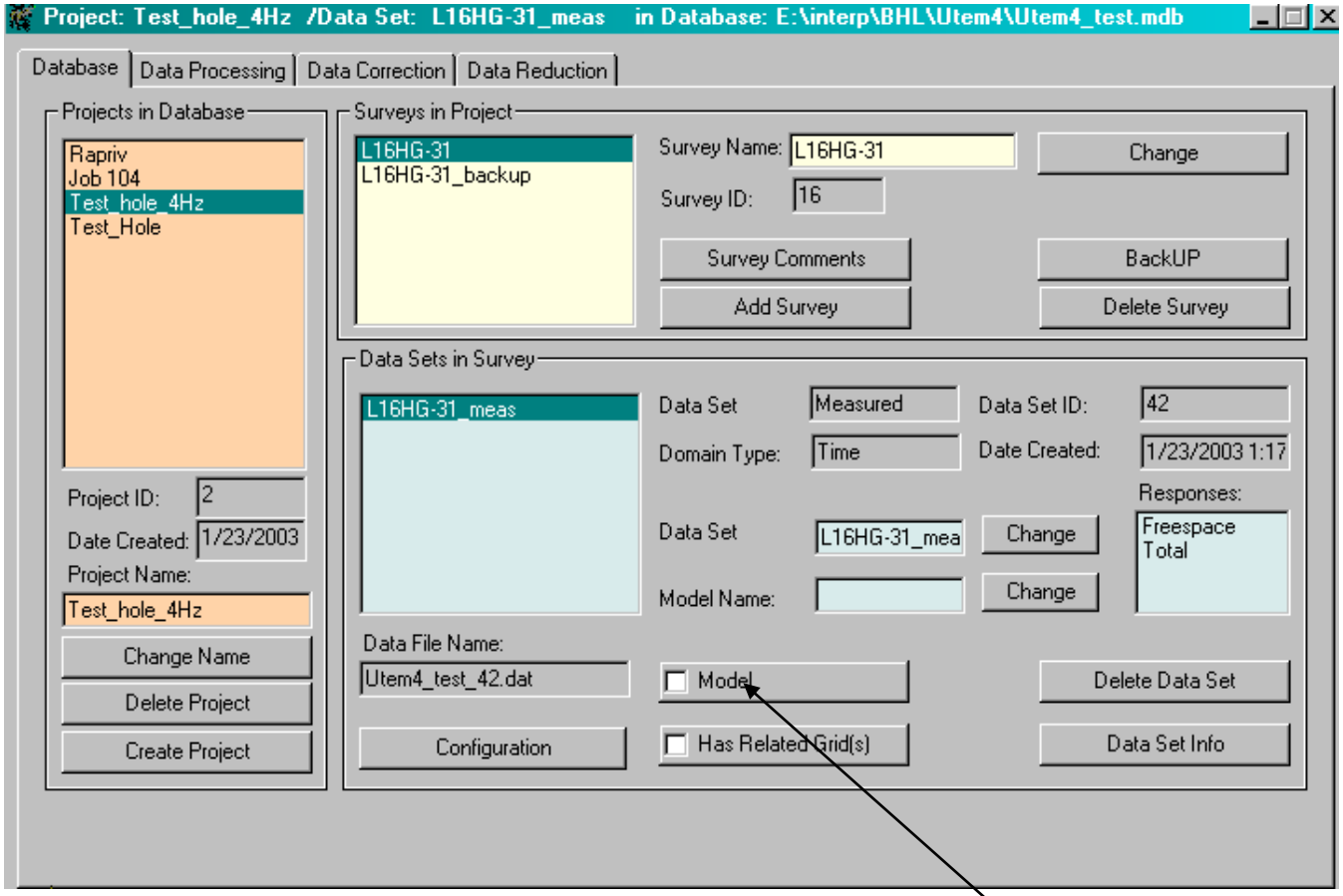
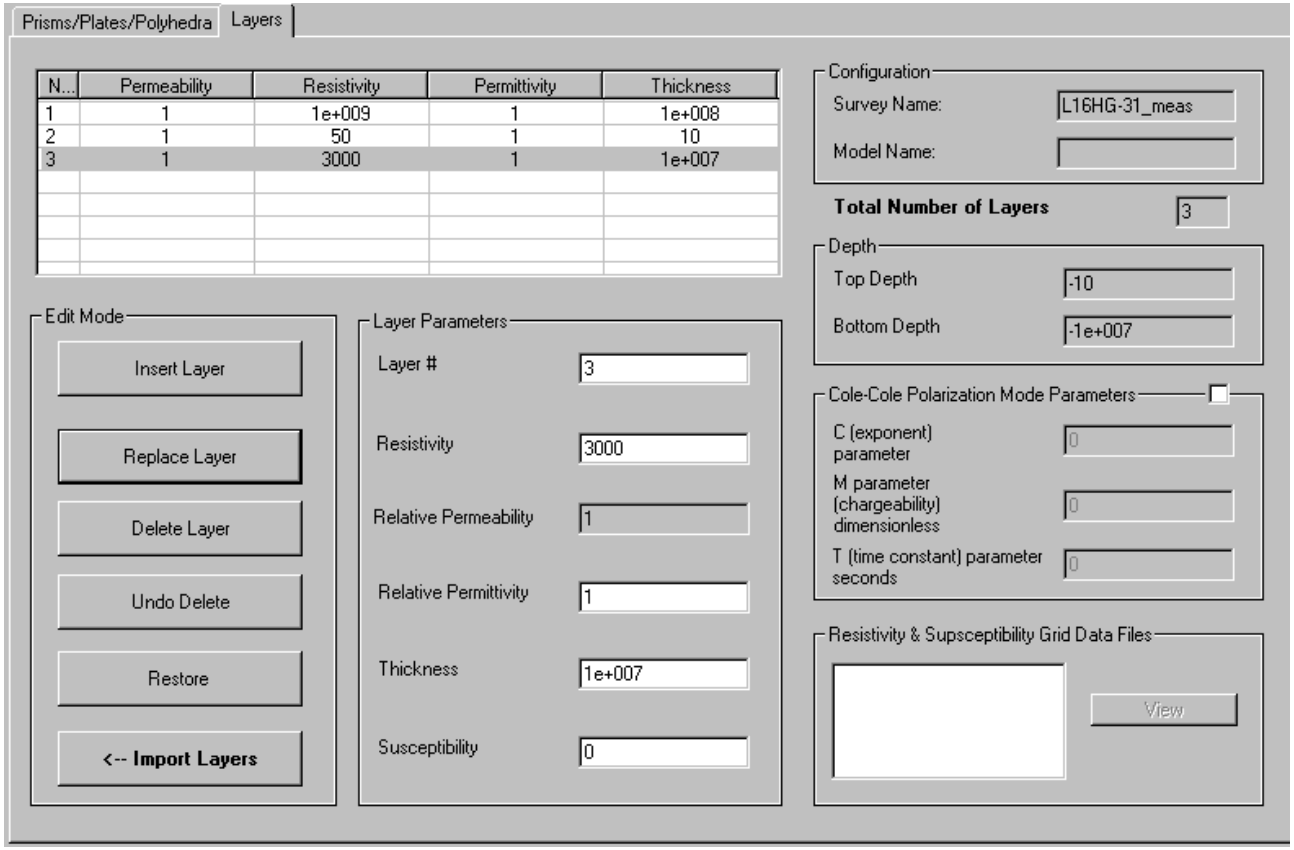
Introduction to Model Building in EMIGMA



