

Grid & Solid Math

1/24/21

01/24/21/JPR – **New Feature:** A new program titled “*Grid Math*” has been added to the *ModOps / Grid / Math* sub-menu (Figure 1).

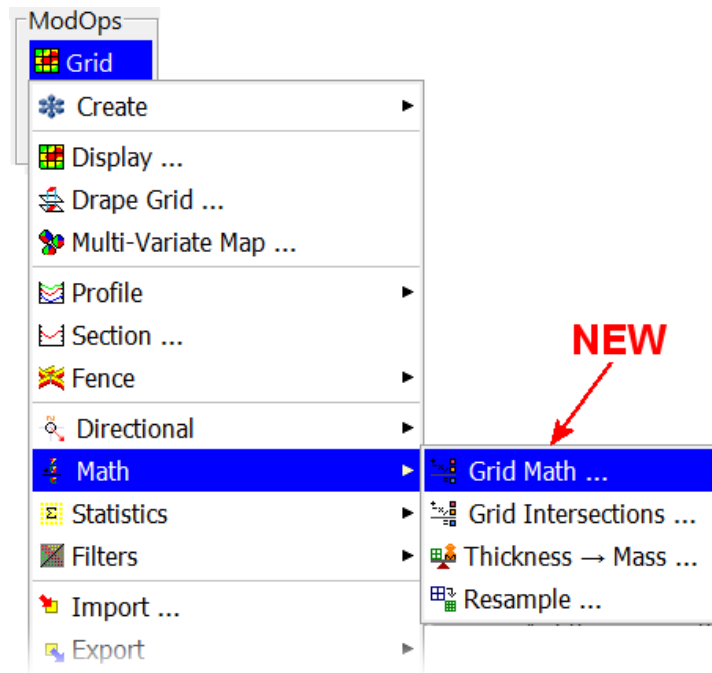


Figure 1. Location of New Grid Math Program Within ModOps / Grid / Math Sub-Menu

This program replaces the *Grid & Constant*, *Grid & Grid*, *Add Multiple Grids*, *Multiply Multiple Grids*, *Absolute Grid*, and *Grid Sieve* programs which have been moved to the new *Utilities / Misc. / Obsolete Programs* sub-menu (Figure 2). These programs have been retained in order to guarantee backwards-compatibility with older versions of RockWorks Playlists.

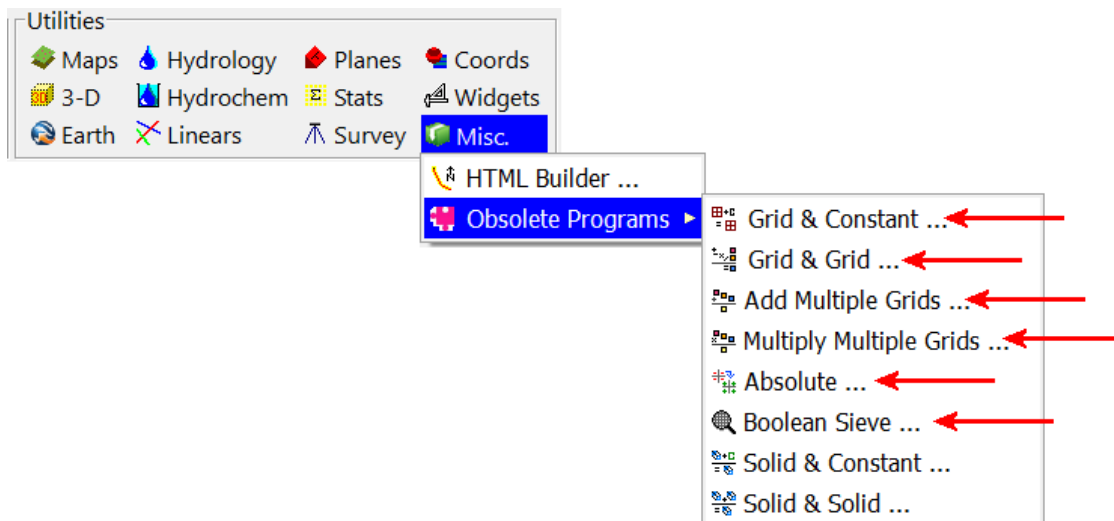


Figure 2. Grid Math Programs Moved to Utilities / Misc. / Obsolete Sub-Menu.

The new *Grid Math* program (Figure 3) provides a tool for performing multiple operations with grids and constants within a single menu.

