

Groundwater Vistas (GV)

Leading software package for 3D groundwater flow and contaminant transport modelling, calibration and optimisation using the MODFLOW suite of codes.

GV is a pre and post-processor for MODFLOW modelling codes, designed as a model-independent system so you only need to learn one software program in order to use a wide range of groundwater models. GV is the modelling software of choice for the Environment Agency and has become the leading MODFLOW pre and post-processing solution worldwide.

Main Features

The GV graphical user interface (GUI) offers a unique seamless interface applicable to a wide variety of models and all supported models can be run from within GV.

Two-dimensional visualization is utilized in both plan and cross-sectional views for contour plots, pathlines, and velocity vectors. In Professional and Premium versions, three-dimensional animation is the most effective way to observe transient changes in parameters, head and contaminant concentrations, piezometric surfaces, pathlines, velocity vectors and isosurfaces of contaminant plumes.

The GUI is compatible with ArcView, SURFER and Microsoft Excel for data import/export. Existing MODFLOW, ModelCAD & Flowpath files can be imported. Results can be exported to SURFER, Slicer, DXF, BMP, WMF, Earth Vision, EVS, Tecplot, ArcView and ASCII files.

New features of GV7 include:

- Support for new model versions, including MODFLOW-NWT V1.2.0, MODFLOW-USG V1.5 and Transport V1.5.0, MODFLOW-USG Transport with PHREEQC, MODFLOW 6 V6.1.1, MODFLOW 6 Transport (when released), and MT3D-USGS V1.1.0.
- PEST V17.05 with BEOPEST and PEST++ IES, PEST_HP included (for highly parameterised inversions).
- Algomesh V2 provided in new GV8 Professional and Premium licences, and as an additional charge in upgrades from GV7.
- 3D Quadtree grids (Octree) in MODFLOW-USG and MODFLOW 6.
- Triangular and Voronoi grids for MODFLOW-USG (Professional and Premium licences only), including different grid layout in each layer.
- Updated SAMG solver for MODFLOW-USG Transport and MODFLOW2005 (requires additional purchase).
- Density-dependent flow/transport in MODFLOW-USG Transport.
- Transport in CLN Domain with concentration display.
- PHREEQC in MODFLOW-USG for geochemical transport (PHT-USG)
- MODFLOW 6 UZF Package and Water Mover Package
- Interface improvements and new tutorials, including SEAWAT, heat transport, and use of BEOPEST/PEST_HP

GV7 include:

| Feature | Standard* | Advanced | Professional | Premium |
|---|-----------|-----------|--------------|-----------|
| 64-bit | X | X | X | X |
| Maximum no. of nodes | 1 million | unlimited | unlimited | unlimited |
| Maximum no. of stress periods | 250 | unlimited | unlimited | unlimited |
| MODFLOW (88/96, 2000, 2005, NWT) | X | X | X | X |
| MODFLOW-USG (normal rectangular grids only) | X | X | X | X |
| MODFLOW-USG and MODFLOW 6 (nested/quadtrees grids) | | X | X | X |
| Algomesh licence for designing Voronoi and triangular grids | | | X | X |
| MODPATH | X | X | X | X |
| Mod-Path3DU | | X | X | X |
| MT3DMS and MT3D-USGS | X | X | X | X |
| PEST (basic options) | X | X | X | X |
| PEST SVD-Assist and Null Space Monte Carlo | X | X | X | X |
| PEST Linear Uncertainty Analysis | X | X | X | X |
| BEOPEST/PEST_HP support | X | X | X | X |
| Monte Carlo simulation | X | X | X | X |
| Support for MODFLOW-SURFACT* | X | X | X | X |
| SEAWAT version 4 | X | X | X | X |
| CLN Polylines (MODFLOW-USG) & Turbulent Flow | | X | X | X |
| HUF Package support | | X | X | X |
| Conduit Flow Process (CFP) Package support | | X | X | X |
| Seawater Interface (SWI) Package support | | X | X | X |
| MODFLOW-SURFACT TMP1 Package* | | X | X | X |
| Import of MODFLOW-USG models | | | X | X |
| PHREEQC version of MODFLOW-USG for reactive transport modelling | | | X | X |
| AquiferWin32 Version 6 licence | | | X | X |
| GW3D viewer | | | X | X |
| Support for MODHMS* | | | X | X |
| SAMG Solver (MODFLOW2005 & MODFLOW-USG) | | | | X |

*Standard version limited to 1 million cells and 250 stress periods

** requires purchase of add-on licence

Pricing

- New V8 Standard Licence £1,365
- New V8 Advanced Licence £1,835
- New V8 Professional Licence £2,845
- New V8 Premium Licence £3,820
- New AquiferWin32 V6 Licence £585
- Standard dongle plus delivery £50
- Network dongle plus delivery* £100

Upgrades

- V6 Standard to V8 Standard £1,090
- V6 Advanced to V8 Advanced £1,445
- V6 Professional to V8 Professional £1,870
- V6 Premium to V8 Premium £3,040
- V7 Standard to V8 Standard £430
- V7 Advanced to V8 Advanced £585
- V7 Professional to V8 Professional** £740
- V7 Premium to V8 Premium** £1,250
- V8 Standard to V8 Advanced Upgrade £470
- V8 Advanced to V8 Professional Upgrade £1,015
- V8 Professional to V8 Premium Upgrade £975
- AquiferWin32 V5 to V6 upgrade £155

**Purchase of minimum of 3 copies required for network dongle. **Algomesh upgrade to V2 is a separate cost (you can still use Algomesh V1 with GV8).*

There are no upgrades from GV5 to GV8. GV6 licences must be upgraded by 28 February 2021; after this date, new licences must be purchased. There are no upgrades from AquiferWin32 V3 or V4.

GV7 new licences purchased since 1 March 2020 will receive a free upgrade to GV8 (note this does not include GV7 upgrades, only new licences).

Information

Basic technical support is available for GV7 and GV8. An extended technical support package is available, price upon request.

Technical support for GV6 ends with the release of GV8. We will continue to answer queries, however, responses will be delayed as we give priority to GV7/GV8.

Licensed by default with a HASP key (USB dongle) which attaches to a USB port. This allows you to move GV to any computer. If you already have GV6/7 a HASP key update can be provided by email (you do not need a new dongle).

Please note a single user HASP dongle cannot be accessed via Windows Remote Desktop

Connection unless the Remote Desktop option is added (Adv/Pro/Premium only, price available on request). Alternatively, a network dongle is required (for which a minimum of 3 copies of the software must be purchased).

For more information contact:



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Connect with us



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