Select your imported data or your synthetic survey

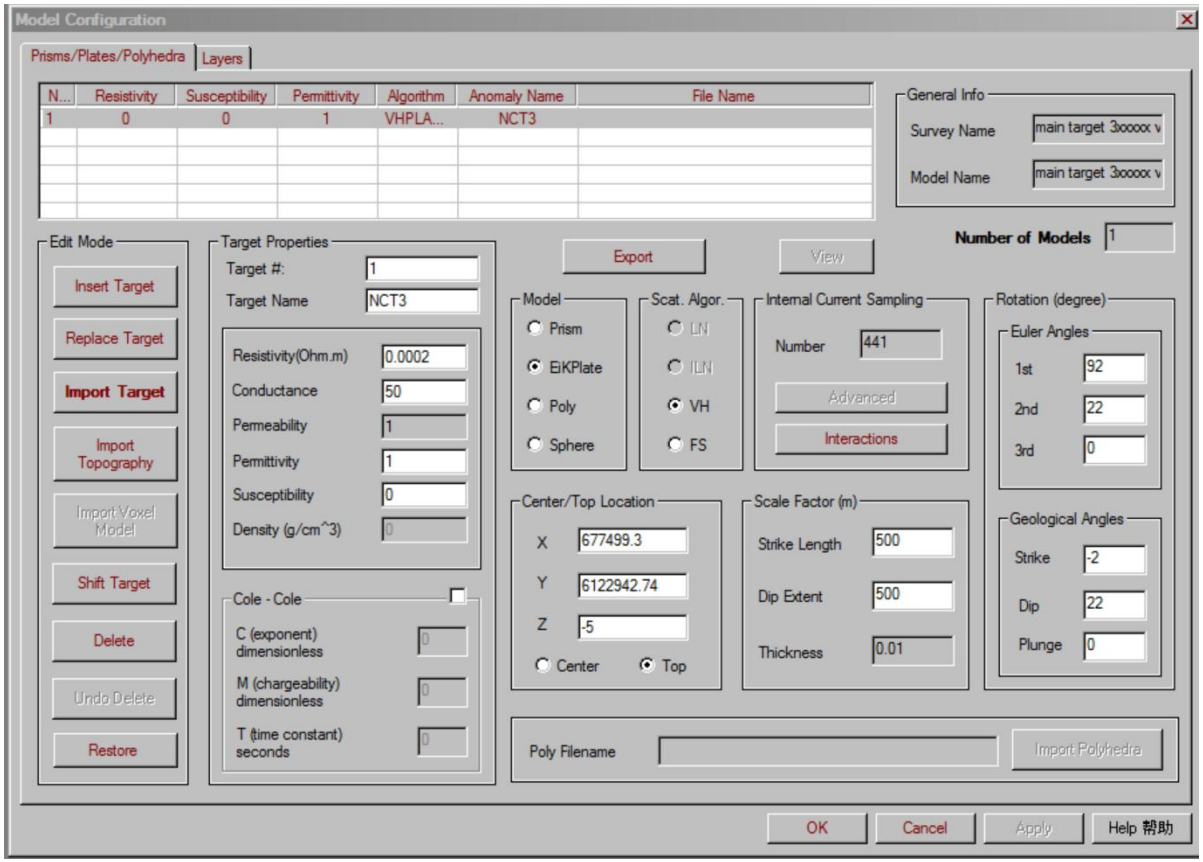
Click the Model button

For any EM/IP/MT survey first create a