

What's new in GMS 10.0

The following is a list of the more significant changes in GMS 10.0.

1. MODFLOW-USG

2. Unstructured Grid module

- Horizons -> UGrid
- Map -> UGrid

3. Improved MODFLOW native text output

4. Improved Model Checker results with color

5. Selection Echo window

6. Overhauled and improved Plot Axes

7. New tutorials

- MODFLOW-USG: Complex Stratigraphy
- MODFLOW-USG: Converting From MODFLOW 2005
- MODFLOW-USG: Quadtree
- MODFLOW-USG: Regional to Local
- UGrid Creation
- MODFLOW-LGR: Regional to Local
- MODFLOW-Save Native Text

8. Miscellaneous

- TINs can now be used for SFR2 elevations in a coverage
- Units in areal packages dialog
- Improved export of 3D grid shapefiles
- Export faces to CAD files
- Added rasters as an alternative to TINs for getting elevations of drains and other BCs in the map module.
- Added button to the MODFLOW Source Sink packages (DRN, WEL, GHB...) to bring up a spreadsheet to edit Use previous for all stress periods.
- Added button to the MODFLOW Areal Source Sink packages (RCH, EVT, ETS) to bring up a spreadsheet to edit Use previous and multiplier of active array for all stress periods.
- Added button to the MODFLOW Array Editor dialog (HK, SS, SY...) to bring up a spreadsheet to edit multiplier for all layers in the

- grid.
- HFB default line thickness now 3 and color is orange
- moles/liter units added (for PHT3D)
- Solids root item in Project Explorer includes Projection menu
- Select By Dataset Value command
- "Check All" added in Project Explorer
- Display projection text moved from bottom right of Graphics Window to bottom right in status bar of main window.
- Module toolbar default location changed to top of GMS window.
- Some icons changed to be consistent with SMS, WMS.
- Pin/unpin Project Explorer

9. More shortcut keys added

- F2 edits labels in the Project Explorer
- Ctrl+U unselects all
- Ctrl+O opens a file
- Ctrl+H hides the selected objects
- Ctrl+W shows the hidden objects

The following is a list of the more significant changes that were introduced in GMS 9.2.

1. MODFLOW-LGR Support

2. MT3D improvements

- MT3D menus and dialogs renamed to reflect MT3D, RT3D, SEAM3D or PHT3D
- MT3D starting concentrations much easier to enter in new spreadsheet in Basic Package dialog

3. FEFLOW support for import/export of 2D & 3D finite element meshes

4. MODFLOW improvements

- Streamflow Out data shown in a table via command on CCF file
- Starting heads can be set to always match the grid top elevations for convenience
- ISTCB1 option added in both MODFLOW STR and SFR2 packages
- Partial support for MODFLOW-USG on structured 3D grids. You cannot create any sort of unstructured grid yet (nested grids, quad-tree, voronoi etc) but you can run MODFLOW-USG on a regular, structured grid. Unstructured grid creation is coming soon.

5. Projection improvements

- Display projection can define units even if there is no projection defined

- New objects are assigned the display projection if one exists
- Vertical projection saved to .prj files and restored

6. Miscellaneous

- Update to PEST 12.3
- "Don't Register" button on Welcome dialog
- Ability to add points to a TIN without wiping out all data sets
- Properties for the Project item in the Project Explorer
- 3D grid cell selection: can now select range of cells by holding the shift key
- Changing scatter point activity now asks what to do with transient data sets
- Wider database fields allowed when exporting shapefiles
- Nodes no longer displayed at 2D mesh quad element centroids
- DGN (Microstation) CAD file import (via convert to temp DWG file). Results vary.
 - Pathlines can be exported even if there are no capture zones defined
- Bitmaps in right-click menus