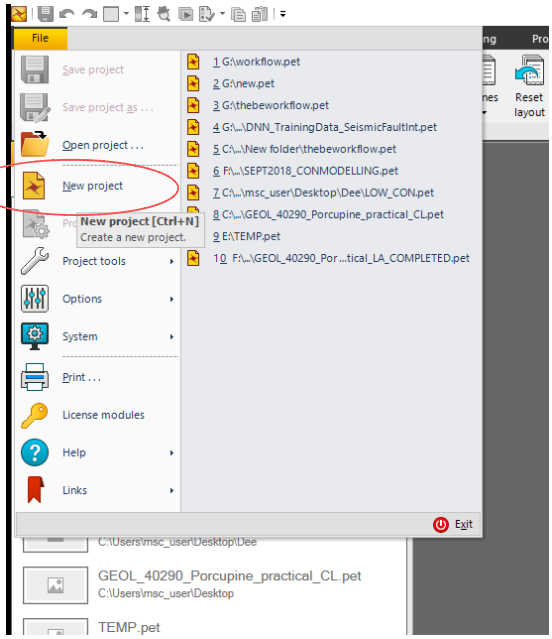
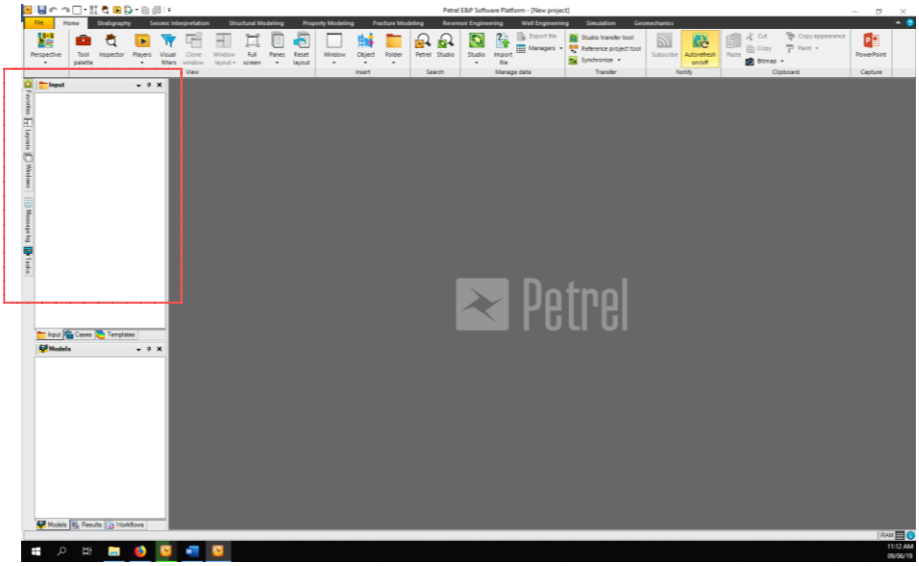
This instruction is based on Petrel 2018

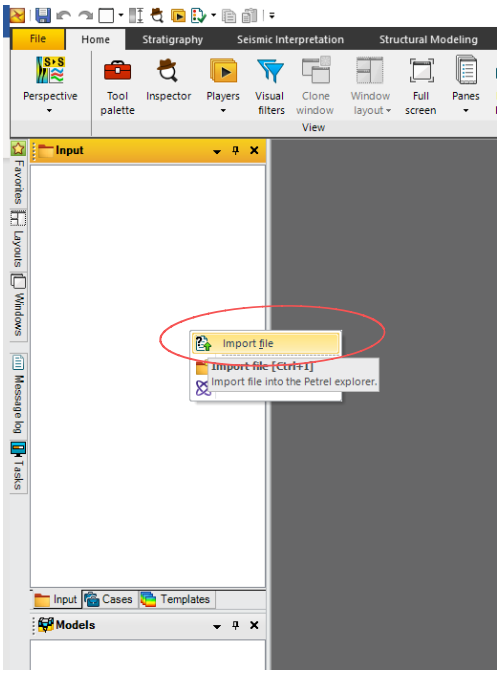
Create new project. Click file -> new project.



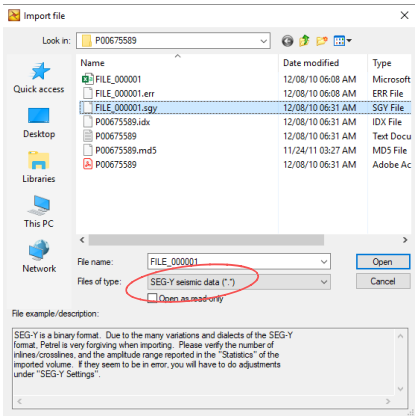
After create a new project, window will look like below



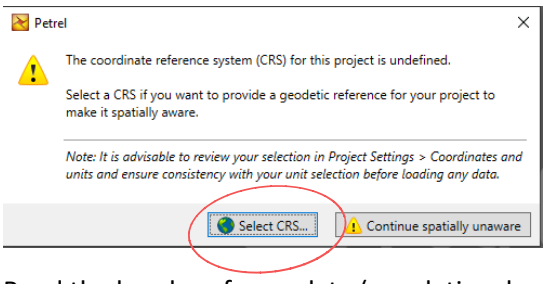
Move mouse into the input window, right click and choose import file.



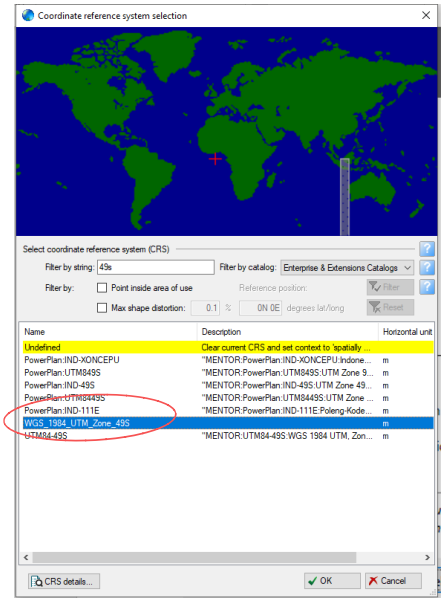
First import the SGY file into the project. Chose SEGY file format.