resistivity background



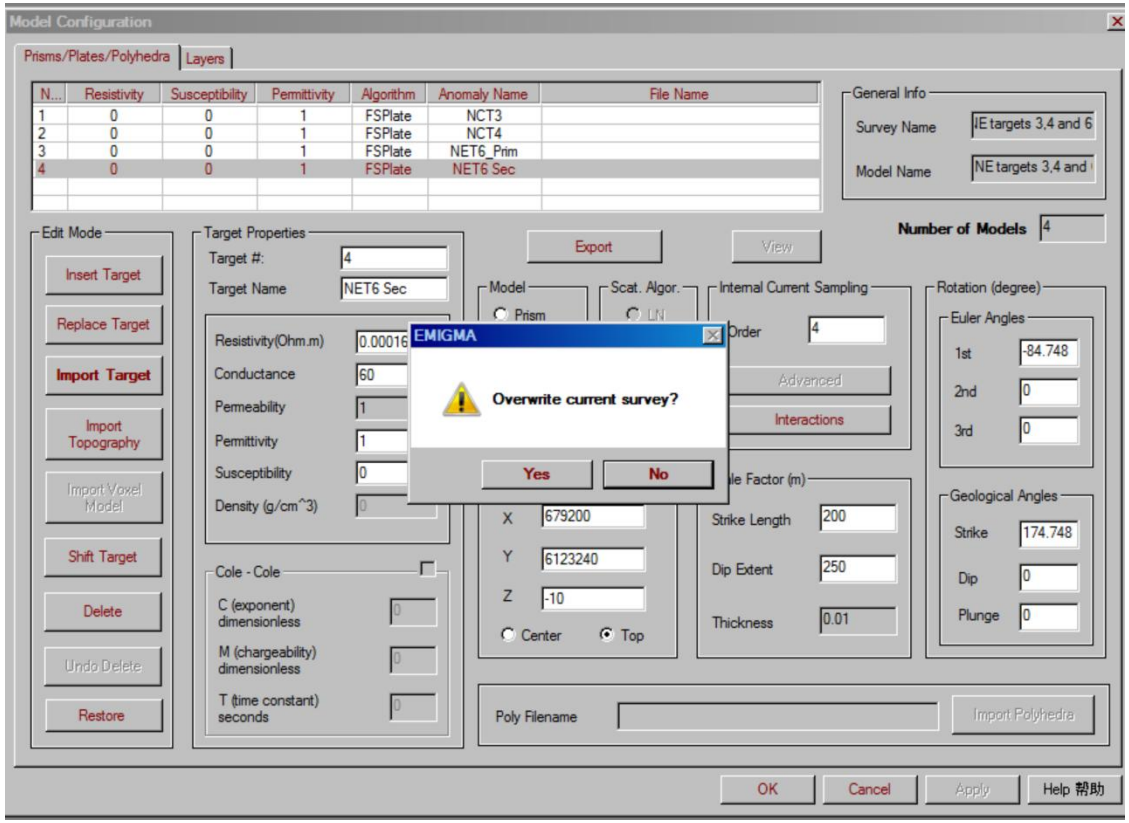
Add layers – remember the top layer is not assumed to be an air layer but this is default.

