



## LandMark Systems GPS/Solo Forest Cheat Sheet

### A. Basic GPS Wisdom



1. DOPS – Indication of satellite quality (the lower the value the better).
2. WAAS – Real-time correction signal, status bar will read DGPS. Uncorrected = GPS.
3. Need 4 SATs to get a 3D GPS location.

DGPS HDOP: 0.9 10 of 11 Satellites 17684K  
 N: 3,611,418.87 m E: 247,570.60 m

### B. Field GPS Wisdom (Solo Forest)

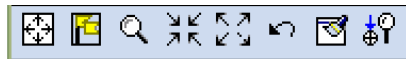
1. Solo Project File = .udf

2. 3 Mapping Questions to ask yourself:

1. Is this feature Static or Dynamic?  or  (Static=stationary, Dynamic = in motion).
2. Is this a new feature, or am I adding to one in progress? If new, select a feature from the **ALL** tab. If adding to a feature in progress, select the **In Progress** tab. **NEVER USE THE RECENT TAB!!!**
3. If it is a new feature, is what I am mapping a Point, Line, or Area? What is the end product?

3. 2 Toolbars

- Zoom




- Mode




#### Zoom To Buttons;

Everything  
 Logged Data  
 Zoom Window  
 IN  
 OUT  
 Previous (not Undo!)  
 Refresh screen  
 Follow GPS

4. 2 Dropdown Lists







- What are you logging with? 

- Log With GPS Location
- Log With Manual Stylus Point
- Log With Laser

- What are you trying to do with your stylus? 

- Stylus Selects Manual X,Y Location
- Stylus Selects Basemap Feature
- Stylus Selects Whole Feature
- Stylus Deletes Multiple Points
- Stylus Selects Logged Data
- Stylus Does Freehand Redlining
- Stylus Edits Basemap Features

5. 6 Mode Toolbar Shortcut Buttons

-  Single Flag – Starting something static
-  Create Grid
-  Flag with a Stopwatch – Logging dynamic data
-  Tape Measure – Measure lengths and bearings
-  Compass – Navigate
-  Export to Shapefile

6. Solo Tricks

- a. Select the Recon Keyboard from the droplist in the very bottom right corner of the screen
- b. To clear the keyboard from any screen in Solo, simply touch anywhere else on the screen
- c. To check polygon acres, change your Stylus to Select Whole Feature and touch anywhere on the feature.
- d. To edit a feature or the nodes in a feature, simply double-click on that feature
- e. If you are trying to do something in Solo like select a GPS or basemap feature and it is not working, then check what your Stylus is set to

## **C. Office GPS Wisdom**

### **Step #1 - Export shapefiles on handheld .**

- a. Select File > More > Export.
- b. If necessary, change Project Settings by selecting Options > Projections > **General Tab** and make Position Display = Northing-Easting and Distance Units = meters. Verify that the **Zone tab** is set to the correct Coord. System (for example UTM, NAD 1983, Zone ??)
- c. Check "Prompt for Filenames", Export, and rename each shapefile as it is created if necessary.

### **Step #2 - Synchronize handheld with PC. Be sure and check the following:**

PocketPC2003 - Go to Start > Active Sync > Tools > Options > Options and check "Enable PC Sync" box  
Windows Mobile 2005 – Go to Start > Active Sync > Menu > Connections > and check "Sync all PCs..." box

### **Step #3 - Transfer Shapefiles from handheld to PC.**

- The Data Path in Windows Explorer to Handheld is as follows:  
PocketPC2003 = Mobile Device\My Pocket PC\Built-in Storage\My Documents\Export  
Windows Mobile 2005 = Mobile Device\My Windows Mobile\My Documents\Export
- Remember that you must transfer all 3 parts of the shapefile, .shp, .shx, & .dbf to PC.

## **D. Troubleshooting**

1. **Lockups or "screen freeze"** - Perform a Soft Reset by holding down the On/Off button for 5 seconds.
2. **No GPS Signal** : (perform these steps in this order until problem is resolved.)
  - a. Soft Reset the Recon
  - b. Make sure battery is plugged in and has been charged.
  - c. Check Solo Forest settings to make sure Receiver type is set for Garmin 17N.
  - d. Check for shorts in the GPS cable near the 9 pin connector that plugs into the Recon and also at the power cable junction.
  - e. Call LandMark Systems Tech Support at (478) 971-4686.
3. **Can't Sync with PC:**
  - a. Make sure ActiveSync is installed on your PC.
  - b. Make sure USB cable is plugged in properly.
  - c. Disable any other PDA sync programs such as HotSync that may block the Activesync connection.
  - d. Check your Activesync settings on the Recon by selecting Start > Active Sync > Tools > Options > Options and check "Enable PC Sync" box. Unplug the Recon and then retry,
  - e. Restart your PC.
  - f. Disable any Firewall settings that may be blocking Activesync.
  - g. Call LandMark Systems Tech Support at (478) 971-4686.
4. **Handheld won't turn OFF** : Keep pressing the On/Off button until the unit Soft Resets.
5. **Bluetooth Connection Drops:** In Solo Forest, select Tools > GPS Configure > Restart.
6. **TCruiseCE Default IME Error:** (ie TCruise drops to the background and will not open)  
Go to Start > Settings > System Tab > Memory > Running Programs Tab, and then select TCruiseCE and Activate. If you avoid ever selecting the X in the upper right hand corner of TCruiseCE, then you will probably never have this problem.