

# Quick Start Guide

## For

### MagEditor Data Processing Software

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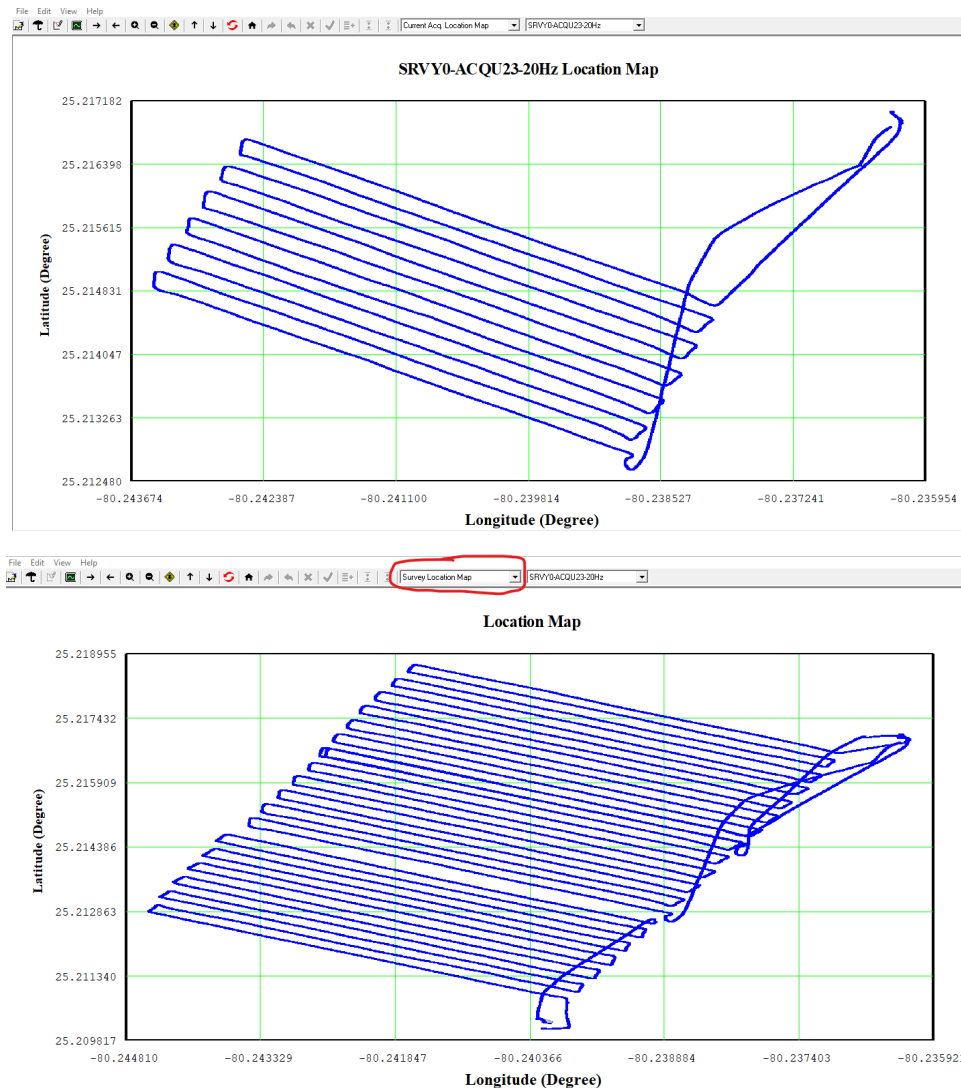
This guide is meant to be a quick reference for starting out with MagEditor. More information can be found on Geometrics Forum website.

## 1.0 Instrument Compatibility

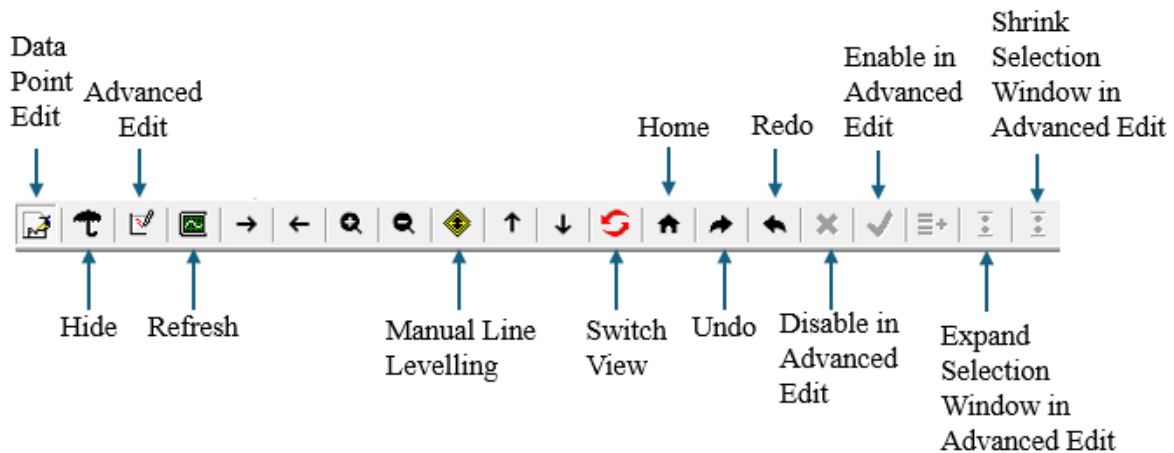
MagEditor supports data files from MagArrow, MagEx, MagStation, and G-862RBS.

