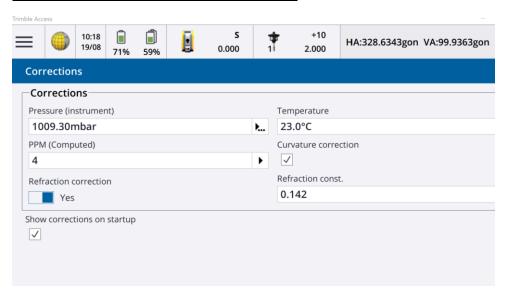
Survey procedures for MOVE3 Trimble Total Station

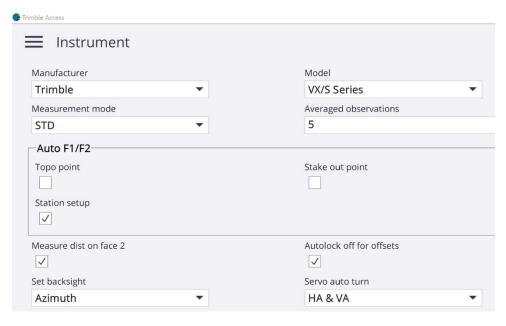
Corrections

Everything that will make a difference for the quality of the network will naturally be taken into account make sure you are aware of the Trempreture Atmospheric Corrections etc. These will have a influence on the distances.



Measurement Settings

Settings should also to be taken into account. Measurement methods to fixed stations such as 1^{st} and 2^{nd} face, and the settings for methods to stations. Correct Prism Constant is important. The Prism constant will be provided in the observation listing of MOVE3 on the far right of the column under **source**



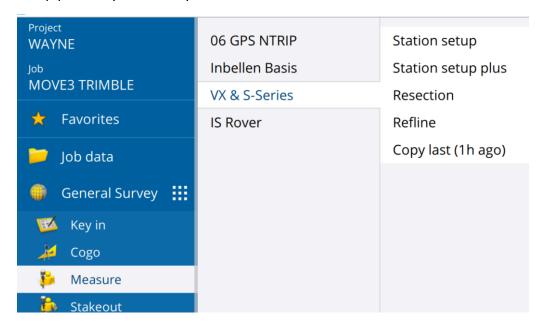
example

Setup Details

If you are measuring from a free station instrument height is 0 or setting up over known station place instrument height in.

Resections

Resections go through beautifully with MOVE3 as well as "Measure rounds" under Station setup plus. So you are very flexible.

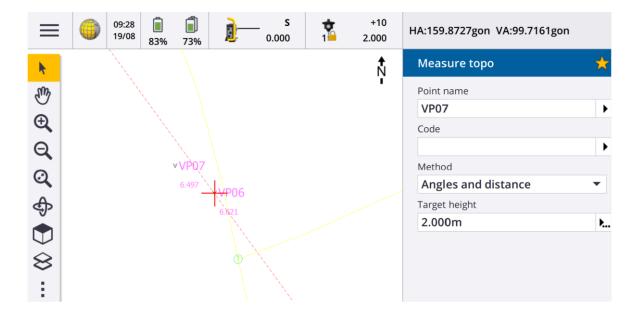


Measure to your known stations preferably minimal 3x <u>if possible</u>. At the heart of any Least Square solution are redundant observations. This provides the necessary statistical basis to check & defend your survey network

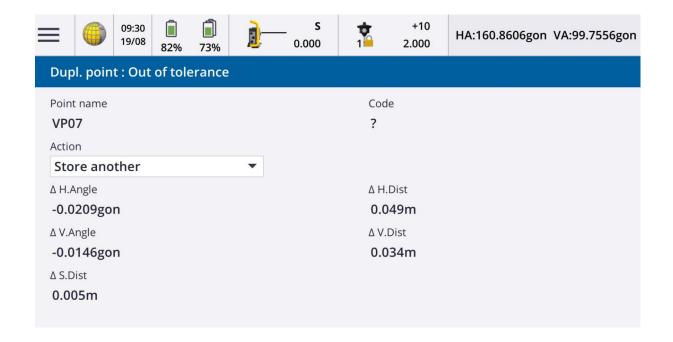
- Measure to your fix stations 1 & 2 face (that's up to you naturally 2nd face will bring more redundancy & accuracy which is a good thing)
- check your residuals then measure the fix stations again for more redundancy. Also measure the new stations which you maybe adding further down the line. The network has to be connected if you want a traverse as one.
 It's up to you how you connect all the bits the <u>order of survey for MOVE3 is not important</u> as long as you have a joined traverse in the end with the correct survey point.
- Measure to each station minimal 2x better 3x 4x... 10x is over the top and isn't necessary!
- You can use the "measure rounds" program they will be exported also into MOVE3.

