All by %:

Data value ☐ Uncertainty ☐ Model Value ☒ Z score ☐ Percentage ☐

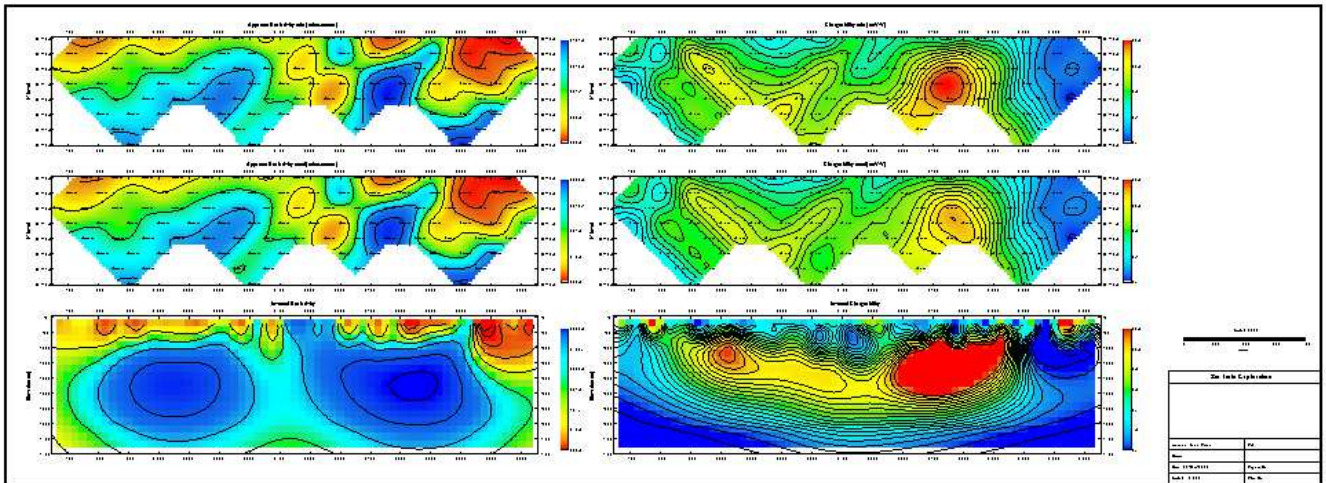
Reload Data Cancel Changes Save Changes

Inversion Parameters Progress of Inversion Assess Results Control Inversion Edit Log

Display Information For: Resistivity

Cancel OK

Automatic generation of displays of inversion results



Automatic generation of depth of investigation displays of inversion results

3. UBC 3D Inversion Support

Simple 5-step process for generating 3d magnetics and gravity inversion input files

UBC 3D Inversion Setup Utility

File Parameters Observed Data Topo Data Mesh Create Inversion

Inversion Parameters

Inversion Method: 1: Magnetic

Inversion Mode: 1: Tradeoff from line search par: 1 tol: 0.02

Alpha s: 0.0001 Alpha e: 1 Alpha n: 1 Alpha v: 1

Initial Model: null

Reference Model: null

Weighting Matrix: null

Magnetic Field

Inclination: -90.00 Declination: 0.00 Intensity: 23300.0

Depth Weighting

Default Specified Weighting beta: 3 znot:

