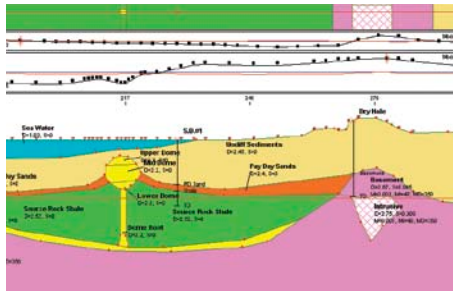


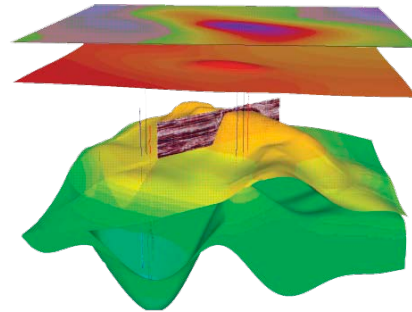
# Which modelling solution is right for you?

## A quick overview of GM-SYS Profile and GM-SYS 3D Modelling



### GM-SYS Profile

Superior gravity and magnetics modelling solution



### GM-SYS 3D

3D gravity and magnetic modelling

#### Overview

GM-SYS Profile Modelling is a user friendly and feature rich interactive gravity and magnetic mapping program. Using the Oasis montaj platform, it provides a range of gravity and magnetic mapping, modelling and interpretation solutions.

GM-SYS 3D is 3D gravity and magnetic modelling software for layer-earth models, developed as an extension for Oasis montaj. The extension, which requires MAGMAP, enables explorers to model complicated three dimensional subsurface structures of any size or scale.

#### Key Benefits

Geosoft's Oasis montaj earth mapping platform combined with GM-SY Profile gravity and magnetic modelling software:

- Creates an integrated 2D visualisation and modelling solution for Oil and Gas explorers identifying and characterizing potential reservoirs.
- Provides an optimal environment for integrating, viewing and comparing large volume geophysical, geochemical and geological data including well data in LAS format.
- Accelerates data analysis to support effective interpretation and target selection in daily decision making.
- Maximises the accuracy of final interpretations, thus helping to improve the potential for successful discoveries, reduce risk and minimise costs.

Geosoft's Oasis montaj earth mapping platform combined with GM-SYS 3D:

- Creates an integrated 3D visualisation and modelling solution for Oil and Gas explorers identifying and characterizing potential reservoirs.
- Easily create realistic models: layer properties may be constant, vary laterally or vary with depth or defined via a 3D voxel.
- Helps improve the potential for successful discoveries, reduce risks and keep costs down.
- Provides an optimal environment for integrating, viewing and comparing large volume geophysical, geochemical and geological data.
- Accelerates data analysis to support effective interpretation and target selection in daily decision making.
- Maximises the accuracy of final interpretations and optimise the more expensive aspects of their exploration program such as seismic acquisition or drilling.
- Unique hybrid approach to modelling, incorporating grids, geosurfaces, and 3D voxels for improved velocity models and seismic interpretations.

	<ul style="list-style-type: none"> <li>Resolve base of salt from gravity bound by constraints of seismic modelling with more accurate representation of salt geometry and sub-salt density distributions.</li> </ul>
<b>Key Features</b>	
<ul style="list-style-type: none"> <li>Rapid model creation with the “starting model wizard”.</li> <li>Access Velocity/Density conversion tools.</li> <li>Flexible and robust model structure.</li> <li>Interactive model editing.</li> <li>Comprehensive model response.</li> <li>Time to depth conversion.</li> <li>Calculate the Geomagnetic Reference Field for a specific location and date.</li> <li>Enhanced Block Spreadsheet.</li> <li>Advanced and Intermediate Options available.</li> <li>Convert to/from other modelling software formats.</li> </ul>	<ul style="list-style-type: none"> <li>Full Tensor Gravity Gradient Joint Inversion.</li> <li>Edit models to exactly your specifications, using inversion and other tools.</li> <li>Easily create realistic model structure – no limit to the number of layers or size of models.</li> <li>Thoroughly examine models – view model from any vantage point from both inside and outside the model.</li> <li>Convert from time model to depth model.</li> <li>Speed the modelling process and help to constrain variables, using a variety of import and export features.</li> <li>Sophisticated model response including gravity stripping.</li> <li>Power and speed of cloud computing from your desktop with VALEM 3D gravity inversion service.</li> <li>Integrates with other software.</li> </ul>
<b>Options</b>	
<p><b>Intermediate option includes:</b></p> <ul style="list-style-type: none"> <li>2¾D modelling.</li> <li>Joint Inversion.</li> <li>Seismic Bitmap.</li> </ul> <p><b>Advanced option includes:</b></p> <ul style="list-style-type: none"> <li>SEG-Y Reader.</li> <li>Gravity &amp; magnetic gradient calculations.</li> <li>High-resolution modelling.</li> <li>Grid response.</li> </ul>	<ul style="list-style-type: none"> <li>VALEM on-demand, cloud-based inversion service, offered as an addition to the GM-SYS 3D extension for Oasis montaj.</li> </ul>
<b>Differences</b>	
<ul style="list-style-type: none"> <li>Suitable for modelling 2D or 2½ D (pseudo- 3D) structures.</li> <li>Real-time calculation feedback as model is edited.</li> </ul>	<ul style="list-style-type: none"> <li>Model complex 3D environments.</li> <li>Multiple inversion algorithms to optimise model.</li> <li>Full 3D visualisation.</li> </ul>
<b>Requirements</b>	
<ul style="list-style-type: none"> <li>Software requirements: Geosoft Oasis montaj.</li> <li>Hardware requirements are available on the Geosoft web site.</li> </ul>	<ul style="list-style-type: none"> <li>Software requirements: Geosoft Oasis montaj + MAGMAP Filtering Extension.</li> <li>Hardware requirements are available on the Geosoft web site.</li> </ul>
<b>Price</b>	
<ul style="list-style-type: none"> <li>Contact a Geosoft Solution Advisor.</li> </ul>	<ul style="list-style-type: none"> <li>Contact a Geosoft Solution Advisor.</li> </ul>