

Feature	Academic Packages					Near Surface/Geotechnical Series			
	Free EMGMA BASIC	EMGMA for Academics	FEM	Potential Fields	Complete PREMIUM	Complete Professional	Resistivity IP	FEM	Magnetics
<b>BASIC tools</b>									
Database backbone	*	*	*	*	*	*	*	*	*
Unlimited Survey Size	*	*	*	*	*	*	*	*	*
Plotting	*	*	*	*	*	*	*	*	*
Data editing	*	*	*	*	*	*	*	*	*
Raw Gravity Corrections	*	*	*	*	*	*	*	*	*
Data merging	*	*	*	*	*	*	*	*	*
Trend removal	*	*	*	*	*	*	*	*	*
Co-ordinate grid translations	*	*	*	*	*	*	*	*	*
Decimation filters	*	*	*	*	*	*	*	*	*
Averaging filters	*	*	*	*	*	*	*	*	*
Interpolation filters	*	*	*	*	*	*	*	*	*
Spatial filters -1D/2D	*	*	*	*	*	*	*	*	*
<i>mean, median, Gaussian, spline</i>	*	*	*	*	*	*	*	*	*
Gridding/gradient gridding	*	*	*	*	*	*	*	*	*
Local - Natural Neighbor, Shepard, Delauney	*	*	*	*	*	*	*	*	*
Global - Minimum Curvature, Splines	*	*	*	*	*	*	*	*	*
rectangular grid cells	*	*	*	*	*	*	*	*	*
Contouring	*	*	*	*	*	*	*	*	*
Data surfaces	*	*	*	*	*	*	*	*	*
3D Visualizer	*	*	*	*	*	*	*	*	*
PseudoShow	*	*	*	*	*	*	*	*	*
Export functions	*	*	*	*	*	*	*	*	*
<i>data, images</i>	*	*	*	*	*	*	*	*	*
Mapping tools - Geocif Import/Export	*	*	*	*	*	*	*	*	*
<i>raster calibration, annotation, underlays</i>	*	*	*	*	*	*	*	*	*
<b>SURVEY STYLES</b>									
ground	*	*	*	*	*	*	*	*	*
airborne	*	*	*	*	*	*	*	*	*
borehole	*	*	*	*	*	*	*	*	*
marine	*	*	*	*	*	*	*	*	*
cross borehole	*	*	*	*	*	*	*	*	*
<b>POTENTIAL FIELD PROCESSING</b>									
<i>total field, components, derivatives</i>	*	*	*	*	*	*	*	*	*
derivative calculation	*	*	*	*	*	*	*	*	*
upward continuation	*	*	*	*	*	*	*	*	*
downward continuation	*	*	*	*	*	*	*	*	*
wavelength filters	*	*	*	*	*	*	*	*	*
Reduction-to-the-Pole	*	*	*	*	*	*	*	*	*
<i>FFT, enhanced FFT, equivalent source</i>	*	*	*	*	*	*	*	*	*
magnetic Compensation	*	*	*	*	*	*	*	*	*
gradient de-Rotation	*	*	*	*	*	*	*	*	*
<b>INVERSION</b>									
<b>imaging</b>									
Apparent resistivity inversions	*	*	*	*	*	*	*	*	*
Sengpiel Depths for Airborne FEM	*	*	*	*	*	*	*	*	*
Airborne TEM CDI	*	*	*	*	*	*	*	*	*
<b>layered 1D inversions<sup>3</sup></b>									
Smooth Overparametrized	*	*	*	*	*	*	*	*	*
Marquardt	*	*	*	*	*	*	*	*	*
Thickness constraints	*	*	*	*	*	*	*	*	*
Resistivity bounds	*	*	*	*	*	*	*	*	*
Entire surveys	*	*	*	*	*	*	*	*	*
TEM MultiStation, MultiComponent	*	*	*	*	*	*	*	*	*
Section contouring and display	*	*	*	*	*	*	*	*	*
3D volume display and slicing	*	*	*	*	*	*	*	*	*
<b>3D inversions<sup>2</sup></b>									
Linear Born inversion	*	*	*	*	*	*	*	*	*
Gradient inversion	*	*	*	*	*	*	*	*	*
3D starting model	*	*	*	*	*	*	*	*	*
Inversion grid starting model	*	*	*	*	*	*	*	*	*
Airborne	*	*	*	*	*	*	*	*	*
Ground	*	*	*	*	*	*	*	*	*
Borehole	*	*	*	*	*	*	*	*	*
<b>Suite of Models</b>									
plate suite	*	*	*	*	*	*	*	*	*
layer suite	*	*	*	*	*	*	*	*	*
prism suite	*	*	*	*	*	*	*	*	*
optimizer tool	*	*	*	*	*	*	*	*	*
<b>Quasi-3D for Potential Fields</b>									
3D Extended Euler	*	*	*	*	*	*	*	*	*
Filtering	*	*	*	*	*	*	*	*	*
Clustering	*	*	*	*	*	*	*	*	*
Magnetization Vectors	*	*	*	*	*	*	*	*	*
<b>MODELLING</b>									
3D Prisms	*	*	*	*	*	*	*	*	*
3D Thin-Sheets	*	*	*	*	*	*	*	*	*
Polyhedra models	*	*	*	*	*	*	*	*	*
Multiple Prisms	*	*	*	*	*	*	*	*	*
Multiple Plates	*	*	*	*	*	*	*	*	*
Linear (Weak) Algorithms	*	*	*	*	*	*	*	*	*
Non-Linear Algorithms	*	*	*	*	*	*	*	*	*
High Accuracy Inductive Plates	*	*	*	*	*	*	*	*	*
Interactions	*	*	*	*	*	*	*	*	*
Frequency-to-Time transforms	*	*	*	*	*	*	*	*	*
<i>system specific/bandwidth limited/calibrated</i>	*	*	*	*	*	*	*	*	*
<b>XHOLE Tools</b>									
Tomography									
3D Modelling									
grounded/ungrounded electric antennae									
magnetic dipole antennae									

