

Juno SB Handheld



ProXT or H



Pro6H



connect via bluetooth, a form of wireless communication

Using TerraSync Software

Steps:

- 1) turn on ProXT (or XH 6H) and Juno
- 2) 1st time configure Bluetooth connection on Juno
(all other times just Turn On Bluetooth, no configuration required)
- 3) open TerraSync on Juno
- 4) start collecting data - save to files
- 5) when done in field, close TerraSync, turn off hardware
- 6) return to lab, use Pathfinder Office to download, correct, and export data to shapefiles



On main screen, tap the Bluetooth Symbol



Then turn Bluetooth on by tapping the word Bluetooth

Bluetooth is ON



To TURN ON BLUETOOTH

You should only have to do these next steps once, if you keep the same ProXT/XH

Bluetooth is ON



Select Menu when you want to "pair" to a new ProXT or ProXH

Select Add new device



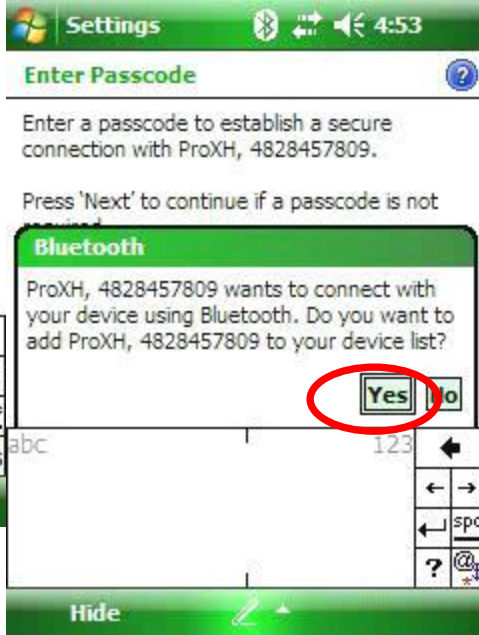
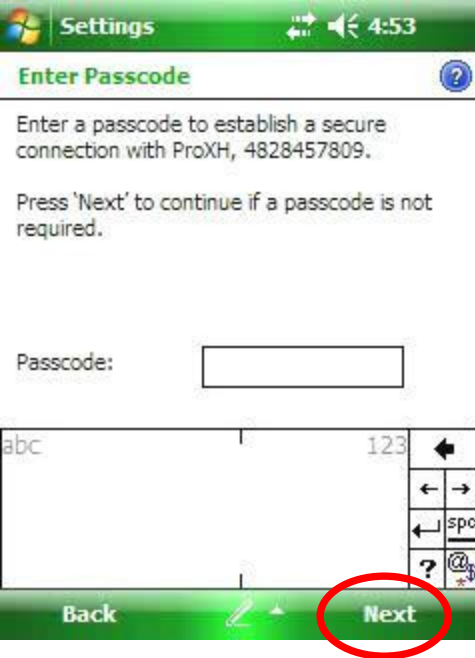
Select your device



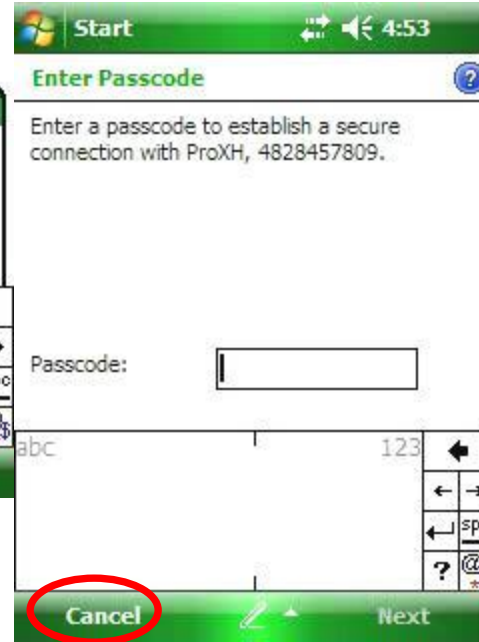
tap Next

No Passcode is needed for the ProXT and ProXH units (Passcode of 0000 for the Pro 6H) press Next

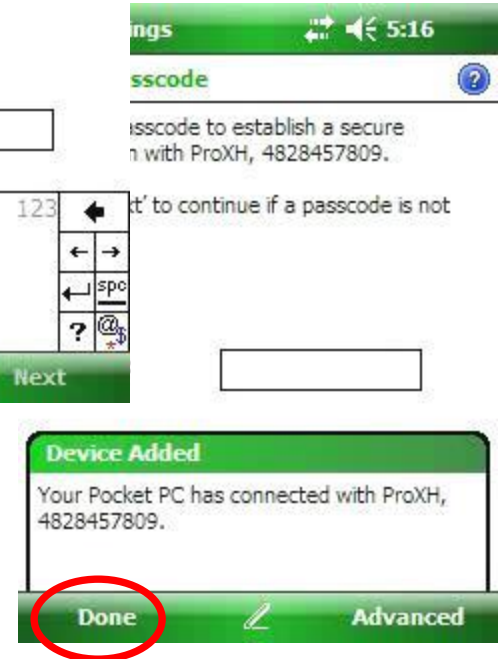
Select Yes



Select Cancel



Select Done



Select COM Ports



Bluetooth

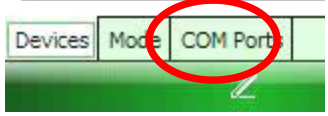
Tap Add new device to search for Bluetooth devices. Tap on a device to view its settings.