Any errors you make in the field and erase will also be recorded in MOVE3 so you will have original data # symbol will be placed in the observations this will tell you this observation won't be used in the adjustment but it will give clearly what has been done in the field. Perhaps this erased information is in the end important to you.

The most important thing throughout the traverse is that stations names are kept the same if you measure to a station 07 then for the next set up if you have to measure station 07 again then keep to that same station name. This is the same for setup over a known station.



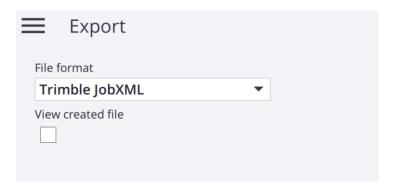
Accept store another





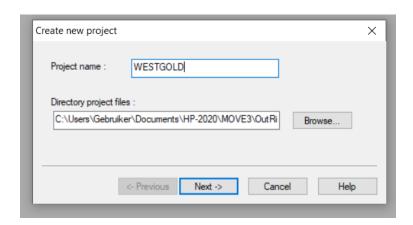
Exporting Data to MOVE3

Jxl file



MOVE3 Import Data

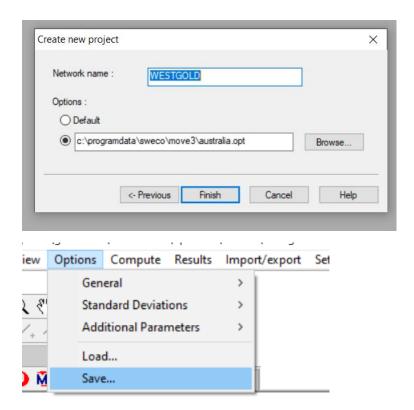
Create new project



Go to browse and select Australia.opt file if you wish here is the Australian SP attached.

Or just choose default and you can change the settings latter in MOVE3.

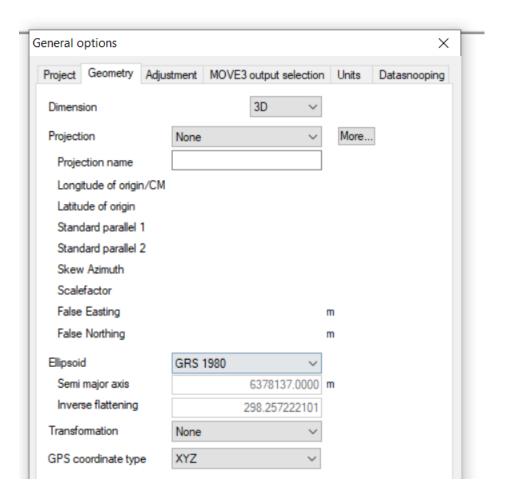
You can make yourself .opt files for saved settings for next jobs in MOVE3 options Save or to selected previously saved settings choose load.

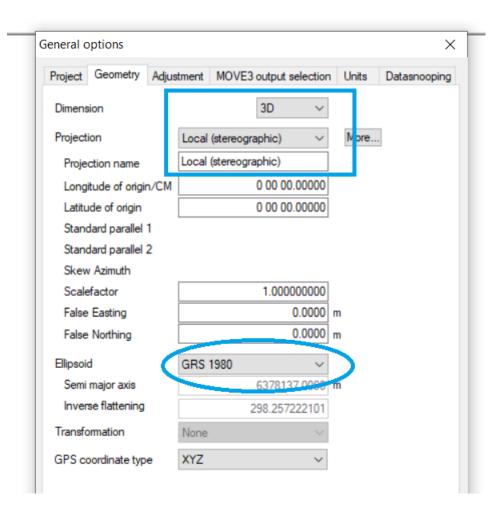


Select a projection

Under the **More** here you will find the Australian GDA projections.

