



New Matrix Options in HYPACK® 2015

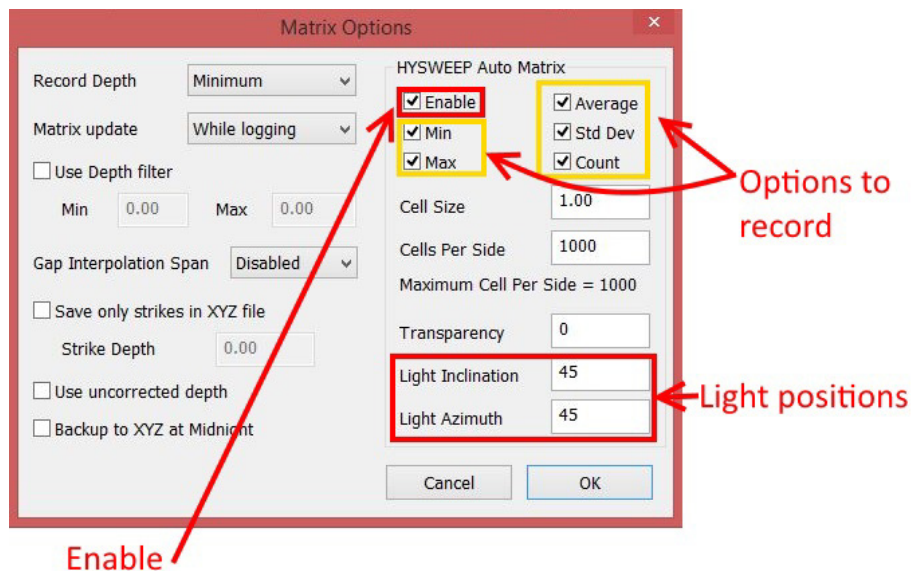
By Bob Glover

With the release of HYPACK® 2015, there will be a few new options for recording matrix files while using the auto-matrix function. There will now be a choice of 5 recording options for each matrix file. You can select between Maximum, Minimum, Average, Standard Deviation and Cell count. HYPACK® 2015 will record this data to the matrix file for display in the area map window as well as export to XYZ.

In the HYPACK® SURVEY menu, select MATRIX>MATRIX OPTIONS.

On the right side of the dialog, select the Enable option in the Auto- matrix area. This will then allow you to select which data will be used to fill the matrix files. HYPACK® 2015 will record your selections to individual matrix files; it is now possible to record up to 5 matrix selections.

FIGURE 1. *Configuring Matrix Options in HYPACK® SURVEY*



You can also position a virtual light over your Survey display (Light Inclination and Light Azimuth) to better view the matrix data in the map window of SURVEY, while it is being collected.

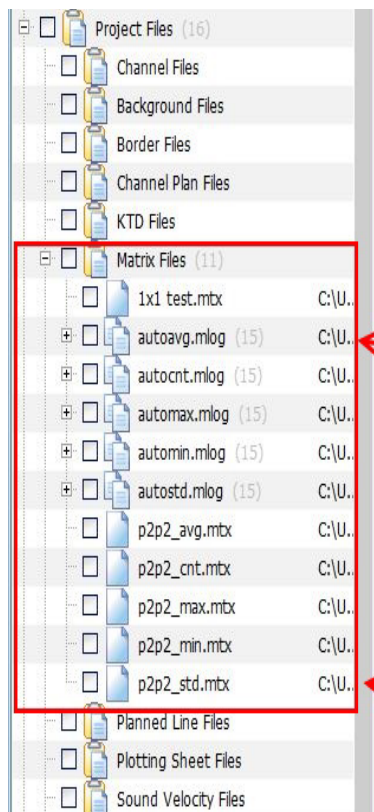


FIGURE 2. Project Items List—Matrix Folder

Figure 2 is the Project Items list, with the matrix files expanded. This shows the addition of the Auto-matrix options. The files are appended after the underscore with your auto-matrix selection: avg (average), cnt (count), max (maximum), min (minimum) and std (standard deviation).

The screen captures that follow are the individual matrix files displayed, using each selection. Please note that palette selections were changed for Standard Deviation as well as [Soundings per Cell] Count. Differences between Average, Maximum and Minimum can also be difficult to determine due to the uniform bottom features in this survey area.

