

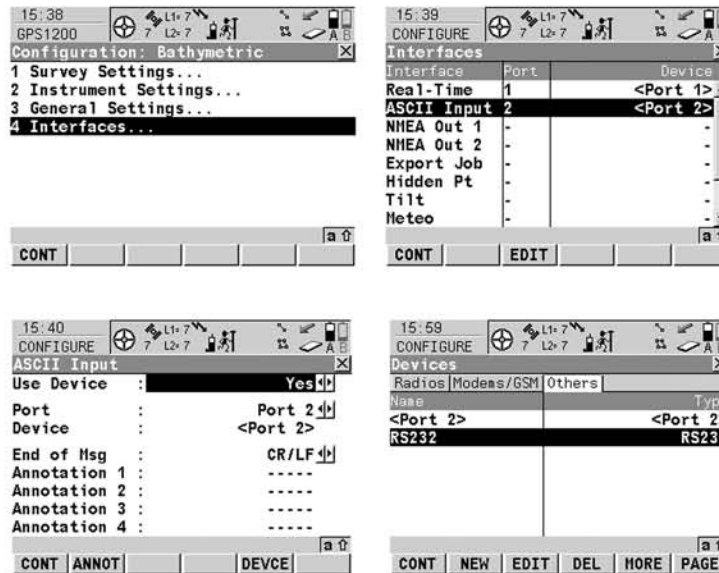


SeaFloor Support Bulletin

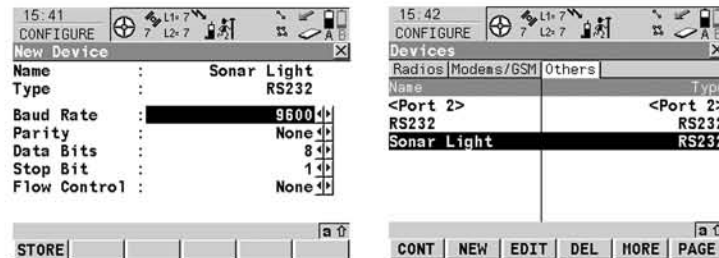
Sonarmite with Leica 1200 GPS System

Getting Started

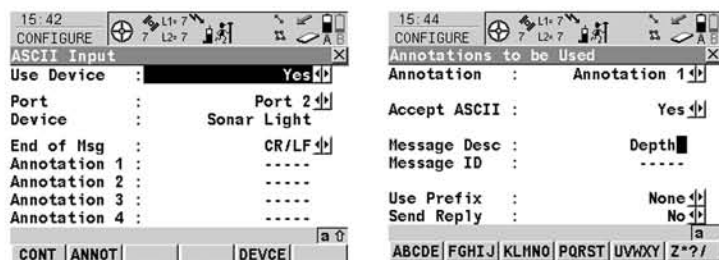
Setting Up ASCII Terminal Settings. From the main menu go to interfaces Command : Cont. Select your ASCII Input. Command : Cont.



Select the Use Device In Port 2 (or your choice) Command : Cont. Highlight the RS232 And select New Command : Cont.

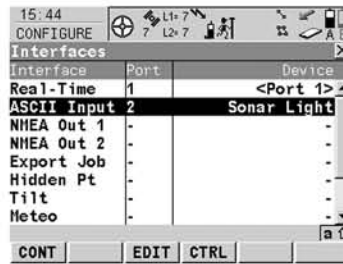
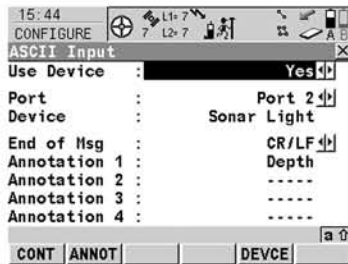


Type in your Name. We have used Sonar Light. Set the Rates as above. See Sonar light manual page 14. Command : Store. The GPS will now receive Data from the Sonar light. Command : Continue.