If you are just working from a local choose the setting under



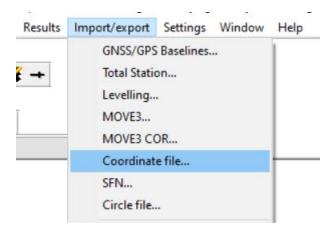


Importing fixed station data

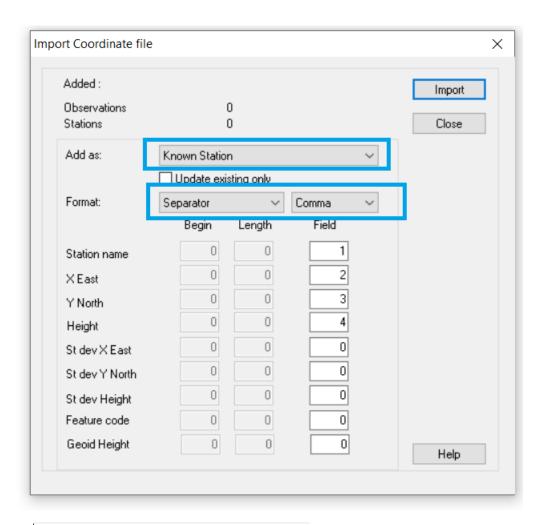
You import fixed station before or latter after importing your observations there is no fixed order.

Import-Coordinate file

IMPORT any fixed station file: if you have a list of fixed station coordinates you can import these if they are in they are from the Total Station these should will be automatically imported (latter you need to check these to make them fixed. You will see * symbol next to the station in the **stations** in MOVE3, you can double click the station to bring up the station editor (or direct on the screen selecting the station will bring up the station editor here you can tick to make the coordinates fixed XY or Height.



It's up to you how you want to import from csv excel or notepad. I prefer note pad.



```
1,259742.1821,544354.6196
```

8,259768.0754,544376.7149

Example: station number field1, EastX field2, North field3, Height field4

Gyro Measurements

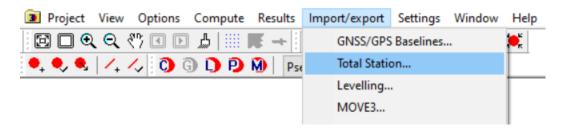
*If you have gyro measurement these values can latter added into MOVE3

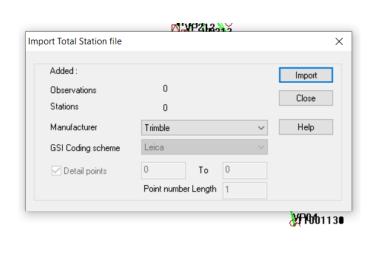
^{2,259768.0754,544376.7149}

^{3,259725.2213,544363.1753}

Import Total Station data

Jxl or DC







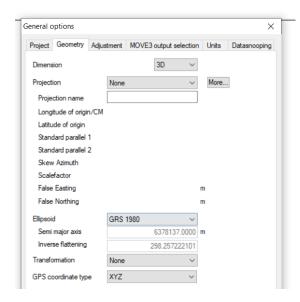


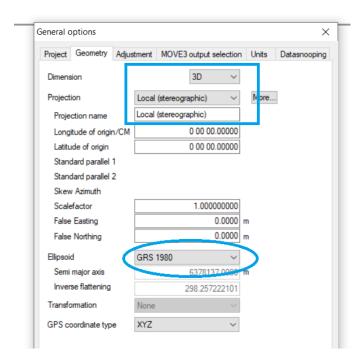
Projection Settings will appear

Select a projection

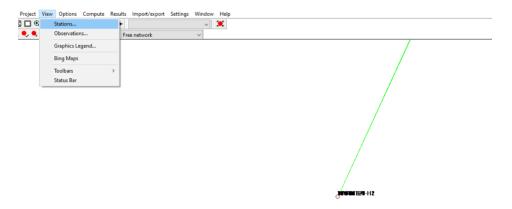
Under the **More** here you will find the Australian GDA projections.

If you are just working from a local choose local stereographic setting.

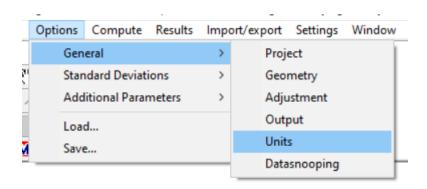




Go to View Stations Observations and see data



To Change to Degrees Minutes Second format



Wayne Pappas

MOVE3 Australia September 2020