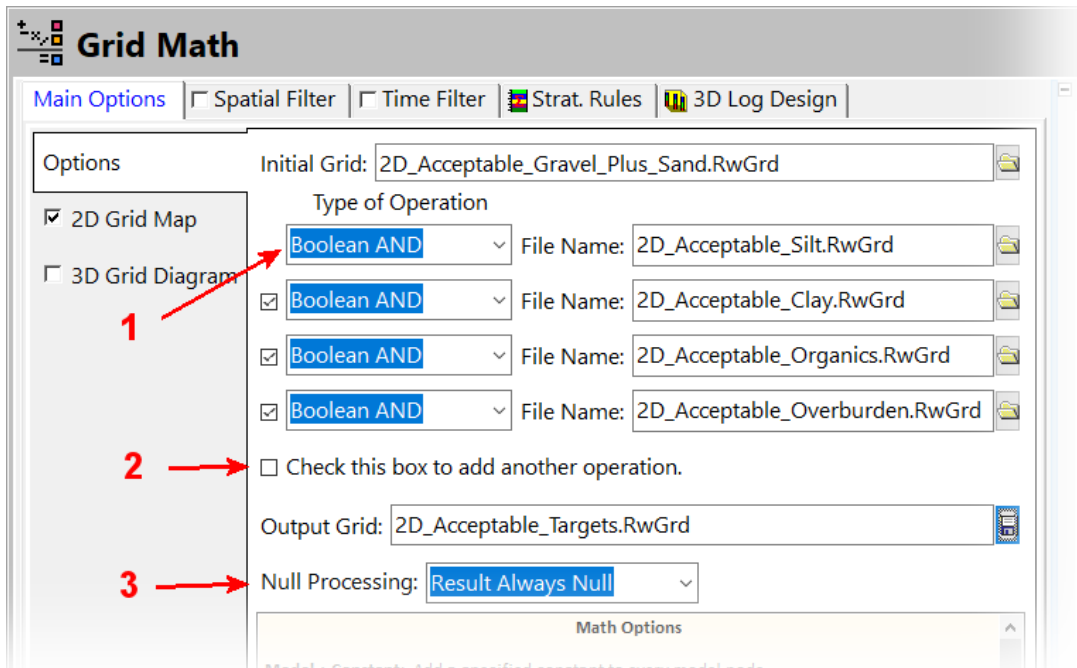


Figure 3. New Grid Math Program Menu

Notable items include;

- (1) The Type of Operation drop-down menu (Figure 4) includes options for model & model, model & constant, model averaging, model differencing, highest-value computations, lowest-value computations, and Boolean logic.

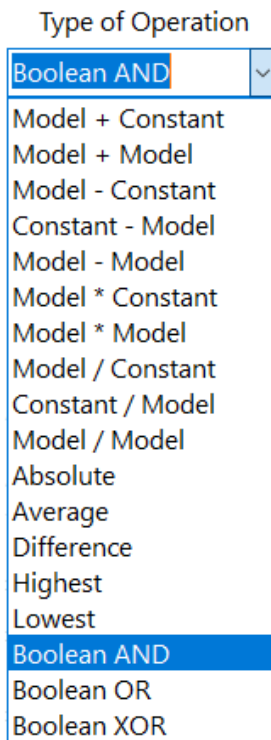


Figure 4. Operation Types

- (2) The menu options expand to allow up to 10 operations in which each operation acts upon the results from the previous operation. For example, the steps shown within Figure 5 will add the Mercury and the Lead grids. The result will then be added to the Mg grid. The results of this operation will be added to the Gold grid. Finally, these results will be divided by 3.