Select New Outgoing Port



Bluetooth

After pairing with a device, to set up a COM port tap New Outgoing Port. For other options, tap and hold an existing port.

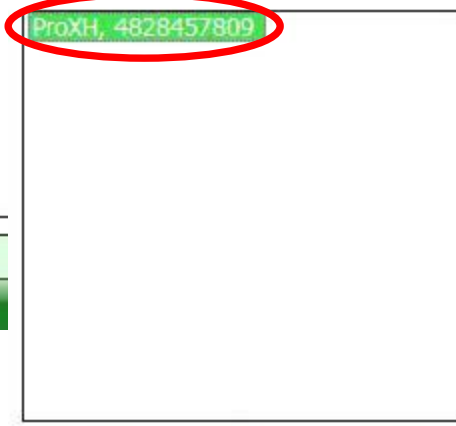


Select your ProXT/XH/6H



Add a Device

Select the device you want to add



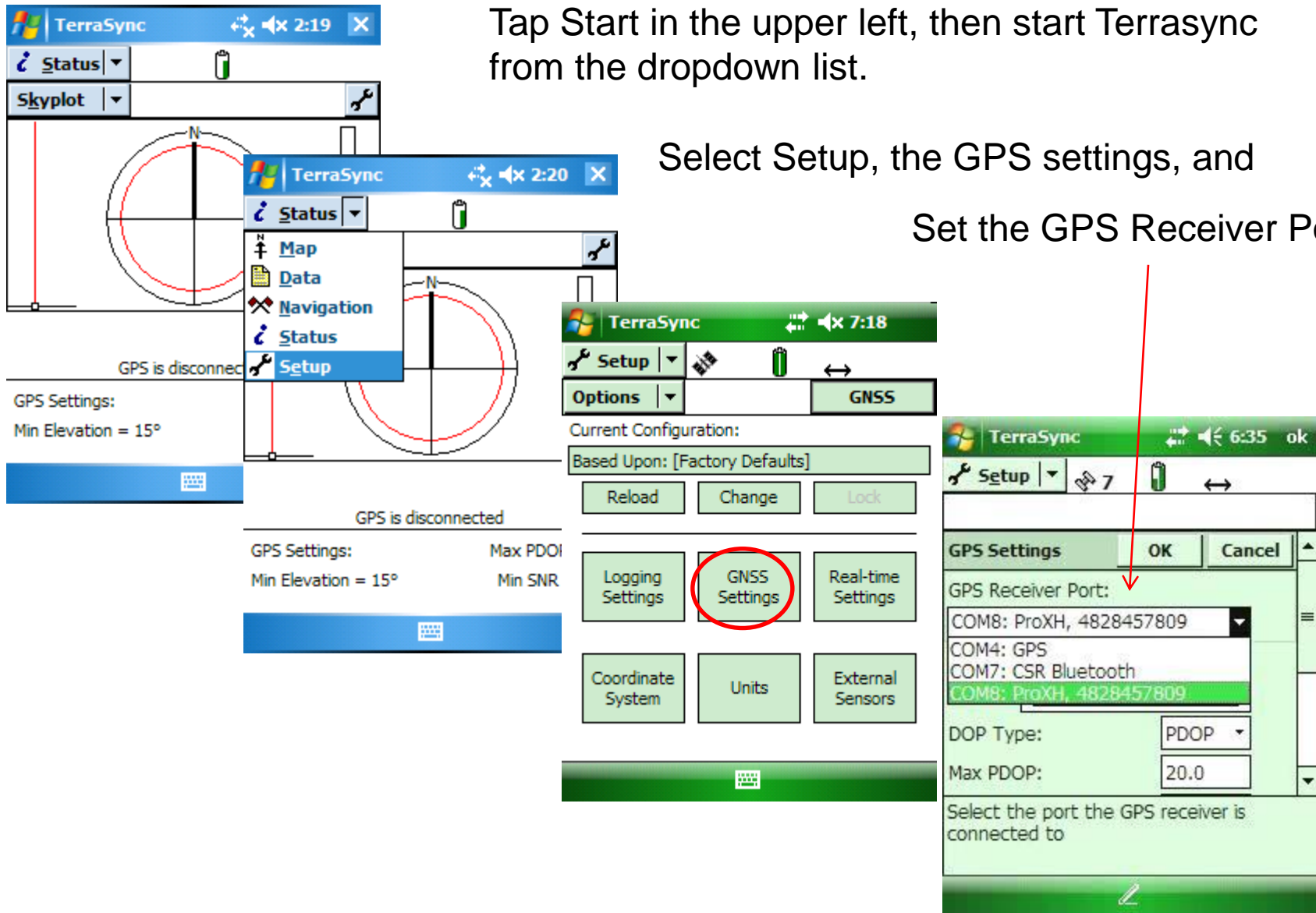
Select COM 3, 8 or 9; no Secure Connection, then Finish



Tap Start in the upper left, then start Terrasync from the dropdown list.