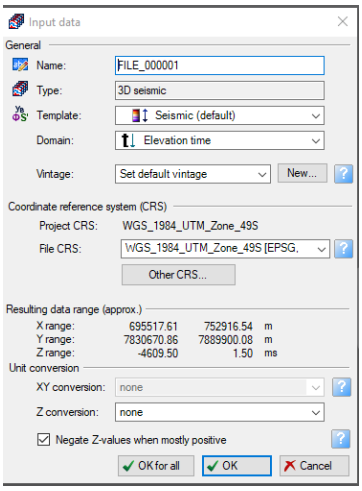
After click open, petrel will pop up an window let you select coordinate reference system for this project.



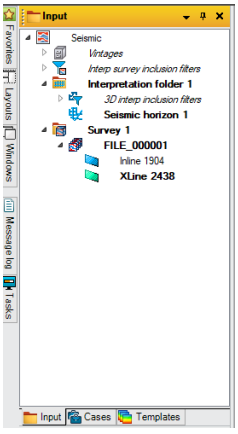
Read the header of your data (or relative documents), which stores the information about the coordinate system. Choose the one used manually in the next pop up window.



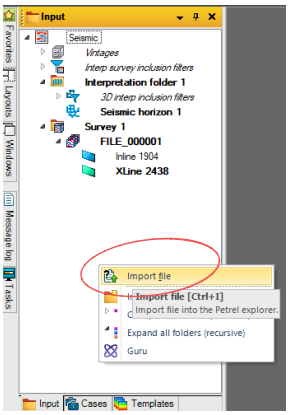
And then apply ok. The following window will pop up for you check. if everything is ok click ok.



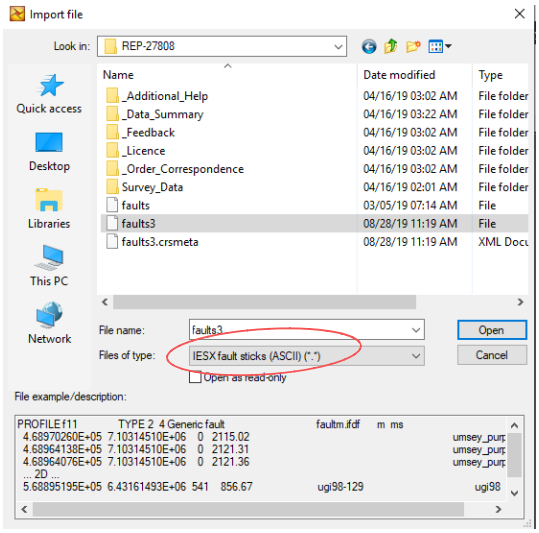
After this, you will see the input window looks like below.

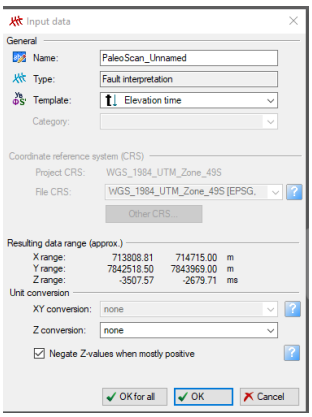


Next import fault label file.



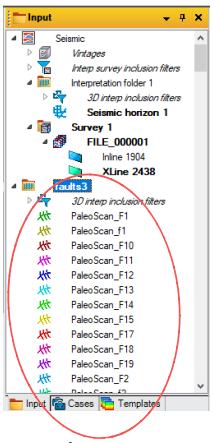
Check with the person who export the fault label file, make sure the import file format is consist with their export file format.





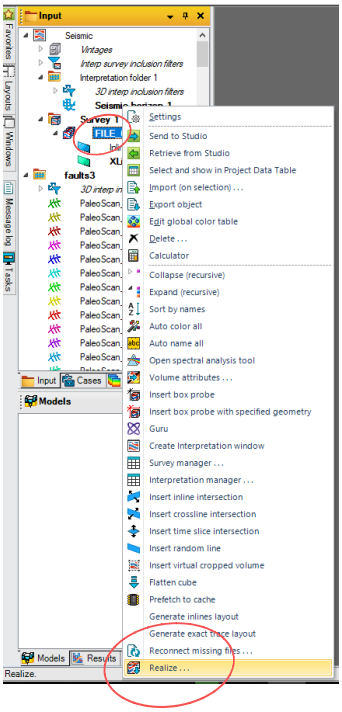
Click ok if above information is fine to you.

And then the input window looks like below.

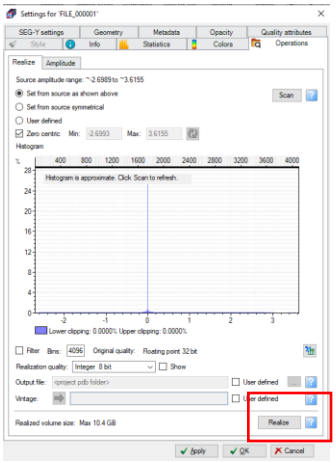


In order to screenshot every inline section, you need to realise the input SGY file.

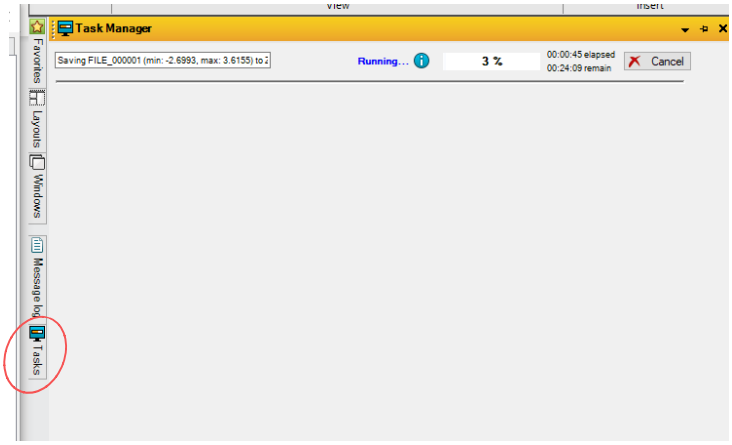
Right click the seismic data and find the last option realise to realise the data.