You must now set the end of message and Annotation 1. Command : Annot. Type in your Message description. We use Depth. Ensure the Accept ASCII is set to Yes. User Prefix is set to None. Send Reply is set to No. Command : enter.

The next screen should be as above confirming your settings. Command : Cont. Congratulations the Sonar light will now talk to the GPS. Command : Cont.

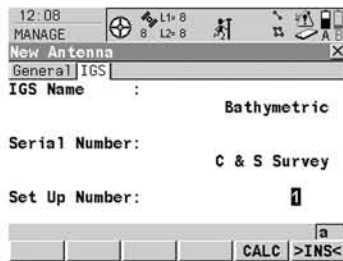
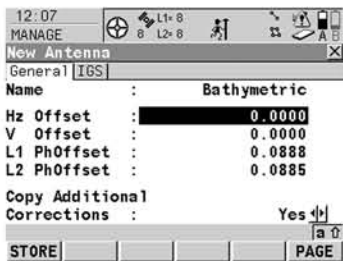


Antenna Set up procedure

From the main screen, (3) Management, (6) Antennas. Start with the ATX1230 Pole. This will bring over the correct phase offsets for your new set up. Command : NEW.

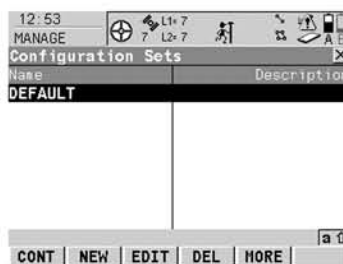


In the Name type in your description. In this instance we have used Bathymetric. Do not change other settings. In the IGS Screen change. IGS Name. Serial Number. Set Up Number. This gives your set up a unique IGS. Command : Store. Antenna is now set up : Note Antenna height must be set later !

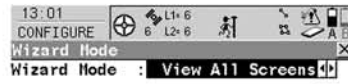
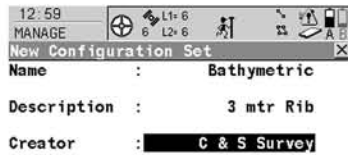


Setting Antenna Configuration

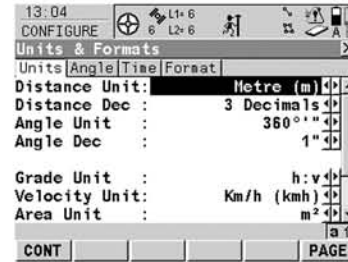
From the main menu. (3) Management. (5) Configuration Sets. Command : CONT. Select : NEW



Name your Configuration. Command : Store. Do not change. Command : Cont

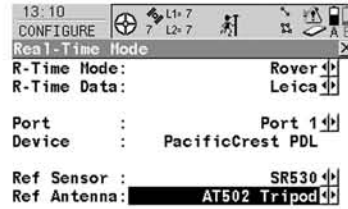


Do not change this screen unless you require different measurements (In the USA they use feet)
Command : Cont.

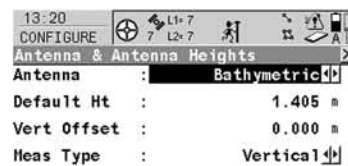
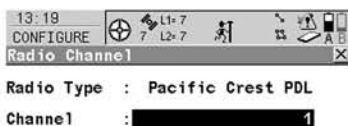


Setting the Configuration

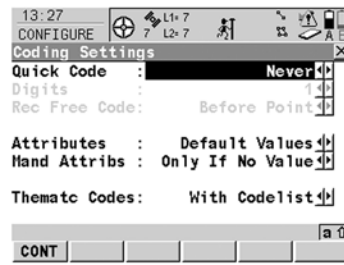
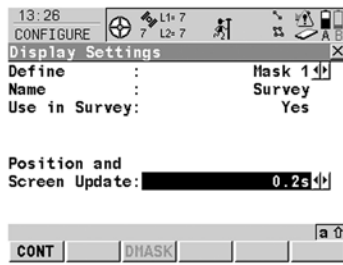
The R-Time Mode must be changed to Rover by toggling the arrows. Command : Cont. This is where you set up your specific base station. In this instance we have used a SR530 Antenna with a Pacific Crest radio in port 1. Set on the AT502 Tripod. Command : Cont.