Insert a Prism/Plate or Sphere geometry



Insert a 3D model

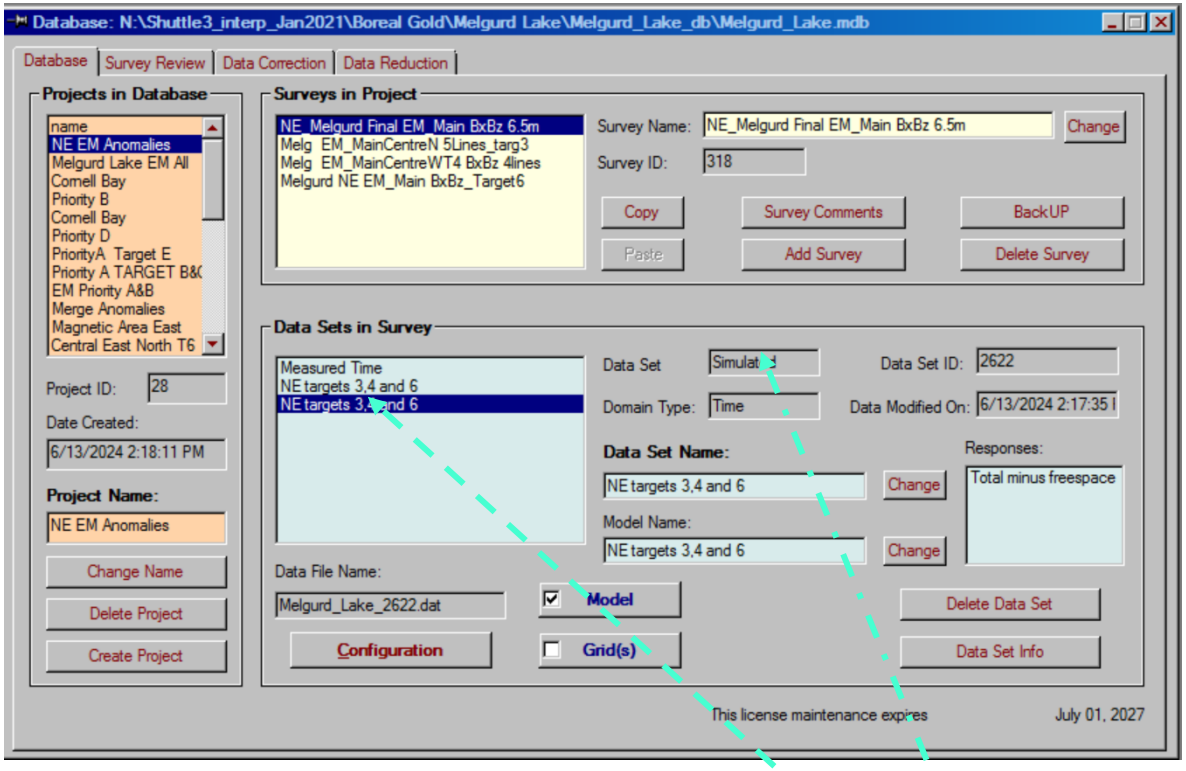
Adjust and Insert additional anomalies as required



If you click “OK”, then the message will ask you to “APPLY”

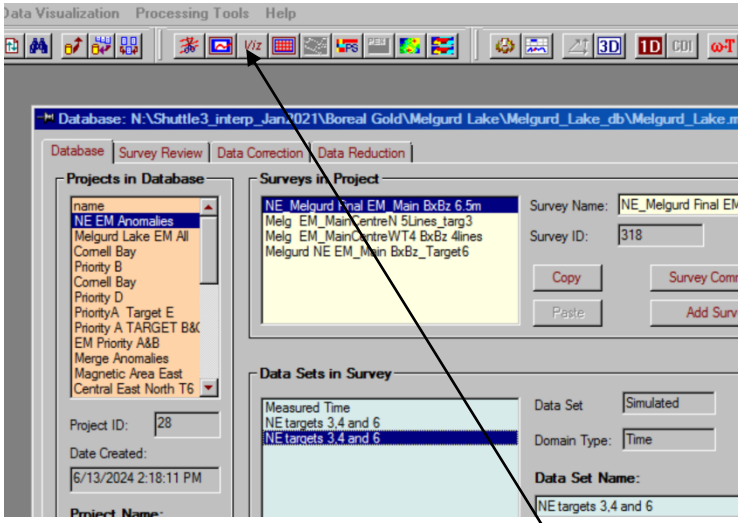
If you are editing a previous model, you may not want to overwrite.

