



# Geoscience ANALYST

## Compare versions



Mira Geoscience  
...modelling the earth

	Viewer	Pro	Pro Geophysics
<b>Pricing</b>	Free	\$995/yr	Starts from \$2500/yr
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<b>Open format data file</b>			
Read and write open format geoh5 files	Y	Y	Y
<b>Visualization and data editing</b>			
Object types: drillholes/wells; curves/polylines; wireframe surfaces; 2D grids; 3D block models; regular, tensor, and octree 3D grids; topographically-draped, crooked-line 2D sections	Y	Y	Y
GDAL coordinate reference system transformations	-	Y	Y
Image registration to geographic locations	-	Y	Y
Import, visualize, annotate, save, and distribute 3D geoscientific and mining data, models, and embedded documents/files	Y	Y	Y
Data types: scalar, vector, text, categorical, and boolean	Y	Y	Y
Tabular display of data values linked to visualization	Y	Y	Y
Map and 2D profile views	Y	Y	Y
Advanced interactive model clipping and slicing	Y	Y	Y
Drape points, curves, and surfaces on surfaces	Y	Y	Y
Texture drape geomages and grids on surfaces	Y	Y	Y
Create and edit objects in 2D and 3D	-	Y	Y
Scripting	-	Y	Y
<b>Import</b>			
acquire GIM Suite database	Y	Y	Y
AMIRA TEM	Y	Y	Y
ASCII	Y	Y	Y
AutoCAD DXF, DWG	Y	Y	Y
Datamine	Y	Y	Y
ESRI	Y	Y	Y
GeoImages BMP JPG TIF (.w)	Y	Y	Y
Geosoft XYZ, GRD, GDB	Y	Y	Y
GOCAD objects	Y	Y	Y
ioGAS	Y	Y	Y
Maxwell plates	Y	Y	Y
ODBC drillholes	Y	Y	Y
Raster GeoTIFF, ERS, GRD	Y	Y	Y
SEG-Y 2D / 3D	Y	Y	Y
VP models	Y	Y	Y
UBC-GIF	Y	Y	Y
<b>Export</b>			
Any objects to open source geoh5	Y	Y	Y
Curves to Geosoft GDB and ESRI SHP	-	Y	Y
Points, curves, and surfaces to GOCAD ASCII files (mx)	-	Y	Y
Drillholes: collar, survey, interval, and point log to CSV files	-	Y	Y
Data tables export to CSV	-	Y	Y
2D Grid to TIFF and ERS	-	Y	Y
Block Models to UBC grid and model, and ASCII (csv.txt) – Leapfrog-friendly	-	Y	Y
UBC observation files	-	-	Y
VP models	-	Y	Y

(Continued on next page)

	Viewer	Pro	Pro Geophysics
<b>Drillholes</b>			
Advanced drillhole analysis, design, and targeting	-	Y	Y
Compute distance to drillholes and visualize on geological model	-	Y	Y
Desurvey drillholes	-	Y	Y
<b>Data processing</b>			
Property transfer between Points, Curves, Surfaces, 2D Grid, and Block Model objects	-	Y	Y
Minimum curvature gridding	-	Y	Y
Fourier domain filtering	-	Y	Y
K-means clustering	-	Y	Y
Gravity corrections	-	Y	Y
Trend removal	-	Y	Y
<b>Geophysical Survey Design</b>			
Ground gravity and magnetics	-	Y	Y
Airborne gravity and magnetics	-	Y	Y
DC/IP	-	Y	Y
Seismic reflection	-	Y	Y
<b>Geophysical modelling and inversion</b>			
API for running inversions on on-premise or cloud-hosted HPC environments	-	-	Y
Live connection to Maxwell	-	Y	Y
EM loop modelling	-	Y	Y
3D grid/block model designer with increasing cell size with depth and padding	-	Y	Y
Unlimited gravity, magnetic (TMI), and gravity gradient forward modelling	-	Y	Y
Unlimited gravity, magnetic, and gravity gradient inversion	-	Y	Y
Magnetic component and remanent magnetization modelling and inversion	-	-	Y
Geologically-constrained inversion	-	-	Y
Assign 3D grid/block model cells to geological units	-	-	Y
Geological contact and depth to basement inversion	-	-	Y
Physical property inversion across all methods	-	-	Y
1D EM data inversion	-	-	Y
User interface to UBC-GIF, VP Suite, and SimPEG programs*	-	-	Y
Prepare data, create 3D grids, incorporate physical property constraints and run inversions for UBC-GIF and VP Suite programs	-	-	Y
<b>Connectivity</b>			
Python API	Y	Y	Y
Live connection to Python including geoapps, plus Python UI creation tools	-	Y	Y
Live connection to ioGAS	-	Y	Y
Live connection to Maxwell	-	Y	Y
Live connection to Geoscience INTEGRATOR data management system	Y	Y	Y

\* UBC-GIF: GRAV3D, GG3D, MAG3D, MVI, DCIP2D, DCIP3D, MVI, OCTGRVDE, OCTMADGE, DCIPoctree, E3DMT (MT/ZTEM), and TDocTree (TEM).

VP Suite: VPmg, VPem1D

SimPEG: MVI, Gravity, DC, IP