# **Processing Seismic Data**

#### Move to Static

After adding the master and remote, you will need to 'Move to Static'. This can be done under View/Edit Features, which is under the Output menu. You will see the following screen:

Name	Time	Q	Std(m)	Fix	Azim	Add Station		Name	Time	Q	Std(m)	Fix	4 🔺	Add Station
🕂 1132	62444.7		N/A	· ·	N/A	Remove	ſ	🕂 1132	62440.0		N/A	· · ·	N	Remove
🕂 1121	63109.6		N/A		N/A			🕂 1132	62495.0		N/A		N	<u></u>
🕂 1122	63979.0		N/A		N/A	<u>E</u> dit		🕂 1121	63105.0		N/A		N	<u>E</u> dit
🛱 1123 👘	64644.2		N/A		N/A	Select All		🕂 1121	63245.0		N/A		N	Select All
🛱 1124	65084.8		N/A		N/A			🕂 1122	63975.0		N/A		N	
🛱 1125	65580.4		N/A		N/A			🕂 1122	64145.0		N/A			<u>V</u> iew Info
A 1126	66452.5		N/A		N/A	<u>V</u> iew Info		🛱 1123	64640.0		N/A		N	
🕂 1127	66877.2		N/A		N/A			🕂 1123	64780.0		N/A		N	
🔆 1128	67191.6		N/A		N/A	<u>G</u> lobal Edit		🕂 1124	65080.0		N/A		N	<u>G</u> lobal Edit
🔆 1129	67538.4		N/A		N/A	De Number		🕂 1124	65220.0		N/A		N	De Nuel-
🛱 1129	67987.4		N/A		N/A	Re- <u>N</u> umber		🕂 1125	65580.0		N/A		N=1	Re- <u>N</u> umber
•					ъ	Move to Static		A 110F	1000		61 IA		Ľ	Move to Stat
Select multiple	e items for 'Glob	al Edit	'or 'Re-N	umber		□ Show HMS		Select multiple	items for 'Glob	al Edit	'or 'Re-N	umber'		Show HMS
	ic' moves featur					essions			c' moves featur				tatic s	essions

Figure 1. Feature Editor (before)

Figure 2. Feature Editor (after)

Click on 'Move to Static', you will now see that there are two of each station marks listed (see Figure 2). What this option does is that it will duplicate the station marks and move one to the beginning of the static period and one to the end of the static period.

### Process

You may now start processing the data. The following are some of the options that may help:

- Engage KAR while in STATIC mode (under KAR tab) since there are periods of static
- The following will help if you are under trees a lot (under the Advanced KAR tab)
  - o Stricter reliability tolerance
  - o Use fast KAR
  - o Refine L1/L2 search
- Occupation mode (under Process tab) try with and without

## Check/Compare

Once GrafNav has finish processing, you may want to check/compare the solution. This can be done using Export Wizard (under the Output menu).

🗧 Export Coordinates Wizard 🔀	Sombine Features
Export File: C:\GPSD ata\Jay\main2.txt Source Pepochs Features/Stations C BTK Data Profile Serecan Aribone Camera Stations British Grid ETSurvey FAATC Geographic GrafNet (Network) GrafNet (Network) GrafNet (Traverse) Grid (Selectable) KinSurveyStations New Modify Delete Rename Copy	Features with BEGIN_STATIC and END_STATIC detected.   These are points with same names at the start and ends of each static session.   Do you wish to combine start/end into one point?      • Yes       • Yes       • Older State session.   Inderance between start/end position:      1.500   (m)       Log messages to main2.log   Stdev. warning tolerance:
< <u>₿ack</u> <u>N</u> ext > Finish Cancel	< <u>B</u> ack <u>N</u> ext > Finish Cancel

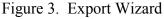


Figure 4. Combine Features

Under Source select Features/Stations and select a profile you prefer. Later you will come to the Combine Features window, select 'No' (see Figure 4). The reason why we select no is so that we can see the difference between the two points. Once Export Wizard has finish, you'll be able to see the results. Compare the two solutions for each Station Marks, especially the height. The difference will give us an approximation of the accuracy.

### **Final Solution**

After checking and comparing the result and are satisfy, you may want to output the final solution. Just repeat the same steps as **Check/Compare** except when you come to the Combine Features window choose 'Yes'. Once Export Wizard has finish, you will be able to view the final result.