## 2.0 Data Input

Click “File” and then “Import csv File”. In the pop-up window, select csv files you want to import. Multiple files can be selected and imported at the same time. If you have base station data, click “Import Base File” to import the base station data as well. Once imported, you should be able to see the routes displayed. If there are more than one acquisition files, choose “Survey Location Map” to display all acquisitions.



### 3.0 Main Icon Introduction



### 4.0 Data Processing

#### 4.1 Low Pass Filter

Click “Edit” and then “Low Pass Filter”. Choose an appropriate cutoff frequency for your data files. Flight speed divided by the height above the ground is a good number. The default value is 0.2 Hz. The low-pass filter can be applied to all acquisitions.

#### 4.2 Base Station Correction

If there is base station data imported, click “Edit” and then “Base Correction”. The correction can be applied to all acquisitions. Corrected data is displayed in the “Time Series Parameters”. Use the “Switch View” icon to switch between the “Time Series Parameters” display and the “Current Acq. Location Map” display.



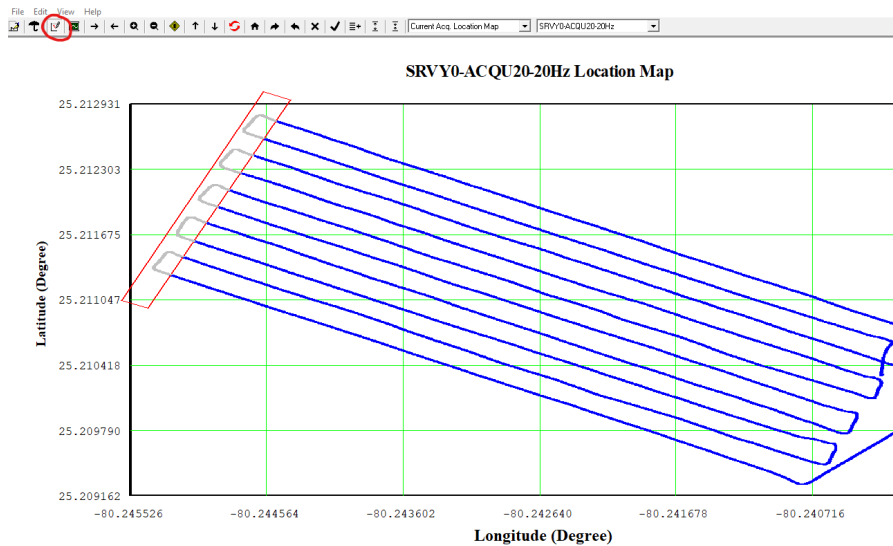
#### 4.3 Data Points Editing

In general, data points during landing or taking-off or turning should be removed. Click the “Data Point Edit” icon as shown below to enable data editing. You can now use left click on your mouse (hold and drag) to select and disable data points (grey out) and right click to select and enable data points. If you don’t want the disabled data points to be displayed, click the “Hide” icon. Click the “Refresh” button to update the view after each editing. Please note that data point editing is only available in “Current Acq. Location Map” or “Time Series Parameters” displays.