Wavelet Compression

Default Specified Wavelet itol: 1 eps: 0.02

UBC 3D Inversion Setup Utility

File Parameters Observed Data Topo Data Mesh Create Inversion

Mag Data File

File Name: Fortasvi.csv Set Limits from Data File

First data line: 2 X column: 2 Y column: 3 Data read step: 1

Elev column: 9 Elev Offset: 0.0 Data column: 10 Regional Field: 0.0

Target Data Error

% error: 1.00 Error floor: 0.50

Line x y raw_mag_gps_baro_radar_dtm_elev.asvi

12750 317893 9.7694650 0.23320 52.1070 20.1147 57.101 90 -99999 00.968 30.6 8

12750 317894 0.7694641 0.23320 61.1069 60.1146 66.102 26 -99999 00.967 34.6 8

12750 317894 0.7694632 0.23320 78.1068 90.1146 05.100 86 -99999 00.968 04.6 8

12750 317894 2.7694624 0.23321 00.1068 50.1145 44.101 62 -99999 00.966 88.7 5

12750 317894 4.7694615 0.23321 24.1068 20.1144 83.101 77 -99999 00.966 43.7 5

12750 317894 6.7694606 0.23321 51.1067 80.1144 52.104 09 -99999 00.963 71.7 5

12750 317894 9.7694597 0.23321 78.1067 60.1144 22.103 97 -99999 00.963 63.7 5

12750 317895 4.7694589 0.23322 02.1067 50.1144 22.103 21 -99999 00.964 29.7 5

UBC 3D Inversion Setup Utility

File Parameters Observed Data Topo Data Mesh Create Inversion

Use Data file: Fortasvi.csv Set Limits from Data File

First data line: 2 X column: 2 Y column: 3 Data read step: 1

Topo column: 8 Topo Offset: 0.0

Use top of inversion mesh

Line x y raw_mag_gps_baro_radar_dtm_elev.asvi

12750 317893 9.7694650 0.23320 52.1070 20.1147 57.101 90 -99999 00.968 30.6 8