Observe a new dataset within your Survey

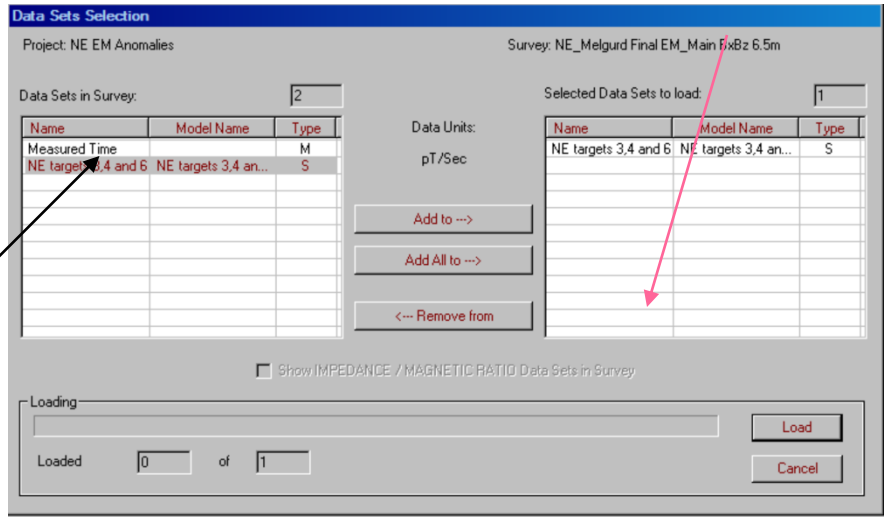


After selecting Apply then you will see a new data set which is a “simulated data set” and is attached to the measured data. This dataset has all the parameters of your measured data such as data stations, survey system, waveform, etc. There is no need to specify anything additionally before simulating your model.

Open model in Visualizer to check and adjust the model



Select the new dataset and then Select Visualizer



You may also load the measured data if you wish to view the data in relation to the model.

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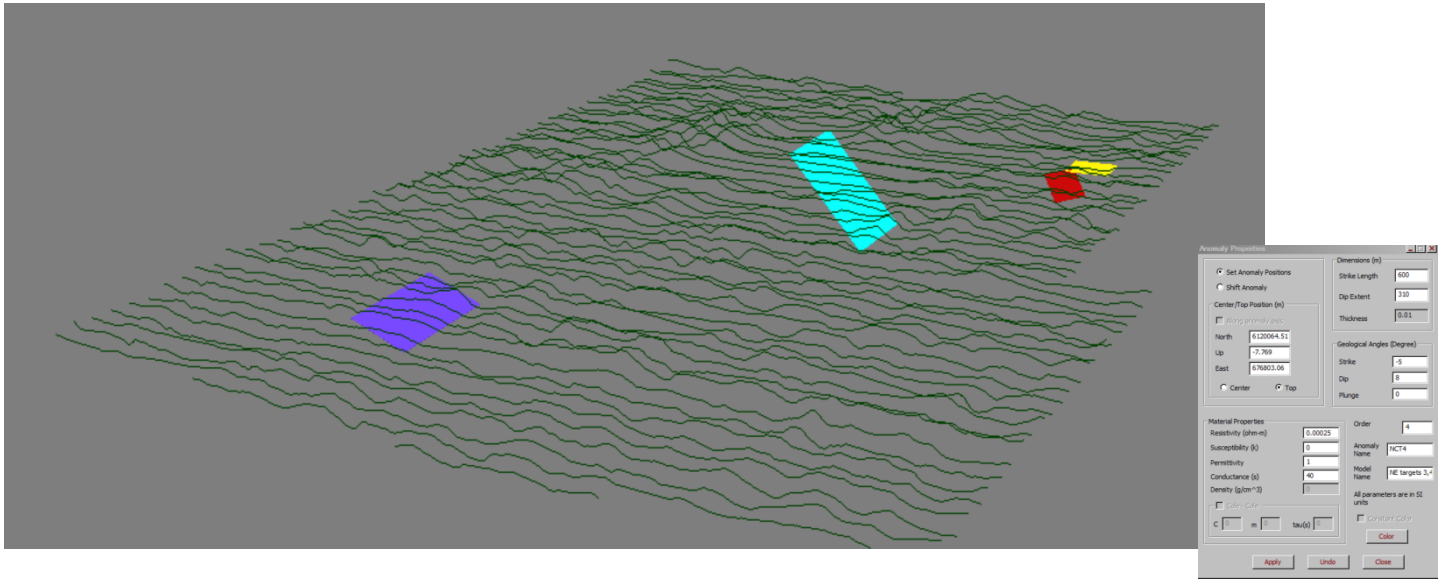
View in Visualizer to adjust as required



You can now uses the tools to view your 3D object in the Visualizer and you may edit each target and view the changes.

Save to database before exiting. It is possible to save to a new data set or to overwrite the old data set.