

nees@UTexas Trimble GeoXH GPS Field Usage Instructions

- 1) turn on
- 2) click GPS on the bottom right corner of the main screen
- 3) The default TerraSync screen (Status->Skyplot) has a sky map of the available sats. When the unit has synced with a sat it will turn from an empty square to a gray square.
 - a) Adjust your desired precision using the slider bar at the bottom of the screen. The higher precision the desired recordings, the greater the number of required sats with good geometry (their relative position which is used for triangulation).
 - b) the vertical bar on the right displays if the current sats and geometry meets the required level (the cross bar) to achieve the desired precision
 - c) the number at the top of the screen is the number of sats with lock. you have lost carrier lock if it is blinking. you want to try to keep carrier lock because all the points recorded during a carrier lock session are used as a group when doing post processing to increase the precision. if you loose lock, then you will have fewer recordings per group from which to correlate.
- 4) To start recording points Change the top pull down menu from "Status" to "Data"
 - a) change file name to some descriptive name (I suggest creating a new file for each day). OR change the "New" choice in the 2nd pull down menu to "Existing File" to use one you have already created.
 - b) leave all the other settings as their default and select "Create"
 - c) set the antenna height to the height at which you will hold the handheld. usually 1m is fine.
- 5) Set the 2nd pull down menu to "Collect Features" to create new features.
 - a) highlight the feature type (generally you will only take points)
 - b) select "Create"
 - c) you will see a "pen" and a number appear on the top bar. If the pen is solid it is taking recordings. The number is the number of recordings it has taken for this point. You can enter a comment about the point (usually a label) in the comment section. If the "keyboard" is hidden, click the keyboard icon in the center bottom of the screen.
 - d) You should also see the expected precision in cm.
 - e) keep recording until you get the precision you desire, then click the "OK" button.
- 6) you can update a feature by selecting the "Update" choice from the 2nd pull down menu and then selecting the feature to update. If you are in the same carrier lock session during which the feature was recorded, you can append recordings to the feature. Otherwise, you will be forced to delete the old recordings and create a new set for the feature.
- 7) make sure to "Close" the file prior to closing the software or turning off the unit.
- 8) turn off the unit. pushing the power button only places the unit into a suspend mode. you can reset the unit by holding the power button down for 5sec. To actually turn it off you need to hold it for 15sec. You will see the kernel start to load as it does during the reset. Keep holding the power button and it will end up powering off during the reset process.
- 9) charge the unit each night

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