



Using Multiple Matrices

By Monicque Lee

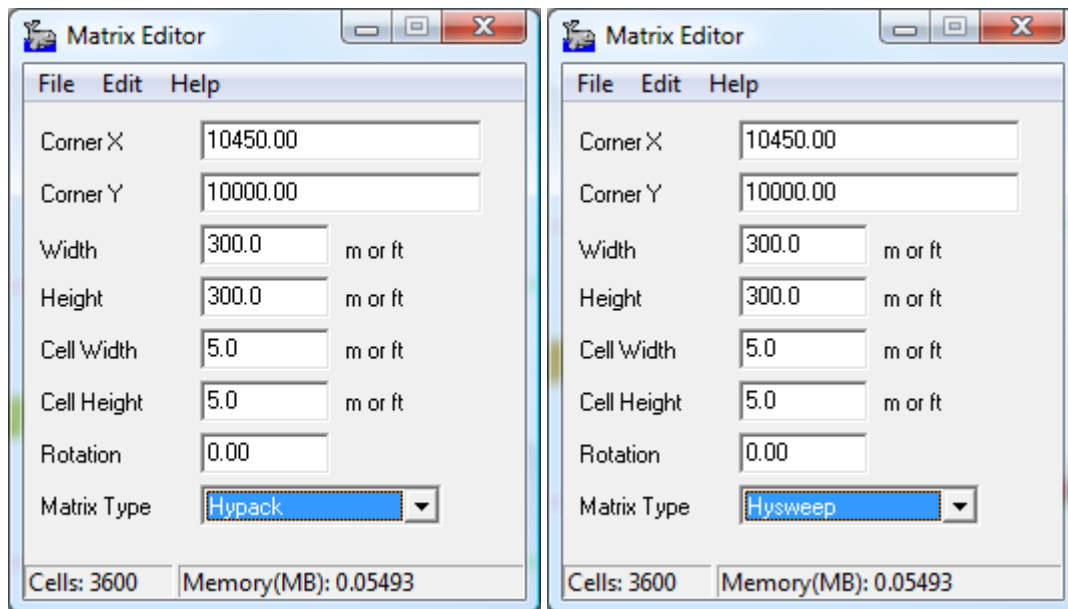
In HYPACK® 2010 you can now use multiple matrices for HYPACK® SURVEY and HYSWEEP® SURVEY. (This feature has been available in past HYPACK® releases for HYPACK® SURVEY only.)

This can be advantageous if you want to break your large matrix area into smaller matrix files. HYPACK® 2010 'automatically' loads your enabled matrix files into HYPACK® SURVEY or HYSWEEP® SURVEY and switches from one to another according to your current vessel position. This makes life a lot easier for folks doing long stretches of rivers, or other large survey areas.

CREATING YOUR MATRIX

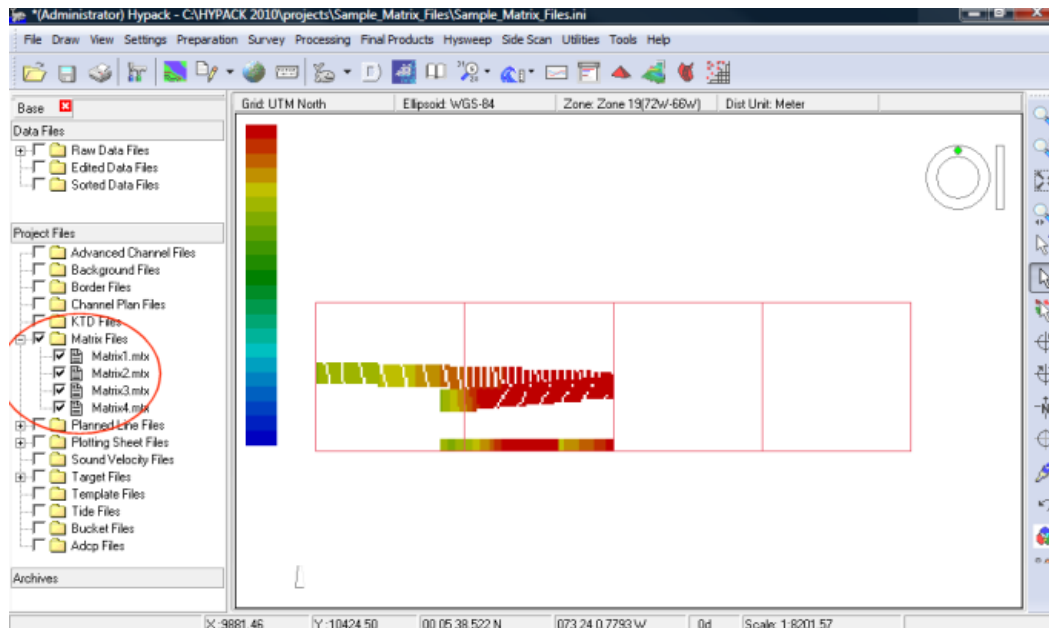
There are no special settings to create multiple matrix files. Simply create your desired matrix files, one at a time and sized for your needs, specifying HYPACK® or HYSWEEP® type depending on the survey.

FIGURE 1. Create your Matrix Specifying Matrix Type to Match your Survey Type.



Once you have created the multiple matrix files that you want to use for your survey, enable them on the main HYPACK® Shell.

FIGURE 2. Shows all Matrix files 'Enabled' in the main HYPACK® Shell.