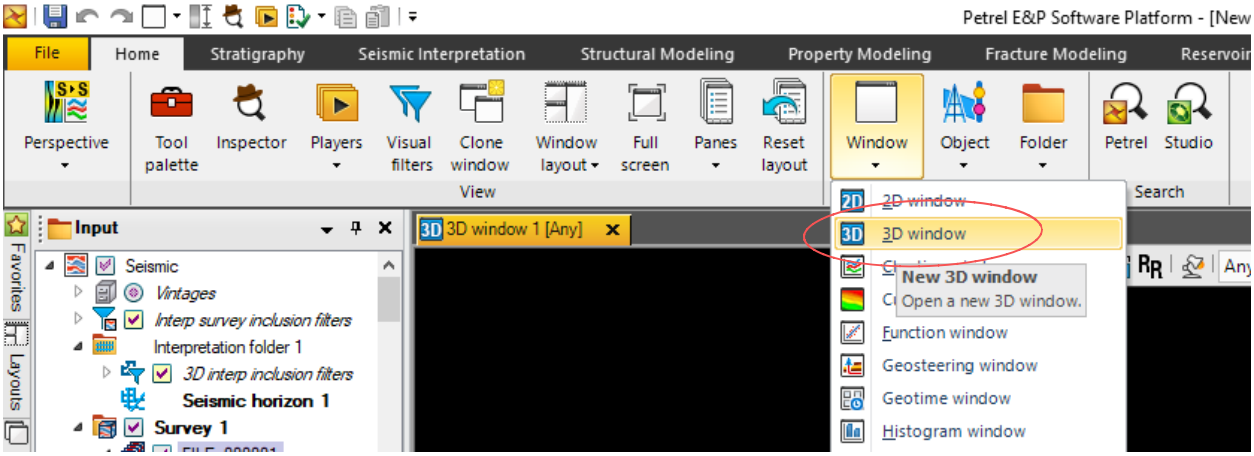
And then the following window will pop up.

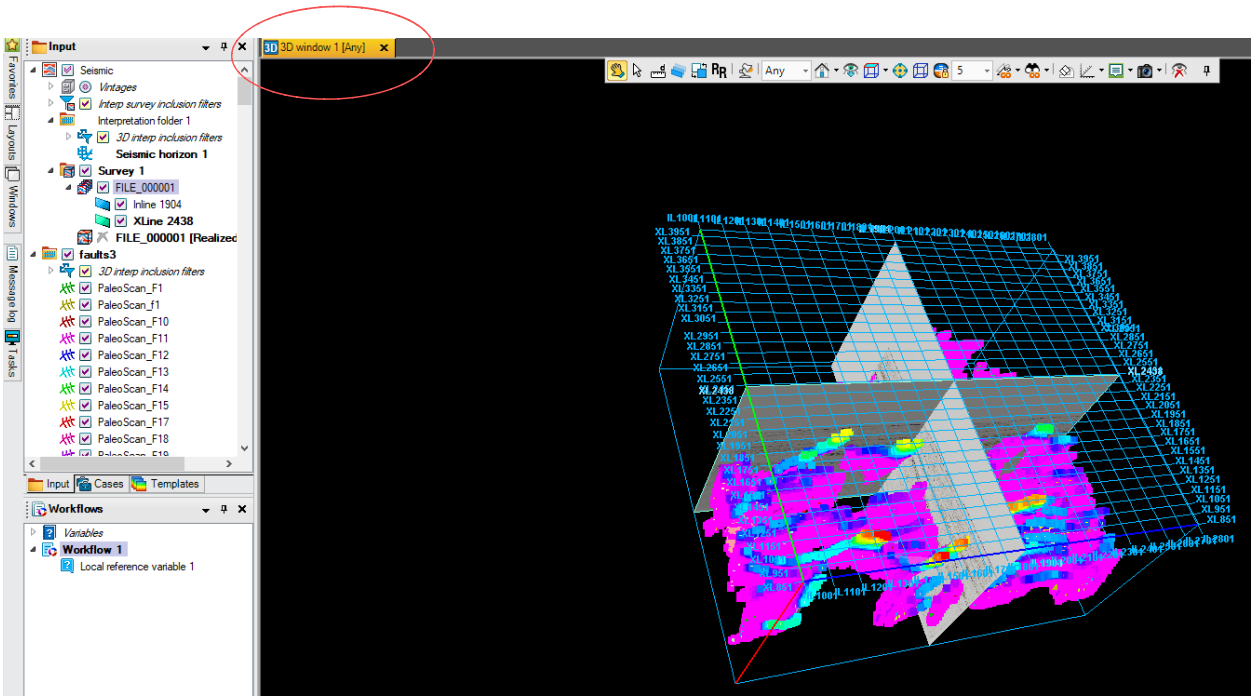


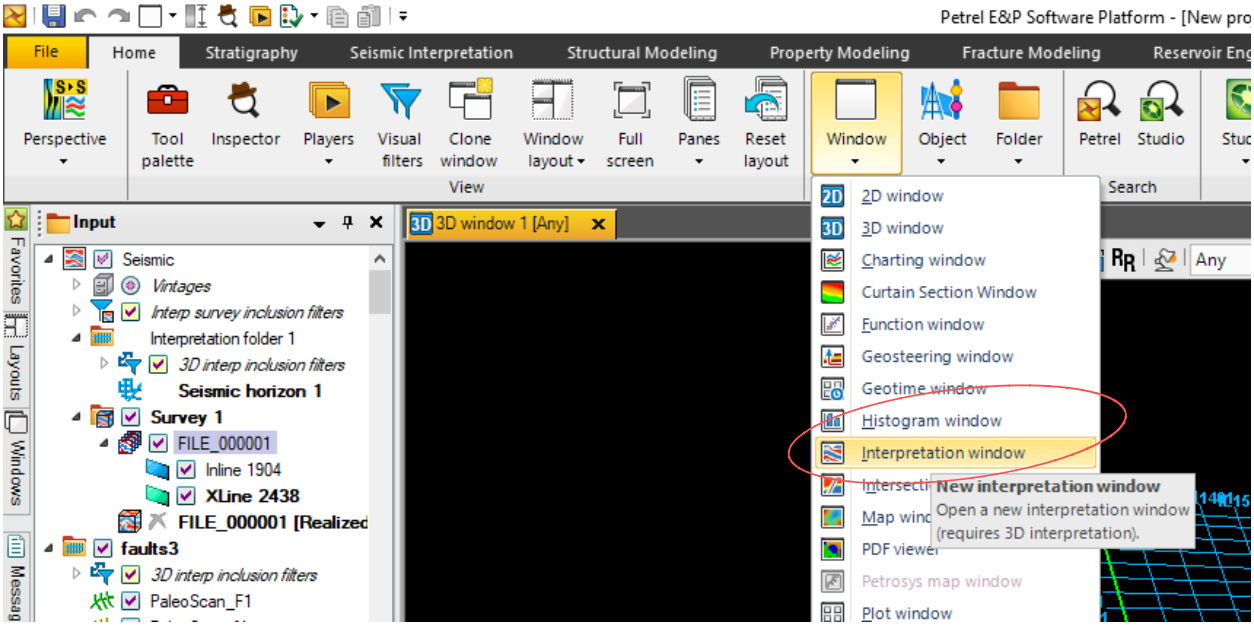
Find the realise button and click. This process will take a while depend on the size of your data. Go to the Tasks sidebar, you will see the process. See how long it will take.



