

# **MMA - Multi-Model Analysis Program**

## ***MODFLOW AND MORE 2017 Demo***

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Link to download MMA: <http://igwmc.mines.edu/freeware/mma/>

Link to MMA demo files: [http://igwmc.mines.edu/freeware/mma/MMA\\_Demo\\_MFandMore2017.zip](http://igwmc.mines.edu/freeware/mma/MMA_Demo_MFandMore2017.zip)

Files and directories included in the MMA demo download folder are listed below.

### **Folder: Example**

Sub-folder: bin – directory with programs MF\_2005dbl.exe, UCODE\_2014.exe, Linear\_Uncertainty.exe and MMA.exe.

Sub-folder: Models – directory with five model sets. Two directories are included in each model folder: Calibrate\_Predict\_LinearUncertainty and MMA\_Files. The first folder includes files and model results for UCODE\_2014 calibration, UCODE\_2014 prediction, and Linear\_Uncertainty (predictions, confidence intervals on predictions and standard deviation of predictions). The MMA\_Files directory includes files required for MMA. See the ReadMe\_Models.txt file for details on running UCODE\_2014 in calibration and prediction mode, and Linear\_Uncertainty. Batch files are provided for each model.

Sub-folder: MMA – directory with MMA files (see ReadMe\_MMA.txt in MMA directory)

Additional files under **Example** folder:

MMA\_Demo\_Individ\_Predictions.xlsx – This excel file includes the individual predictions for each MODFLOW model in the model set. See the *ReadMe* worksheet in this file for additional information.

MMA\_Demo\_Results.xlsx – This excel file includes output generated by the MMA program. See the *ReadMe* worksheet in this file for additional information.

### **Folder: MMA\_Demo\_Input\_Files**

Models\_Clean – directory with five models with UCODE\_2014 input files and MODFLOW\_2005 input files required for UCODE\_2014 and Linear\_Uncertainty

MMA\_Clean – directory with input file for MMA and a batch file to run MMA

### **Folder: MMA\_Demo\_Additional**

MMA\_Demo\_Poster\_MFandMore2017.pdf – Poster of the MMA process

MMA\_Handout\_MFandMore2017.pdf – Handout provided at Demo