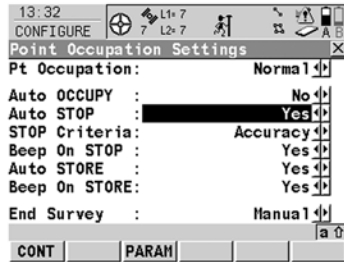
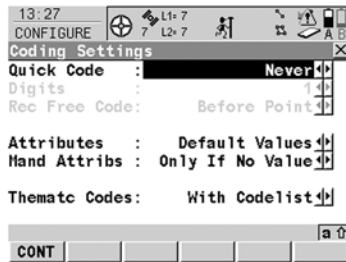
Set your required radio channel. This can be changed later if the channel is unavailable or corrupt
Command : Cont. Set the Antenna that you have already set up by toggling the arrows.
Ensure that the Default HT & Moving Ht are set to the dimension from the base of the transducer to the bottom of the antenna. Command : Cont.



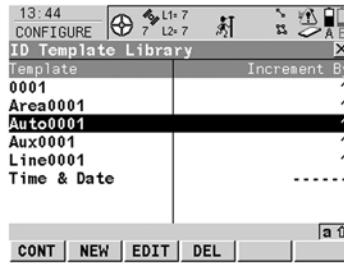
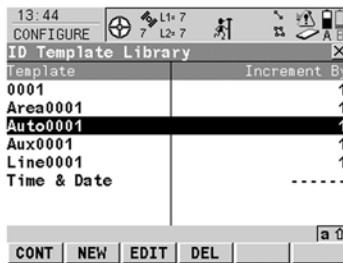
Define your display mask. And your screen update. As these are individual preferences we have left this up to the user. Command : Cont. As we are only collecting Depth these settings remain as default Command : Cont



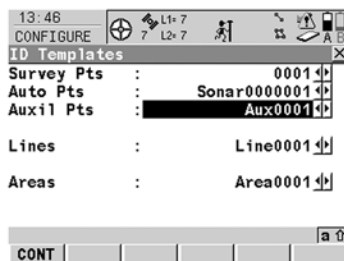
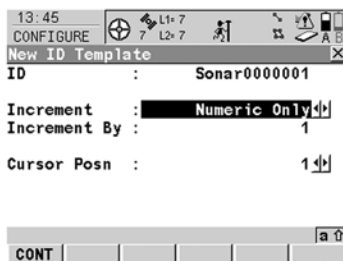
Ensure that the Log Raw Obs is set to Never. Command : Cont. Set the point Occupation Settings as per the above screen. This is our preference, you may wish to change some parameters. Command : Cont.



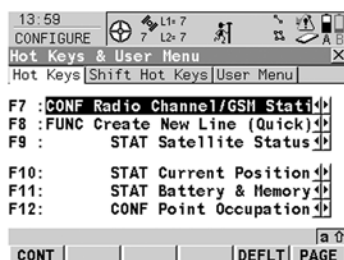
Create a new Template. Command : New. Create a new ID with sufficient logging point's we have set ours to a million as you may be collecting a lot of data. Increment by Numeric only. Command : Cont



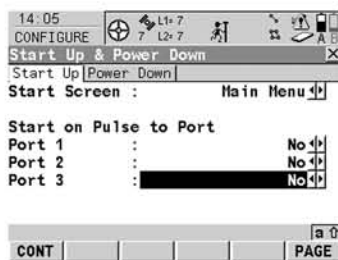
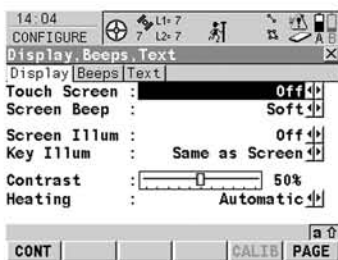
Note : on these screens the 1 million points is set on Auto for data collection, if this value is less the data will not be recorded after it has surpassed its setting ! Command : Cont.