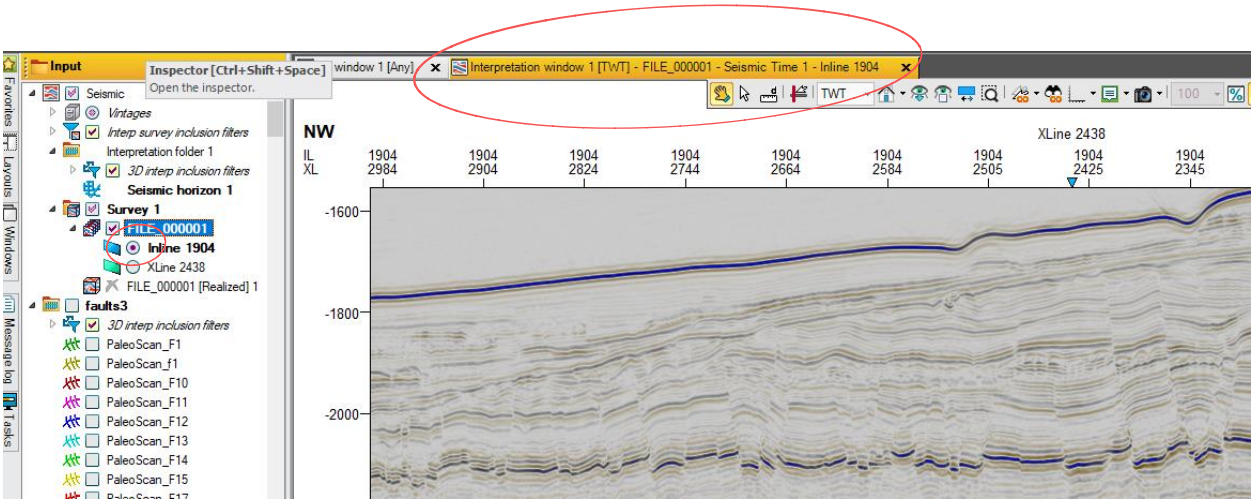
At the same time, you can check the data in 2D interpretation window or 3D window.



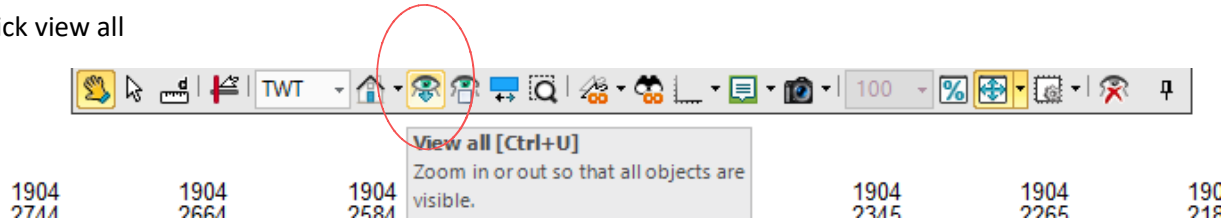




A empty interpretation window will pop up, you can select the inline 1904 to see this inline section.



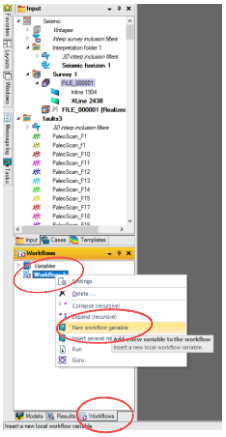
Click view all



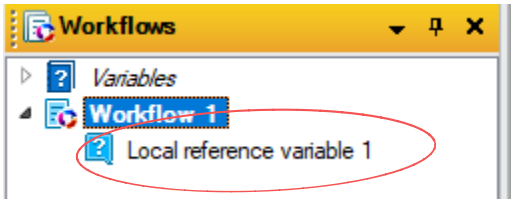
You will see the full inline section.

Next, you can write up your workflow.

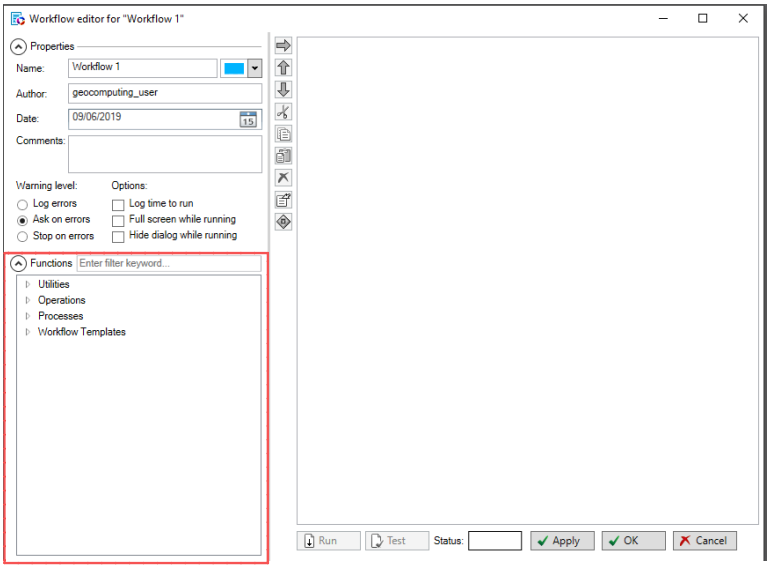
Here, we need a new workflow variable to store the information we want and then screenshot.