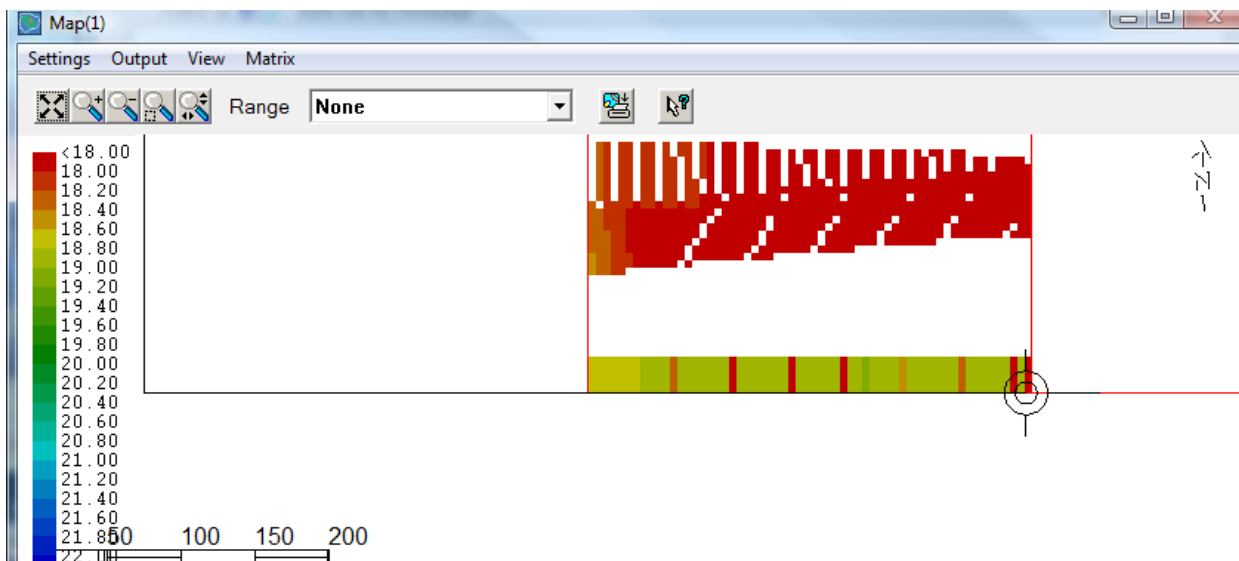


Matrix files enabled in the Main HYPACK® shell are automatically loaded into the survey programs and available in either HYPACK® SURVEY or HYPACK® SURVEY.

HYPACK® SURVEY OR HYSWEEP® SURVEY

When you open HYPACK® SURVEY or HYSWEEP® SURVEY, you will see your matrix files displayed (by default) with black borders. As you survey, the survey programs automatically activate and deactivate matrix files according to the vessel position, showing the matrix you are in and the matrix you are about to enter with red borders.

FIGURE 3. Vessel Moving Across Active Matrix file, and Moving into the Next Matrix File.

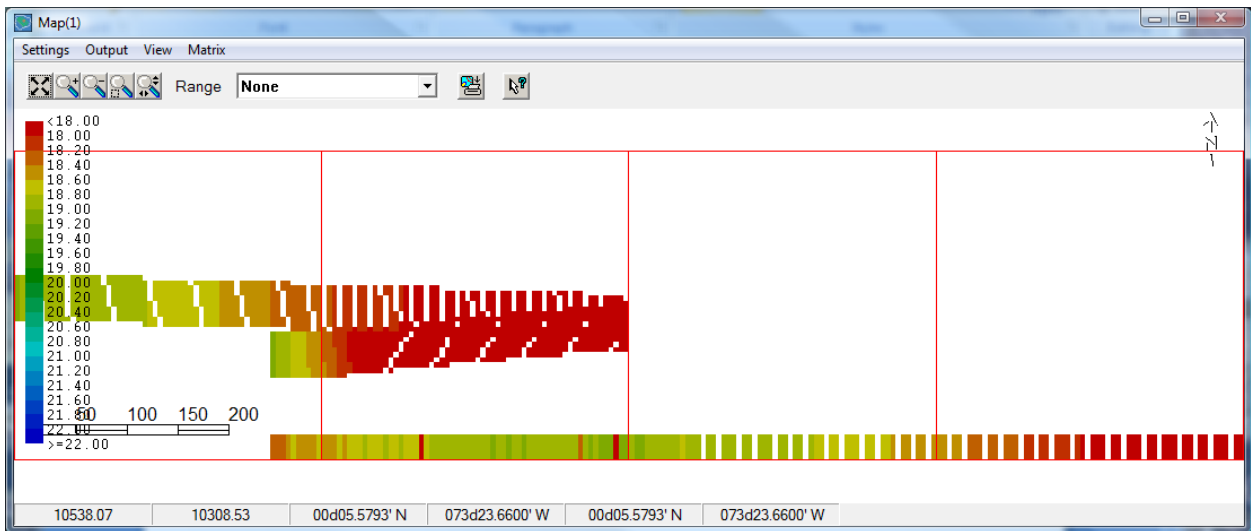


NOTE: This shifting can only occur if you have enabled all of the desired matrix files in the HYPACK® Shell so they can be loaded together into the survey programs.

As you log data, you will only painted cells in active matrix files; inactive matrix files store the data, but it is not visible on-screen. As you go, that painted area will shift with the activation of the matrices.

You can also view all matrix files at the same time, if you go to the Matrix menu in SURVEY and select 'Display all Matrices'. This will allow you to see all the enabled matrix files with data, but this feature is only available while not logging.

FIGURE 4. *Displaying all Matrices and Data in SURVEY*



NOTE: Remember, to see your matrix being painted in HYPACK® SURVEY or HYSWEEP® SURVEY, you also need to have 'use for matrix update' checked in HYPACK® HARDWARE, or in the HYSWEEP® Matrix Options! This tells the survey programs that you want to paint your matrix as you go.

Happy Surveying!!!