

Updates 26_09

The purpose of this update is to clarify some misconceptions that I may have spread and to describe how to import points, grid them and contour them.

Surveys

Surveys are basically a bin-grid definition. For seismic data, the survey defines the mapping between x/y and IL/XL. For other data, the survey is also a bin-grid to use in mapping the points in x/y.

Points

This is a significant enhancement. You can now import all types of data (regional well tops, gravity data, magnetic data, surface elevation, etc). You can't display these points on a map, but you can grid and contour them, then display on a map. Points are stored in x/y/value(time). Early versions of the software stored points from the Crossplot Viewer in IL/XL/time.

You also have the option to use a polygon to limit imported points to an area of interest. Remember to define the polygon before you start the import. Below is a window from the Points Import Wizard that shows the dialog boxes that need to be filled in. Of course, you can also convert the CRS for the imported points to the project CRS, if they are different.

Point coordinates source

Please select the point coordinates source and the related coordinate reference system. Point coordinates will be converted to the project crs.

geodetic coordinates (latitude/longitude)

filter ()

crs: EPSG:3819 HD1909

projected coordinates (X/Y)

filter ()

crs: EPSG:2000 Anguilla 1957 / British West Indies Grid

reject points outside polygon

point inclusion polygon ()

Go Back Cancel Continue

The points gridding is under processes. Below is the dialog box for gridding points. First choose the points you want to grid, and name the output grid. Next you have the option to select an existing survey (checked in this example, since I previously created the survey) or create a new survey. Name the grid to something appropriate and choose the bin size, maximum search distance, and power. The bin size and maximum distance should be chosen based on your data. The default power is a good general selection.

points gridding

points gridding.
The binning grid is defined by the selected survey.

input points

output grid

select an existing survey (bin grid)

reference survey

create a new survey (bin grid)

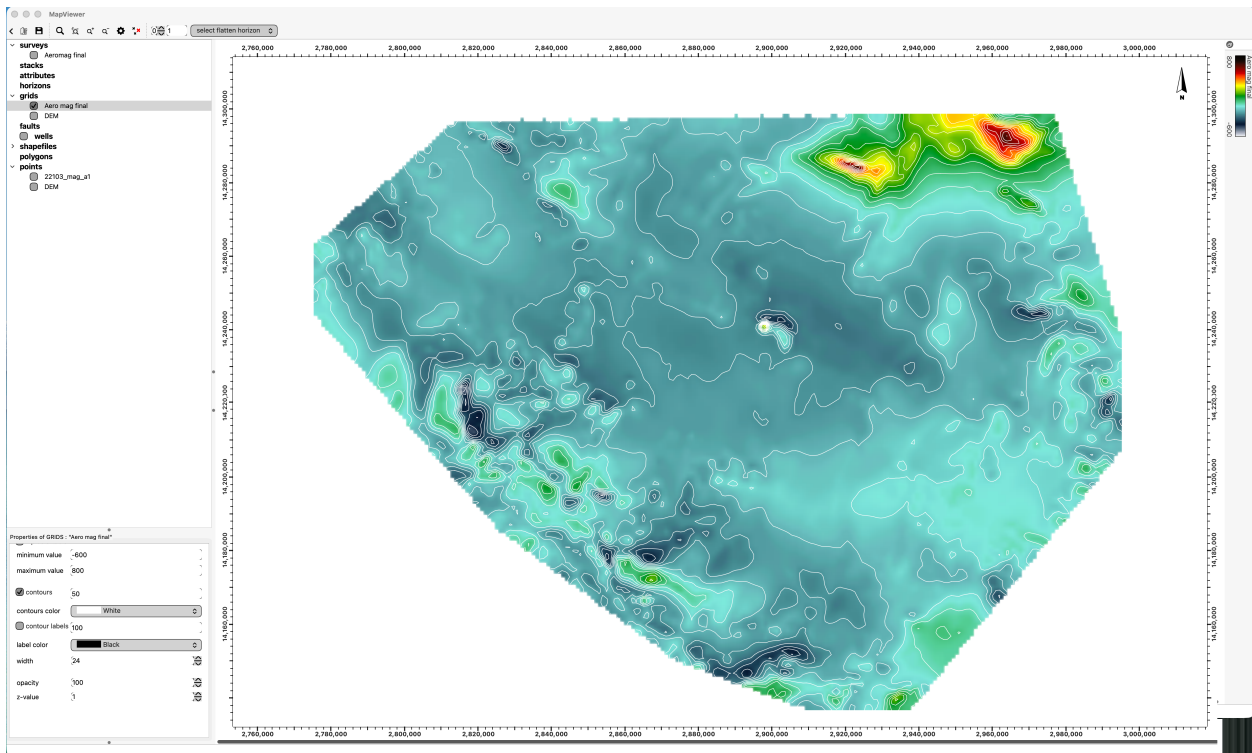
new survey name

bin size

maximum distance

power

An imported aeromag survey with almost 3 million points is shown in the map view below. You can color code the grid points, and display it as a color map. You can also contour the grid.



Importing and gridding 3 million points does take a bit of time so be patient.