After this you will see

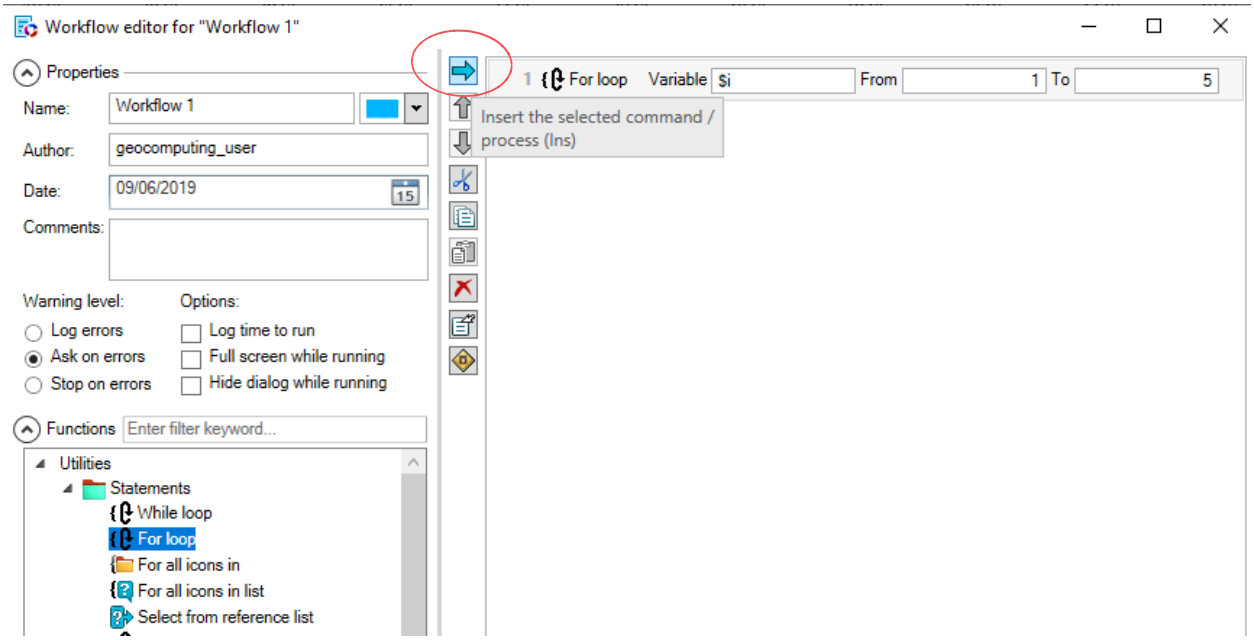


Double click the Workflow 1. Start editing the workflow.



In the left side you will see there are functions. You need to find the function you need and then click to add into the workflow.

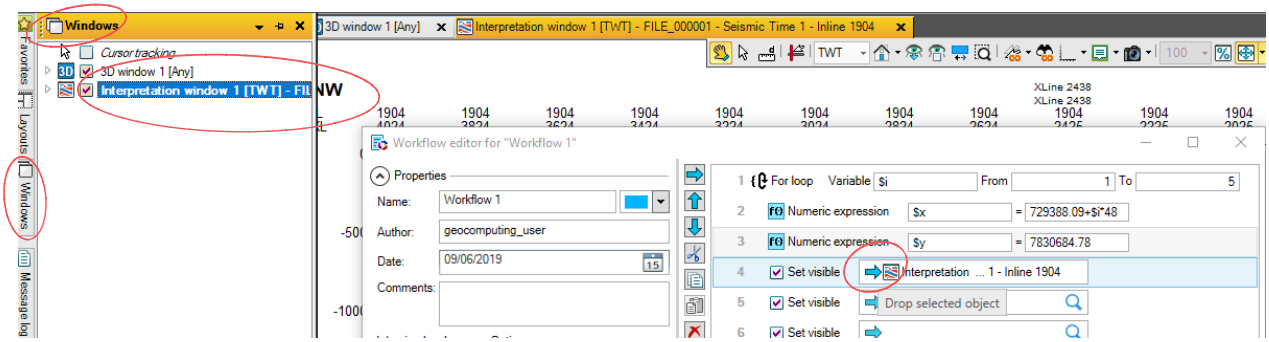
For instance, add a for loop

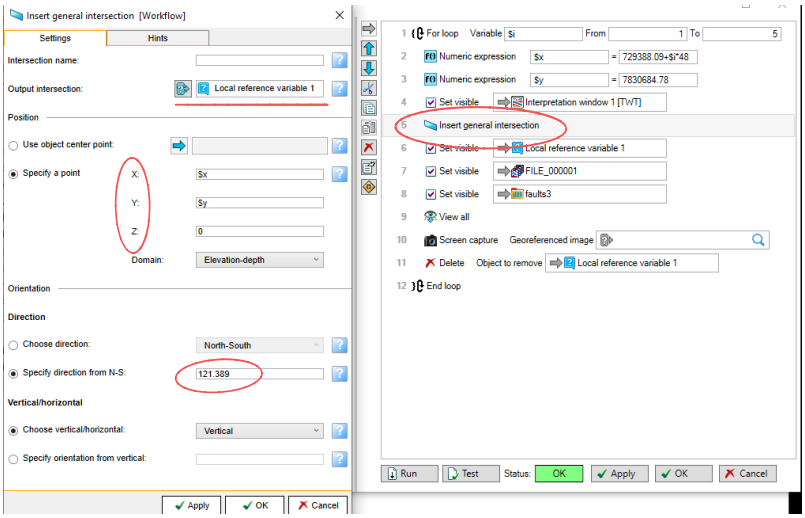


Find for loop and use the blue right arrow let it show on the workflow.