New matrix options. These will be saved under matrix files when auto matrix option is used.

FIGURE 3. Average Selection

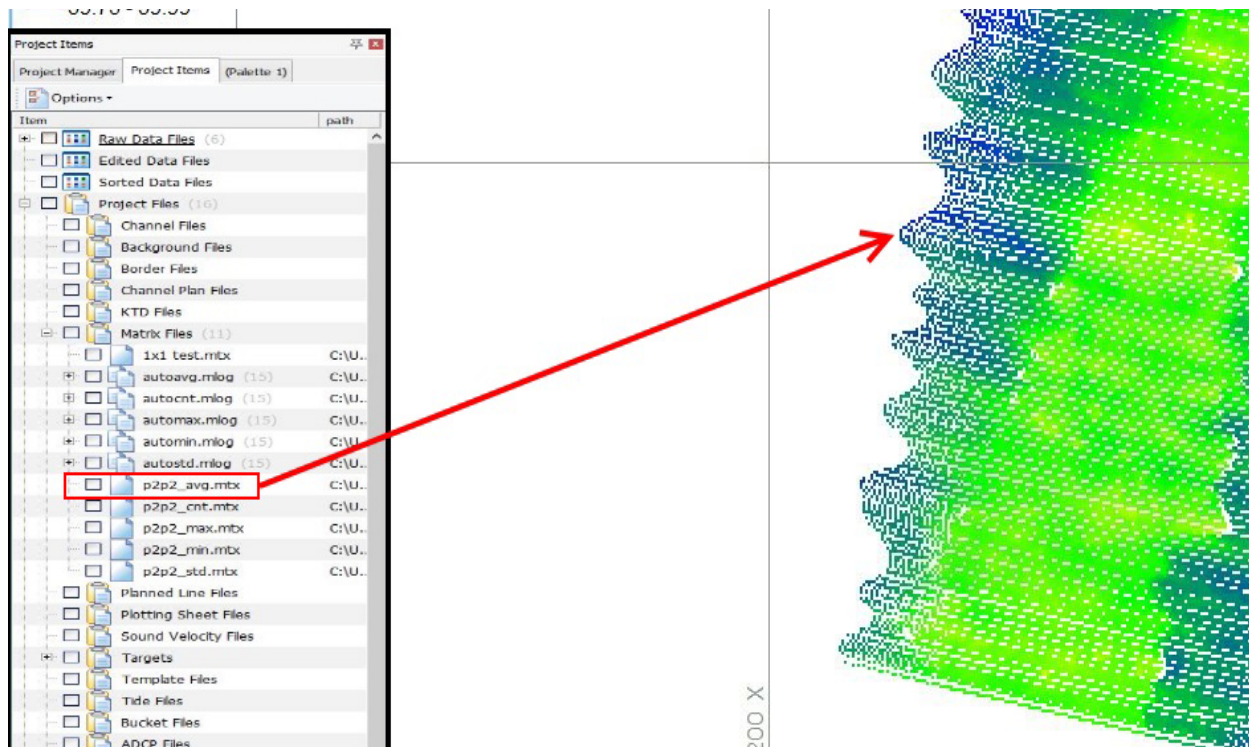


FIGURE 4. Standard Deviation Selection

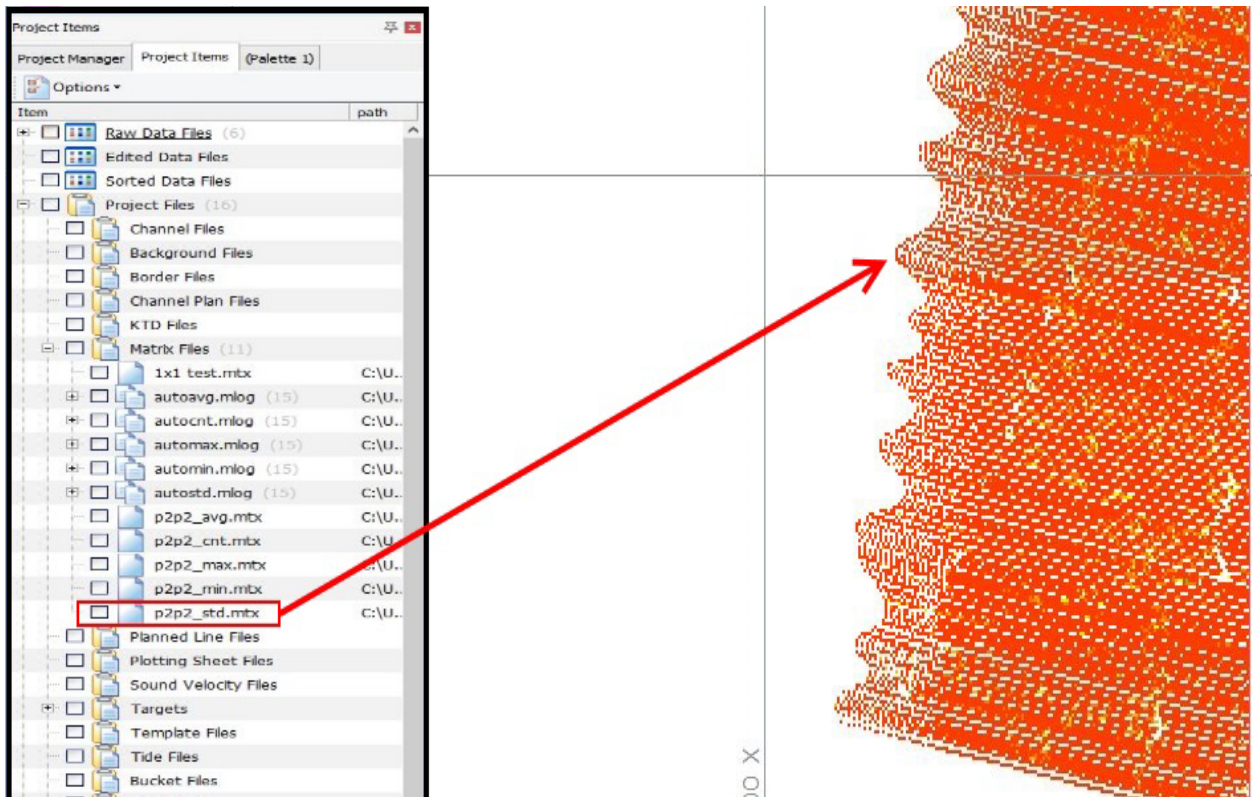


FIGURE 5. Maximum Selection