Notes: 1 : includes magnetics

2 : for gravity, magnetics or resistivity

Feature	Premium Series											
	Gravity	Magnetics	FEM	TEM	Potential Fields	Airborne FEM <sup>1</sup>	Airborne TEM/FEM <sup>1</sup>	Res / IP	CSAMT	MT/VLFR	GROUND & Borehole	Complete Premium
<b>BASIC tools</b>												
Database backbone	*	*	*	*	*	*	*	*	*	*	*	*
Unlimited Survey Size	*	*	*	*	*	*	*	*	*	*	*	*
Plotting	*	*	*	*	*	*	*	*	*	*	*	*
Data editing	*	*	*	*	*	*	*	*	*	*	*	*
Raw Gravity Corrections	*	*	*	*	*	*	*	*	*	*	*	*
Data merging	*	*	*	*	*	*	*	*	*	*	*	*
Trend removal	*	*	*	*	*	*	*	*	*	*	*	*
Co-ordinate grid translations	*	*	*	*	*	*	*	*	*	*	*	*
Decimation filters	*	*	*	*	*	*	*	*	*	*	*	*
Averaging filters	*	*	*	*	*	*	*	*	*	*	*	*
Interpolation filters	*	*	*	*	*	*	*	*	*	*	*	*
Spatial filters -1D/2D	*	*	*	*	*	*	*	*	*	*	*	*
<i>mean, median, Gaussian, spline</i>	*	*	*	*	*	*	*	*	*	*	*	*
Gridding/gradient gridding	*	*	*	*	*	*	*	*	*	*	*	*
Local - Natural Neighbor, Shepard, Delauney	*	*	*	*	*	*	*	*	*	*	*	*
Global - Minimum Curvature, Splines	*	*	*	*	*	*	*	*	*	*	*	*
rectangular grid cells	*	*	*	*	*	*	*	*	*	*	*	*
Contouring	*	*	*	*	*	*	*	*	*	*	*	*
Data surfaces	*	*	*	*	*	*	*	*	*	*	*	*
3D Visualizer	*	*	*	*	*	*	*	*	*	*	*	*
PseudoShow	*	*	*	*	*	*	*	*	*	*	*	*
Export functions	*	*	*	*	*	*	*	*	*	*	*	*
<i>data, images</i>	*	*	*	*	*	*	*	*	*	*	*	*
Mapping tools - Geocif Import/Export	*	*	*	*	*	*	*	*	*	*	*	*
<i>raster calibration, annotation, underlays</i>	*	*	*	*	*	*	*	*	*	*	*	*
<b>SURVEY STYLES</b>												
ground	*	*	*	*	*	*	*	*	*	*	*	*
airborne	*	*	*	*	*	*	*	*	*	*	*	*
borehole	*	*	*	*	*	*	*	*	*	*	*	*
marine	*	*	*	*	*	*	*	*	*	*	*	*
cross borehole	*	*	*	*	*	*	*	*	*	*	*	*
<b>POTENTIAL FIELD PROCESSING</b>												
<i>total field, components, derivatives</i>	*	*	*	*	*	*	*	*	*	*	*	*
derivative calculation	*	*	*	*	*	*	*	*	*	*	*	*
upward continuation	*	*	*	*	*	*	*	*	*	*	*	*
downward continuation	*	*	*	*	*	*	*	*	*	*	*	*
wavelength filters	*	*	*	*	*	*	*	*	*	*	*	*
Reduction-to-the-Pole	*	*	*	*	*	*	*	*	*	*	*	*
<i>FFT, enhanced FFT, equivalent source</i>	*	*	*	*	*	*	*	*	*	*	*	*
magnetic Compensation	*	*	*	*	*	*	*	*	*	*	*	*
gradient de-Rotation	*	*	*	*	*	*	*	*	*	*	*	*