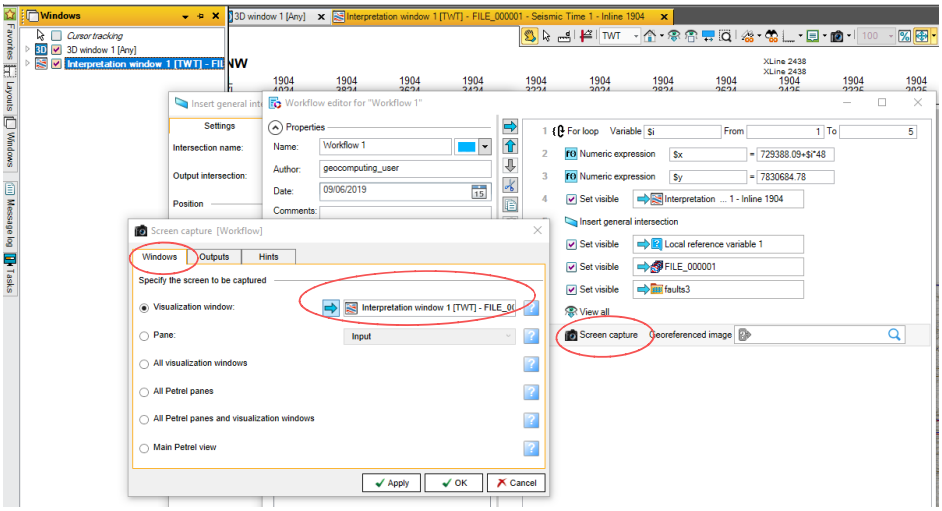
In the same way, complete the workflow of crop inline sections.

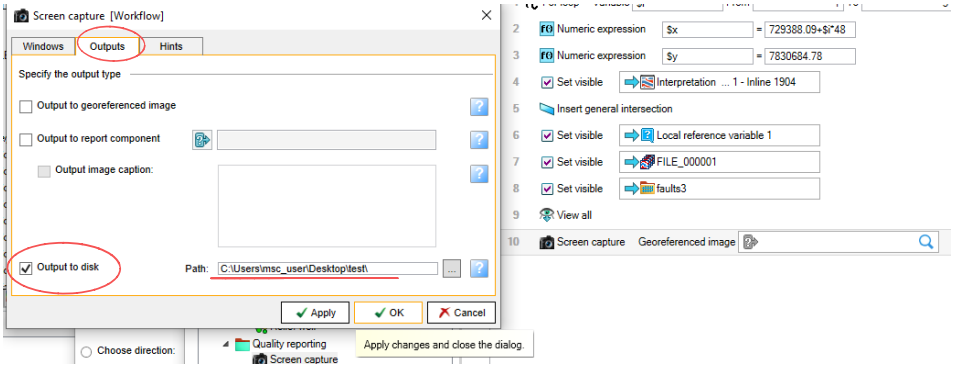
When you want to use some variable, click the variable, and then click the right blue arrow in that function to drop the selected variable.



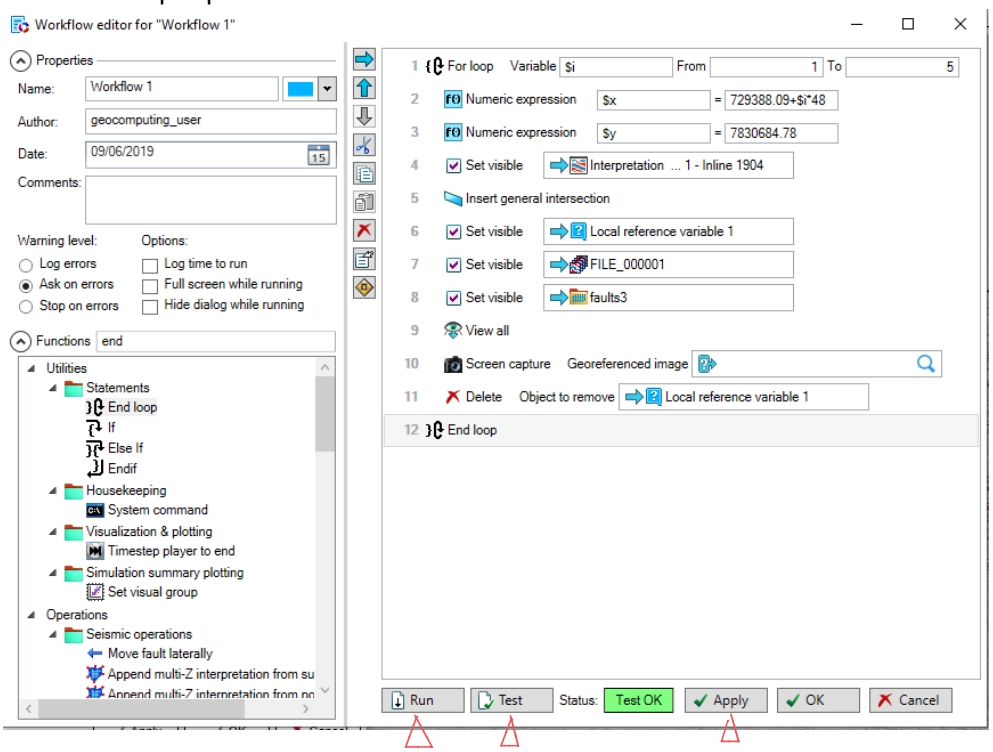


When insert general intersection, you all need to fill in this form. X y is given by the variable x and y. the initial x and y is set to be the first trace's x and y number. X is increased with a step of 48. Those numbers are picked after several tries. They are specific to this dataset. In this way, we can crop every inline section from the seismic cube. We can set to show only seismic information or only show fault labels or both.



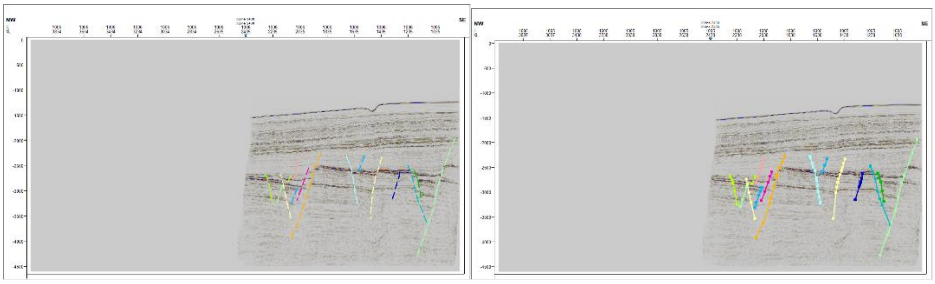


When add the screen capture function, you need to fill in the window to be capture and the path to store the output pics.

