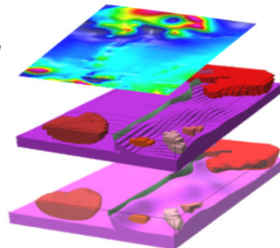
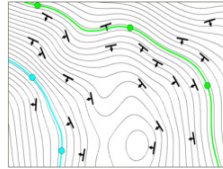


New in GeoModeller :

- Improved mesh grid handling and visualisation
- Improved drill hole management and kriging
- Tetrahedral meshing with CGAL libraries
- Quantitative methods for estimating geological uncertainty
- Integrated 1D and 2.5D airborne EM inversion - as a Bureau Service

GeoModeller is a software tool for building complex, steady state, **implicit 3D geology** from integrated data sets. Forward and inverse modelling of potential field geophysics directly from 3D geology are integral to the comprehensive user interface.

- Constrained by coupled primary geology observations: contacts & orientation data
- Drill hole intercepts are optional constraints
- Interpolates 3D surfaces by a 'potential field method'
- 'Rule-based modelling' handles complex fault networks and stratigraphic piles, as further constraints of the model
- Models are geolocated in real world projection systems
- Rapidly revised models with new data
- 3D viewer and slicing tools
- Support for: DXF, STEP, STL, Vulcan, Tsurf, Sgrids, IGES, ASCII, VRML, GeoSciML, Petrel, ZMap



Forward and inverse geophysics modelling

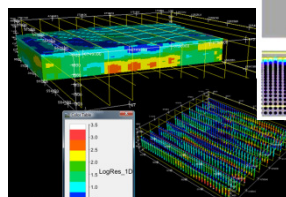
- Supports: Gravity, Magnetics, Full Tensor (Gradiometry), airborne EM, geothermal
- Commence forward / inverse modelling from a *GeoModeller* model, or an imported voxel
- Constrained or semi-constrained inversions

GeoModeller Grav/Mag inversion is litho-constrained and stochastic. Inversion continues beyond a satisfactorily low misfit level (referencing observed geophysics at set precisions), exploring and keeping a range of allowable models, and presenting distilled statistics of these, in terms of probabilities and thus uncertainty metrics for geology-geometries and rock properties

- Comprehensive post-inversion products add value and insight to your regional exploration and local-scale projects

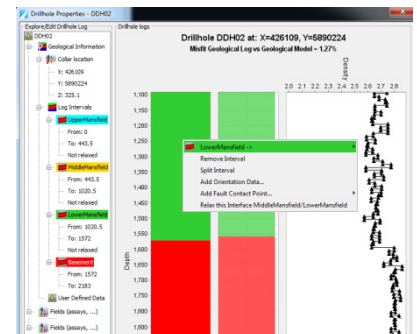
Airborne EM 1D and 2.5D inversion – as a Bureau Service

- new GSVD solver replaces ArjunAir
- includes adaptive regularisation
- incorporates a misfit to the reference model
- includes a model smoothness function
- Products ready for your *GeoModeller* workspace
- *Ask us for a line-km basis quote !*



Drill hole Management

- Full support for drill logs and attributed data
- Interpolation methods including 'domain kriging' (uniquely mimics bedding and geology-geometry for superior kriging)



Grids/meshes management

- 3D grids/mesh calculator
- Adaptive tetrahedral meshing