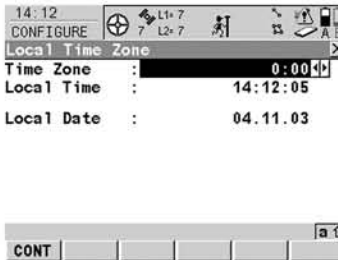
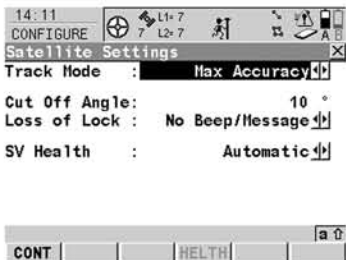
Set Store Seismic record to No. Command : Cont. Hot Key Set up. We have set this for our use you may wish to see different functions. If so " this is where you do it !" Command : Cont.



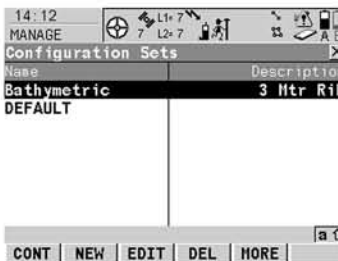
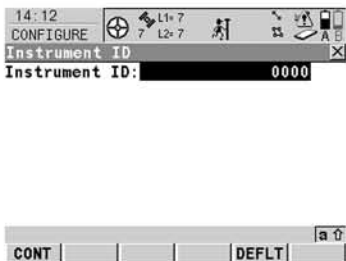
These settings are your preference. Settings shown are used by C & S Survey. Command : Cont. As you require to control the input all settings should be set to No failure to set this will result in huge amounts of unnecessary data. Command : Cont.



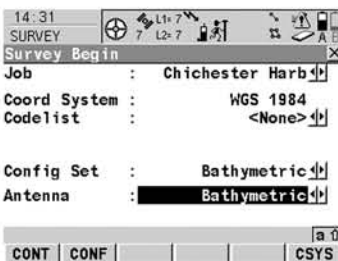
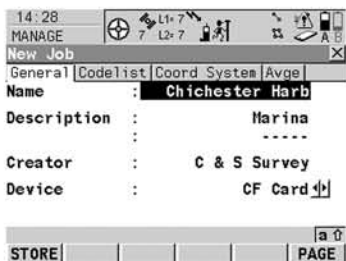
Standard Satellite Setting. No need to adjust unless you require a loss of lock Beep. Command : Cont. Time Zone settings as per the GPS Set up. Command : Cont.



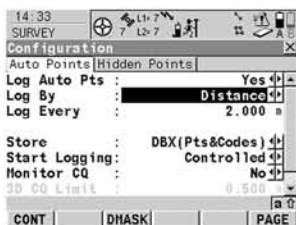
Your Instrument ID. Set by the instrument. Command : Cont. You have now set up all the criteria for your Configuration. Command : Cont



Set Up your New Project. Command : Store. You can of course specify your Coordinate system ! This is where you begin to set up your Survey parameters in the Antenna section. Command : Conf



Ready To Run



Set up to Auto log as per your requirement. This set up will log data as soon as the antenna has moved 2 mtrs from the last recorded point, we use this and the time settings dependant on the survey location. Start logging : Controlled (if not you will pick up a lot of unnecessary data).

Connect the echo sounder to the GPS with the green lead supplied by Ohmex Instrumentation. Connect the transducer to the echo sounder.

Start your Project with occupy. The instrument will log the data, depth is shown on your screen below the antenna Heigh