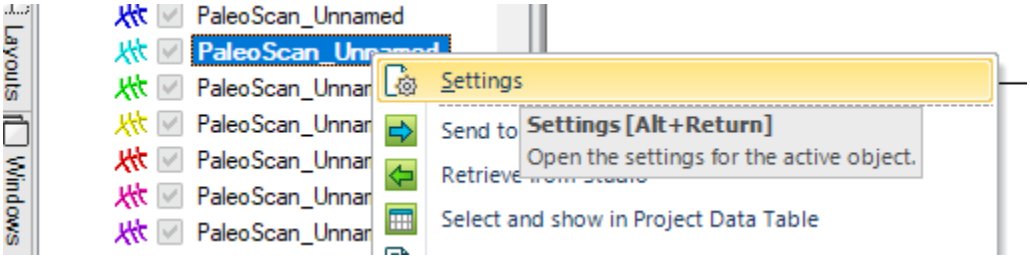


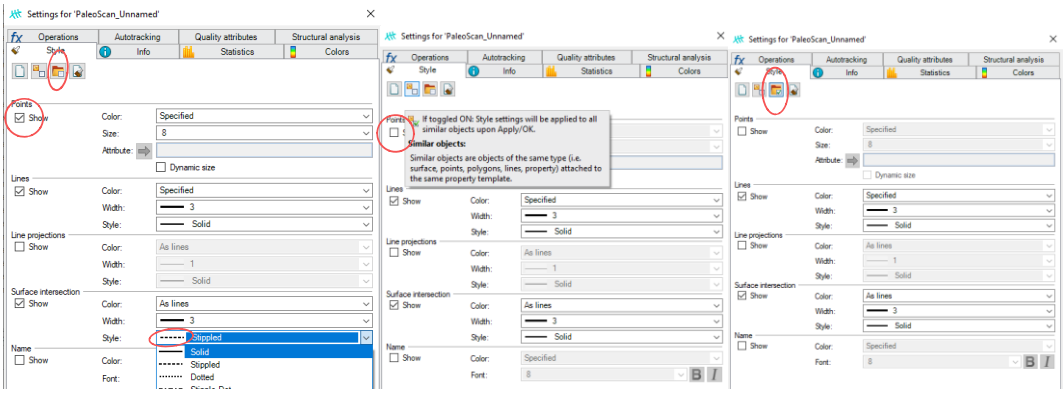
Don’t forget to apply the changes.

Directly run the workflow,



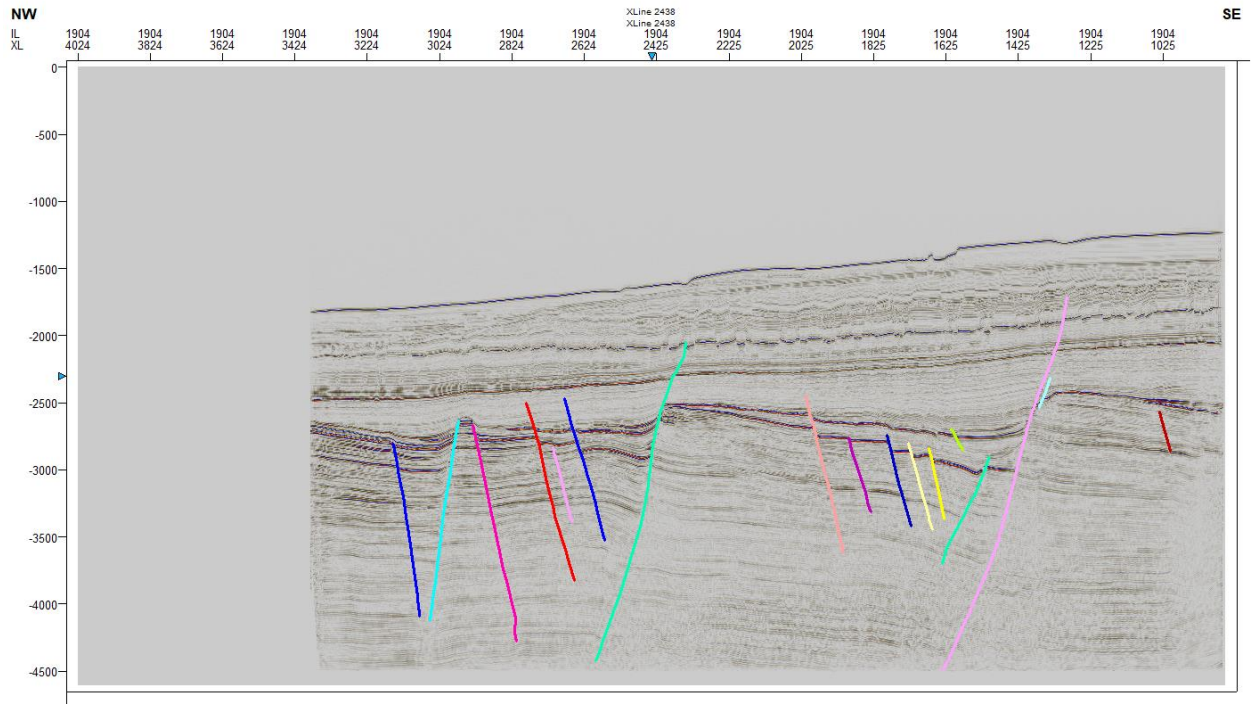
You will see screenshots contain both the seismic and fault labels. And the fault labels are with actual annotation are displayed as solid line with points. While generated fault labels are displayed by dash lines. This can be changed by right click any fault label and click settings.