<b>INVERSION</b>												
<b>imaging</b>												
Apparent resistivity inversions	*	*	*	*	*	*	*	*	*	*	*	*
Sengpiel Depths for Airborne FEM	*	*	*	*	*	*	*	*	*	*	*	*
Airborne TEM CDI	*	*	*	*	*	*	*	*	*	*	*	*
<b>layered 1D inversions<sup>3</sup></b>												
Smooth Overparametrized	*	*	*	*	*	*	*	*	*	*	*	*
Marquardt	*	*	*	*	*	*	*	*	*	*	*	*
Thickness constraints	*	*	*	*	*	*	*	*	*	*	*	*
Resistivity bounds	*	*	*	*	*	*	*	*	*	*	*	*
Entire surveys	*	*	*	*	*	*	*	*	*	*	*	*
TEM MultiStation, MultiComponent	*	*	*	*	*	*	*	*	*	*	*	*
Section contouring and display	*	*	*	*	*	*	*	*	*	*	*	*
3D volume display and slicing	*	*	*	*	*	*	*	*	*	*	*	*
<b>3D inversions<sup>2</sup></b>												
Linear Born inversion	*	*	*	*	*	*	*	*	*	*	*	*
Gradient inversion	*	*	*	*	*	*	*	*	*	*	*	*
3D starting model	*	*	*	*	*	*	*	*	*	*	*	*
Inversion grid starting model	*	*	*	*	*	*	*	*	*	*	*	*
Airborne	*	*	*	*	*	*	*	*	*	*	*	*
Ground	*	*	*	*	*	*	*	*	*	*	*	*
Borehole	*	*	*	*	*	*	*	*	*	*	*	*
<b>Suite of Models</b>												
plate suite	*	*	*	*	*	*	*	*	*	*	*	*
layer suite	*	*	*	*	*	*	*	*	*	*	*	*
prism suite	*	*	*	*	*	*	*	*	*	*	*	*
optimizer tool	*	*	*	*	*	*	*	*	*	*	*	*
<b>Quasi-3D for Potential Fields</b>												
3D Extended Euler	*	*	*	*	*	*	*	*	*	*	*	*
Filtering	*	*	*	*	*	*	*	*	*	*	*	*
Clustering	*	*	*	*	*	*	*	*	*	*	*	*
Magnetization Vectors	*	*	*	*	*	*	*	*	*	*	*	*
<b>MODELLING</b>												
3D Prisms	*	*	*	*	*	*	*	*	*	*	*	*
3D Thin-Sheets	*	*	*	*	*	*	*	*	*	*	*	*
Polyhedra models	*	*	*	*	*	*	*	*	*	*	*	*
Multiple Prisms	*	*	*	*	*	*	*	*	*	*	*	*
Multiple Plates	*	*	*	*	*	*	*	*	*	*	*	*
Linear (Weak) Algorithms	*	*	*	*	*	*	*	*	*	*	*	*
Non-Linear Algorithms	*	*	*	*	*	*	*	*	*	*	*	*
High Accuracy Inductive Plates	*	*	*	*	*	*	*	*	*	*	*	*
Interactions	*	*	*	*	*	*	*	*	*	*	*	*
Frequency-to-Time transforms	*	*	*	*	*	*	*	*	*	*	*	*
<i>system specific/bandwidth limited/calibrated</i>	*	*	*	*	*	*	*	*	*	*	*	*
<b>XHOLE Tools</b>												
Tomography												
3D Modelling												
grounded/ungrounded electric antennae												
magnetic dipole antennae												

3 : for FDEM, TDEM or Resistivity

o : upgrade option

\* : included feature