12750 317894 0.7694641 0.23320 61.1069 60.1146 66.102 26 -99999 00.967 34.6 8

12750 317894 0.7694632 0.23320 78.1068 90.1146 05.100 86 -99999 00.968 04.6 8

12750 317894 2.7694624 0.23321 00.1068 50.1145 44.101 62 -99999 00.966 88.7 5

12750 317894 4.7694615 0.23321 24.1068 20.1144 83.101 77 -99999 00.966 43.7 5

12750 317894 6.7694606 0.23321 51.1067 80.1144 52.104 09 -99999 00.963 71.7 5

12750 317894 9.7694597 0.23321 78.1067 60.1144 22.103 97 -99999 00.963 63.7 5

12750 317895 4.7694589 0.23322 02.1067 50.1144 22.103 21 -99999 00.964 29.7 5

12750 317895 8.7694580 0.23322 23.1067 50.1144 22.102 57 -99999 00.964 93.7 5

UBC 3D Inversion Setup Utility

File Parameters Observed Data Topo Data Mesh Create Inversion

X mesh definitions

Min: 317000 Max: 327000 Cell size: 200 Number: 50

Y mesh definitions

Min: 7685000 Max: 7692000 Cell size: 200 Number: 35

Z mesh definitions

Min: 0 Max: 1250 Cell size: 50 Number: 25

Multiplier: 1 Number: 0 Bottom: 0.0 Total: 25

Mesh Options

Add padding cells

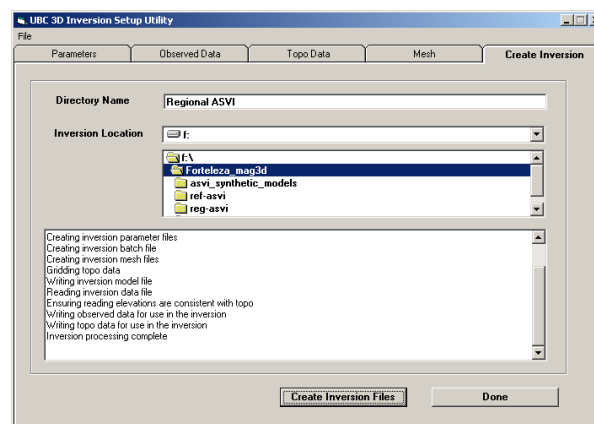
Region to View

Image File to View

View Mesh Layout

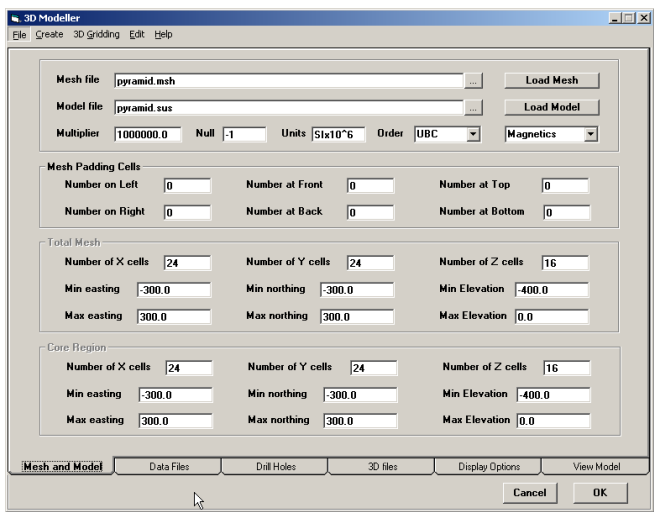
Refinement of existing inversion to smaller cell size

An existing inversion can be refined to a smaller cell size with the total refined inversion broken up automatically into manageable tiles.

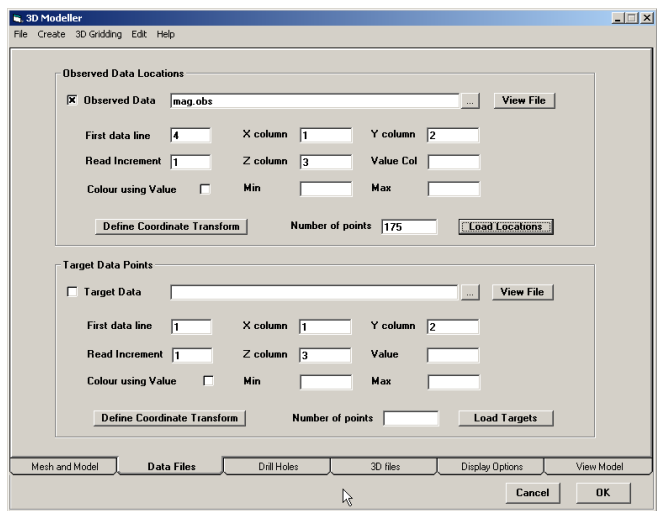


4. UBC 3D Model Display

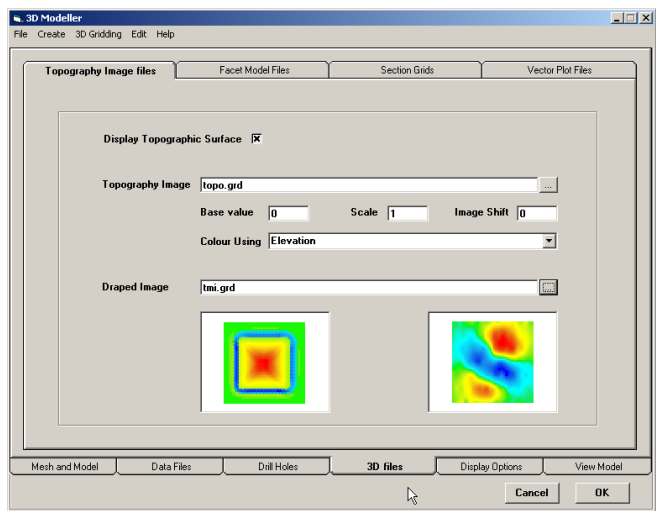
3d model files:



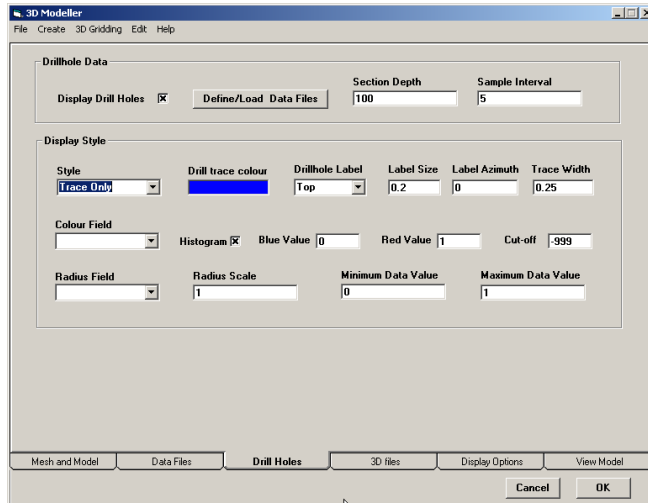
3d data points



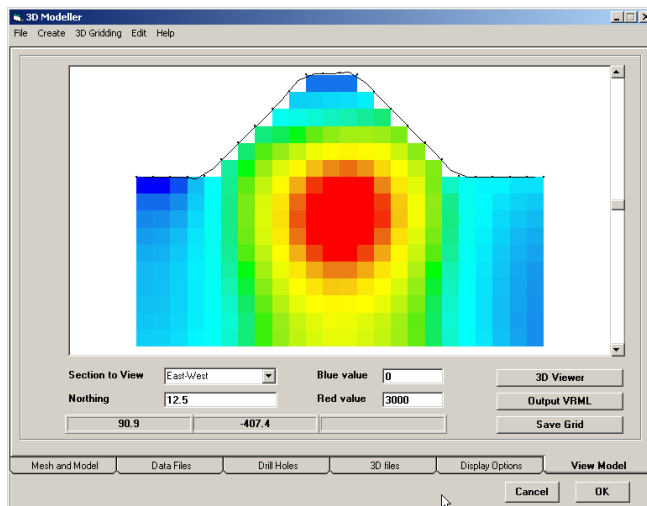
Topography and draped images



Display of drillhole data



Display of 2D sections from inverted model



Export of sections to Geosoft binary grid format
Output of model to VRML format

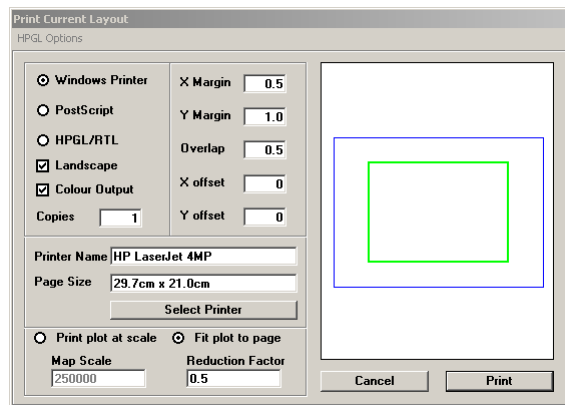
Processing Options:

- Creation of 3D model from drillhole/point data
- Creation of 3D model from vertical section grids
- Creation of 3D model from loaded data points