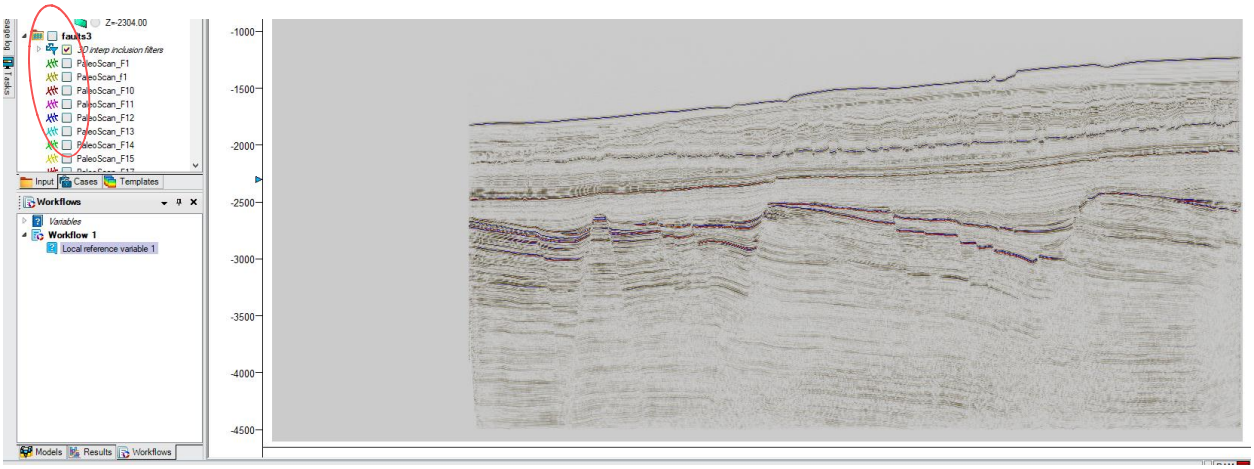


Change settings and apply to all similar objects in this folder.

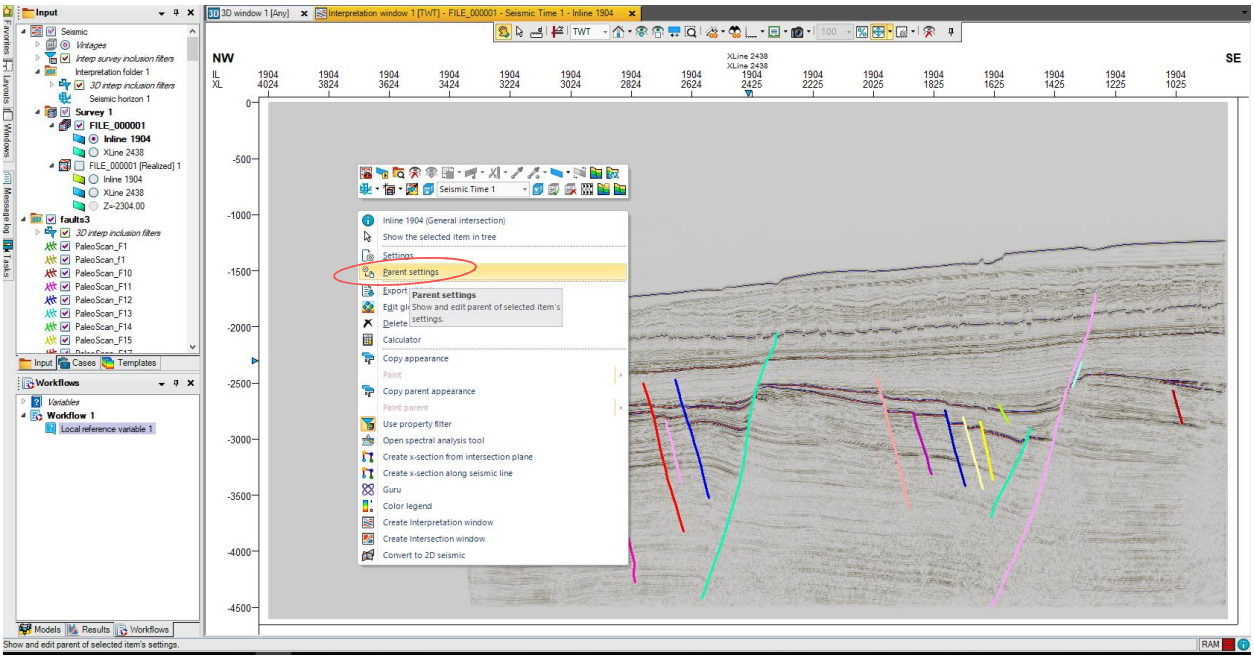
Than you will see fault sticks are display as below.



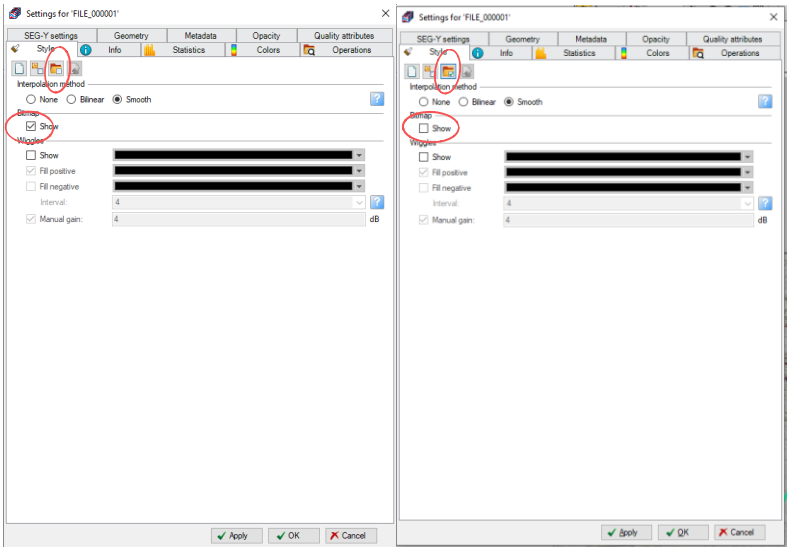
If you want to screenshot only the seismic. You can unselect the fault label folder in the input window. Then you get following.



Next if you want to only display fault labels, and screenshot only fault labels. You can move the mouse on seismic -> right click -> click parent settings



In the parent settings, find style tab. And unselect the show button under bitmap section and select the folder button right below the style tab to apply to all similar objects.



Click apply and ok finish.

As a result, you will see only fault labels are displayed.