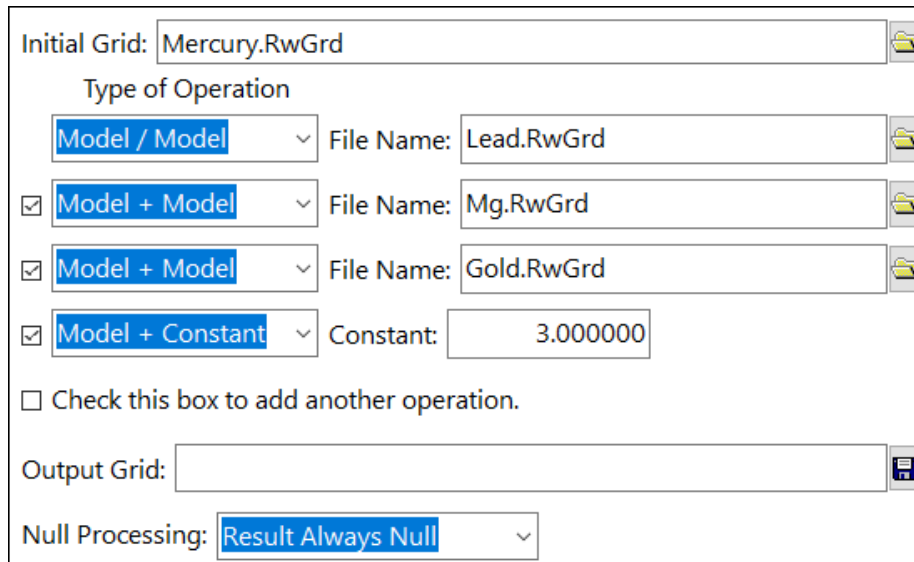


Figure 5. Multiple Steps

- (3) The Null Process options determine how the program will handle null values ($-1.0e^{27}$) within the input and the output grids (Figure 6)

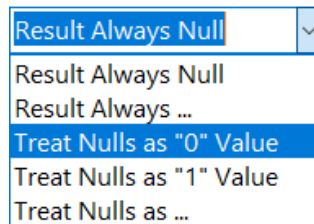


Figure 6. Null Processing Options

01/24/21/JPR – **New Feature:** A new program titled “Solid Math” has been added to the *ModOps / Solid / Math* sub-menu (Figure 7).

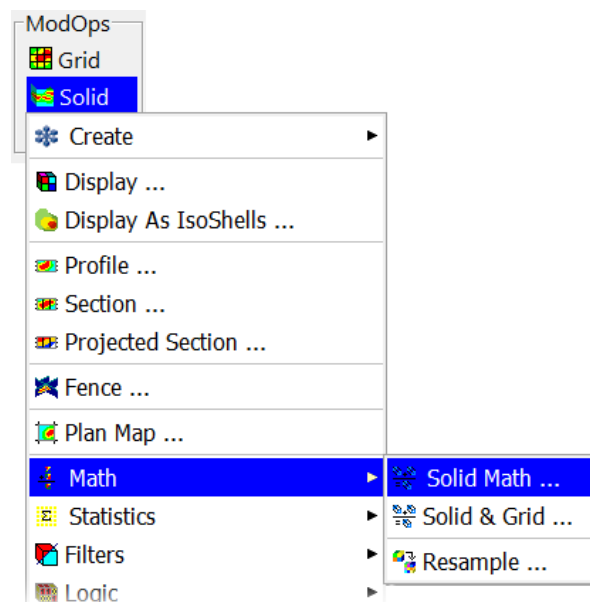


Figure 7. Location of New Solid Math Program Within ModOps / Solid / Math Sub-Menu

This program replaces the *Grid & Constant*, *Grid & Grid*, *Add Multiple Grids*, *Multiply Multiple Grids*, *Absolute Grid*, and *Grid Sieve* programs which have been moved to the new *Utilities / Misc. / Obsolete Programs* sub-menu (Figure 8).

These programs have been retained in order to guarantee backwards-compatibility with older versions of RockWorks Playlists.

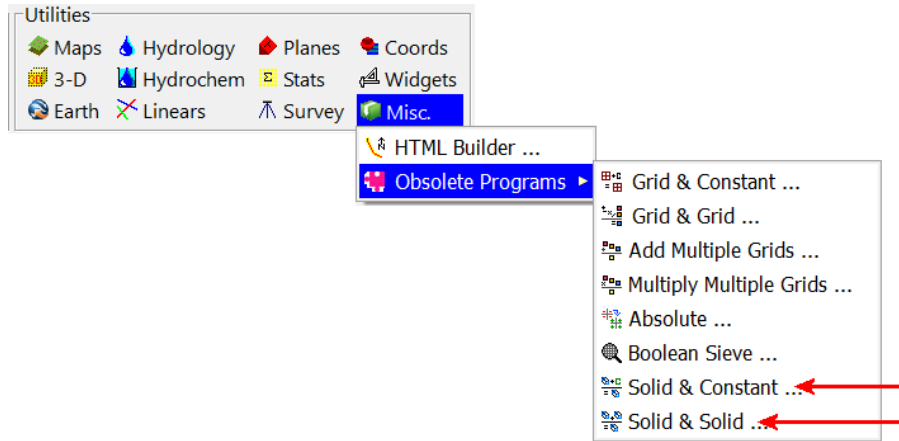


Figure 8. Solid Math Programs Moved to Utilities / Misc. / Obsolete Sub-Menu.

The new *Solid Math* program behaves in a fashion that is identical to the new *Grid Math* program described above.