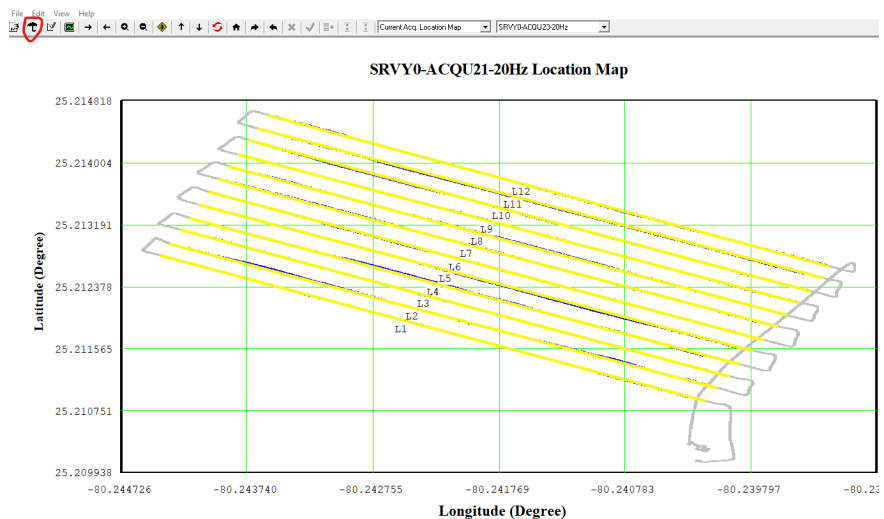
#### 4.4 Advanced Data Point Editing


Sometimes it is much easier to use the “Advanced Edit” function to remove turns, especially when turns are aligned, as shown in the picture below. Click the “Advanced Edit” icon, use the left button of your mouse to draw a line along the turns. You can use the “Expand” or “Shrink” icon to either expand or shrink the width of the selection window. After data point selection, click “Disable” button to disable either all selected data points or only one segment in the pop-up window. One segment disable can be helpful if the landing/taking off routes are in the middle of the survey area. There are many tricks you can use in the “Advanced Edit” mode to make the data editing much more efficient.



#### 4.5 Survey Line Generation

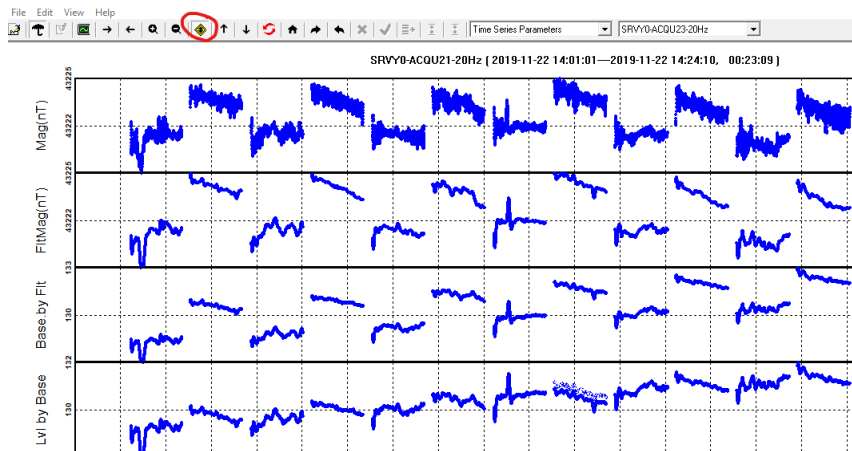
Click “Edit” and then “Auto Line Generation”. In the pop-up window, you may need to change default line generation parameters. To display the survey lines, uncheck the “Hide” button.



You can also manually add survey lines. Choose “Advanced Edit” and use the right click button of your mouse to select segments to add to survey lines.  icon enables you to add only a portion of data to the line.

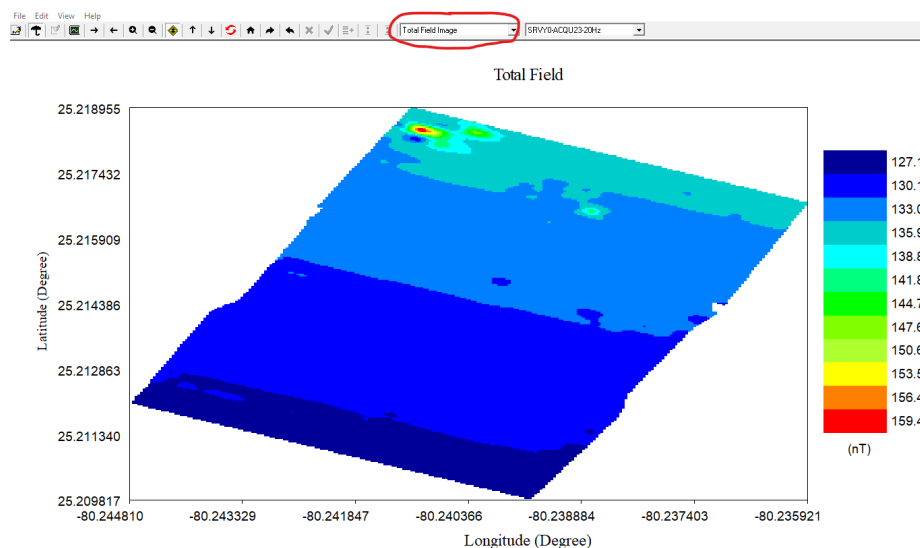
#### 4.6 Survey Line Levelling

Due to heading effects, most surveys require line levelling. Click “Edit” and then “Level Correction”. In the pop-up window, choose “base corrected data” if available. You can check the auto generated correction value in the “Line Definition”. The values can be manually changed in the “Line Definition” pop-up window as well. Another way to manually offset individual lines is to use the “Manual Line Levelling” icon. In the “Time Series Parameters” view, you can use the left click of your mouse to move lines in the “Lvl by ...” panel.



#### 5.0 Data Plot

After data processing, select “Total Field Image” to see the 2D color map. If new data processing steps are taken, you must click “Refresh” to update the 2D plot. Change plot parameters in “View” and “Image Display Setting”.



#### 6.0 Data Export

Click “File” and choose different Data Export options. “XYZ” data includes UTM coordinates.