Editing of 3D model to modify features or insert simple geometric shapes

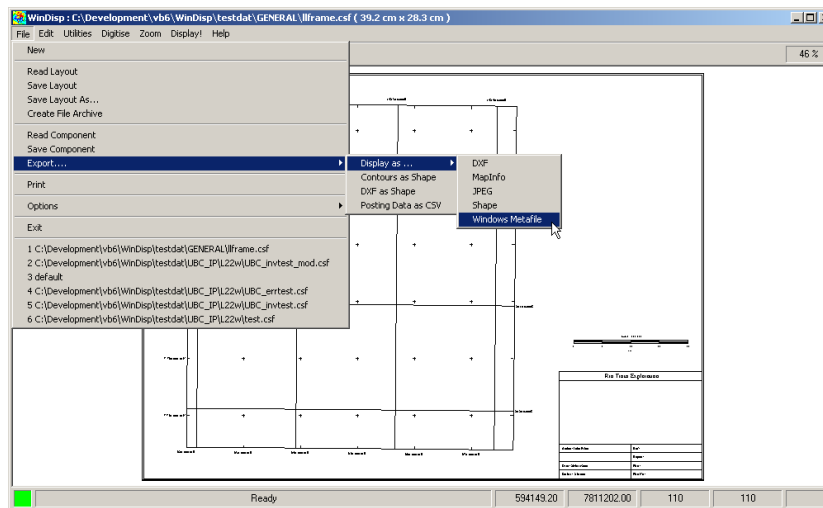
5. Printer Support

All Standard Windows Printers with option to scale plot to page or output multiple plot panels



PostScript and DXF output support included

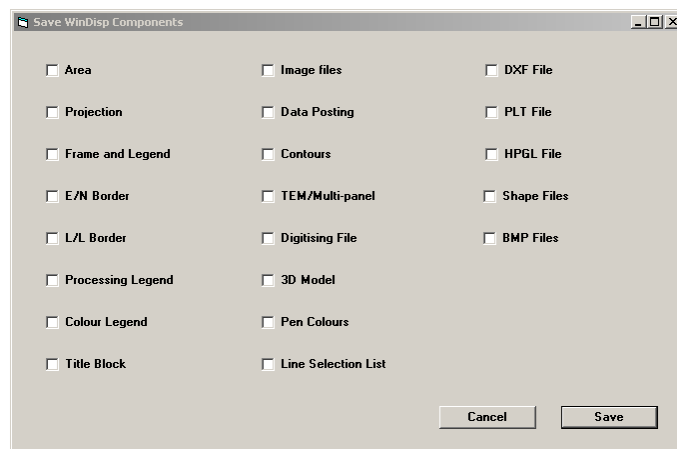
Export of display to clipboard/ Shape file/ MapInfo/DXF/JPEG



6. Saving Layouts

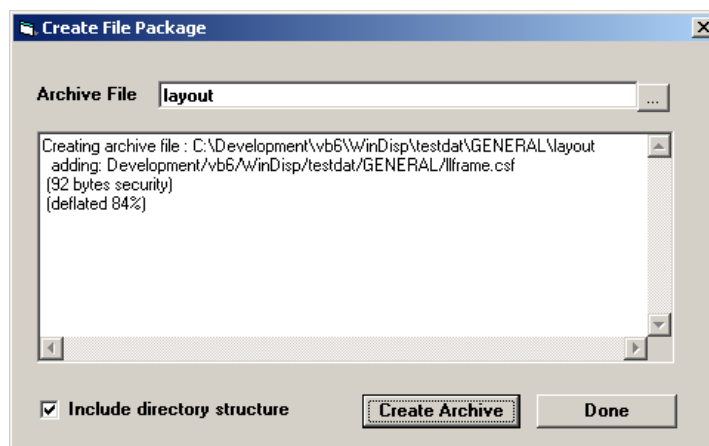
Saving/reading of entire layout definition

Saving/Reading individual components of layout (eg Frame, Posting, Image etc)



7. Archive Function

Complete archive creation of all files used in a layout into a single zip file



3D modeller Option (not included in standard WinDisp licence)

- Display of topography with draped colour grid or raster image
- Display of Datamine/Gemcom/Vulcan triangular facet model files
- Display of vertical section grids (Geosoft/ErMapper/BMP/JPG)
- Contour/DXF/Shape file overlays draped over topography
- Display of drillhole data using simple trace, coloured trace, variable radius trace
- Saving of 3D model display for distribution to clients (free 3D viewer included)
- Saving of model viewpoints to highlight particular features of the model
- Ability to turn off individual components of the 3D model
- Axis clipping planes (east/west, north/south and top/bottom)
- Individual model components can be shifted up and down within the viewer
- 3D location coordinates of mouse within view and location of picked features
- User defined lighting position
- Individual model components can have colour and/or transparency changed
- Individual model components can be switched on/off or deleted