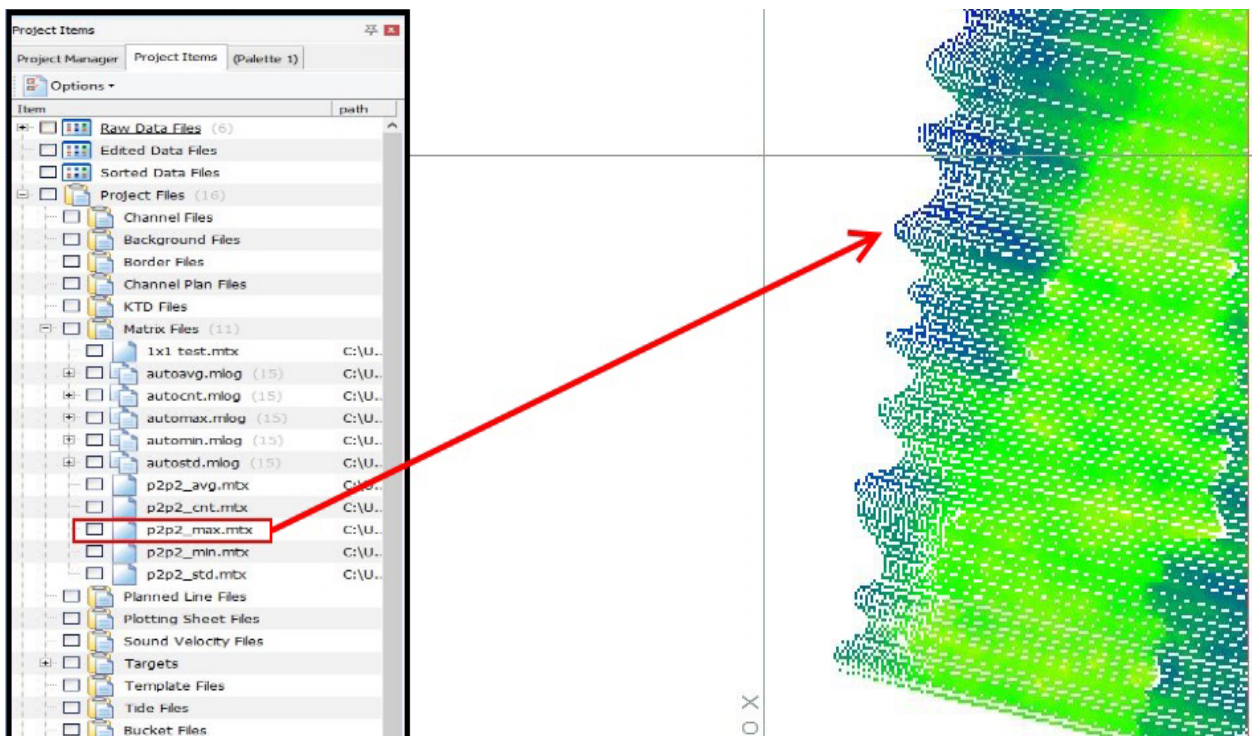


FIGURE 6. Minimum Selection

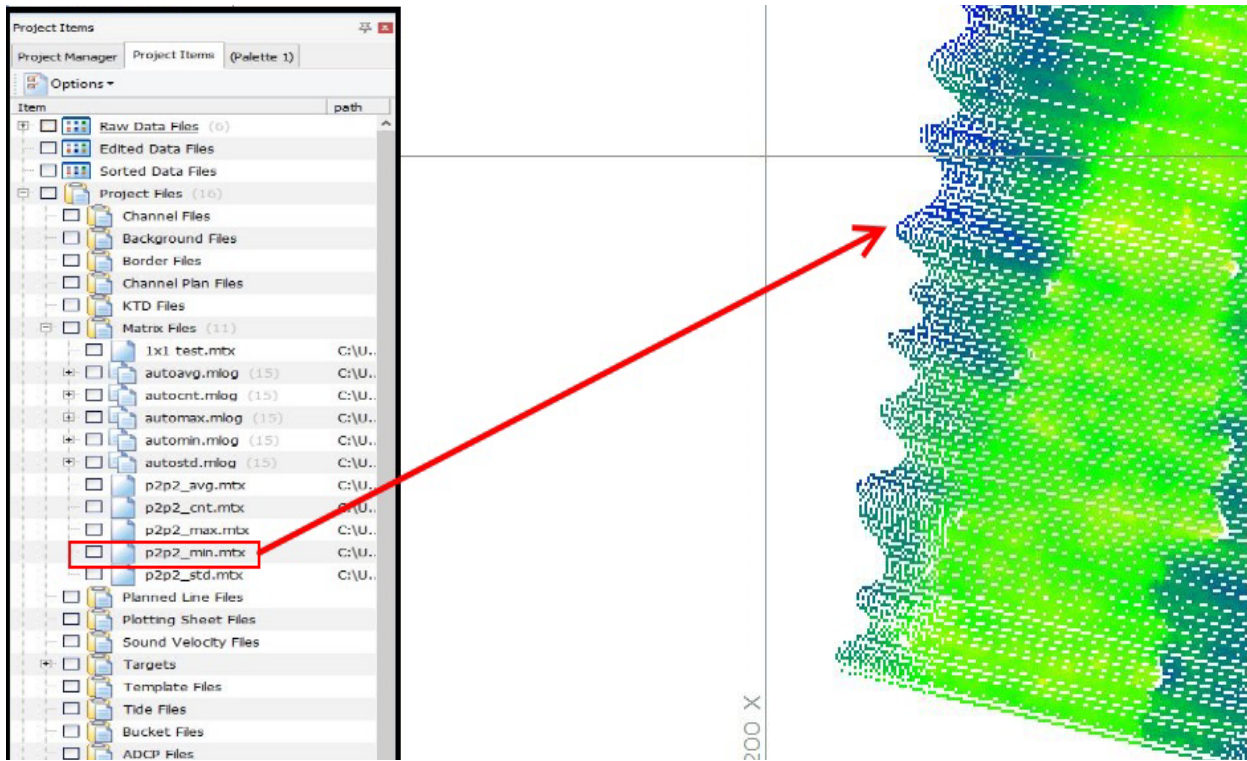


FIGURE 7. Cell Count Selection