Select Setup, the GPS settings, and

Set the GPS Receiver Port



Com 3, 8 or 9 (on any number except 4) is use for the ProXT/XH with Bluetooth; Com4 is the internal Juno SB GPS

TerraSync 2:19

Status

Skyplot

Push the GNSS button to activate the GNSS connection

TerraSync 2:20

Status

Map

Data

Navigation

Status

Setup

GPS is disconnected

GPS Settings:

Min Elevation = 15°

TerraSync 2:21

Setup

Options

GNSS

Current Configuration:

Based Upon: [Factory Defaults]

Reload Change

GPS is disconnected

GPS Settings:

Min Elevation = 15°

TerraSync 5:01

Setup

Options

GNSS

Current Configuration:

Based Upon: [Factory Defaults]

Reload Change Lock

Logging Settings

GNSS Settings

Real-time Settings

Coordinate System

Units

GPS is disconnected

GPS Settings:

Min Elevation = 15°

TerraSync 6:40

Setup

Options

GNSS

Current Configuration:

Based Upon: [Factory Defaults]

Reload Change Lock

Logging Settings

GNSS Settings

Real-time Settings

Coordinate System

Units

Logging Settings

GNSS Settings

Real-time Settings

Coordinate System

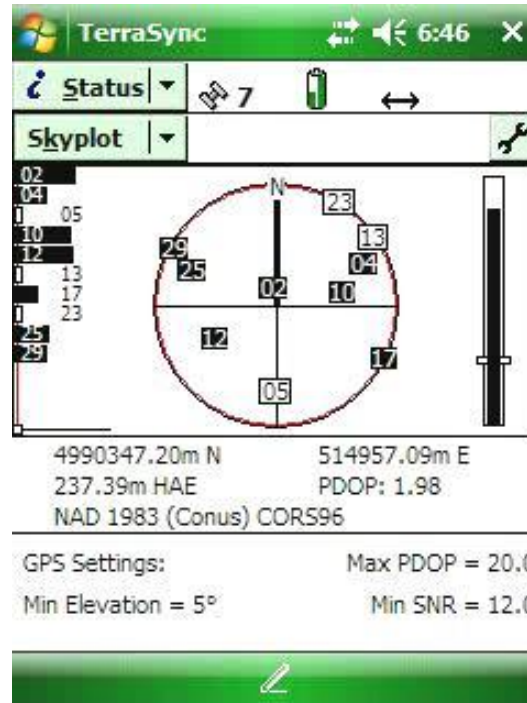
Units

External Sensors

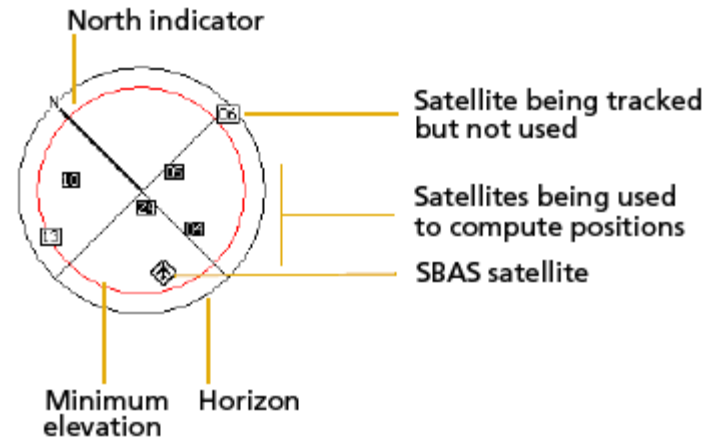
Your connected

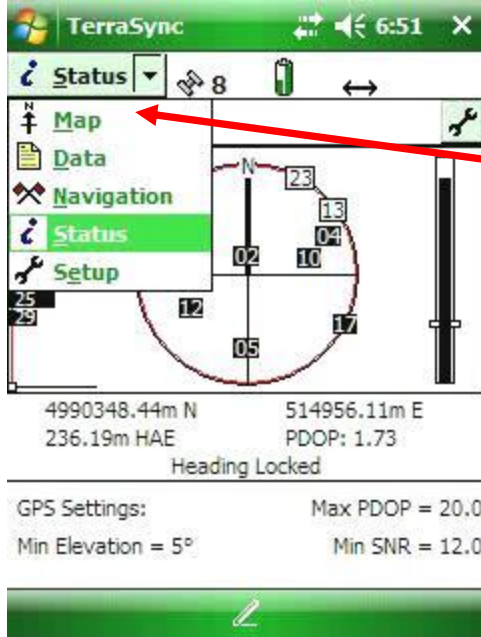
Home button

Once You Have a Bluetooth Connection and TerraSync running Here in an overview of the screen and choices








Explanation of Symbols

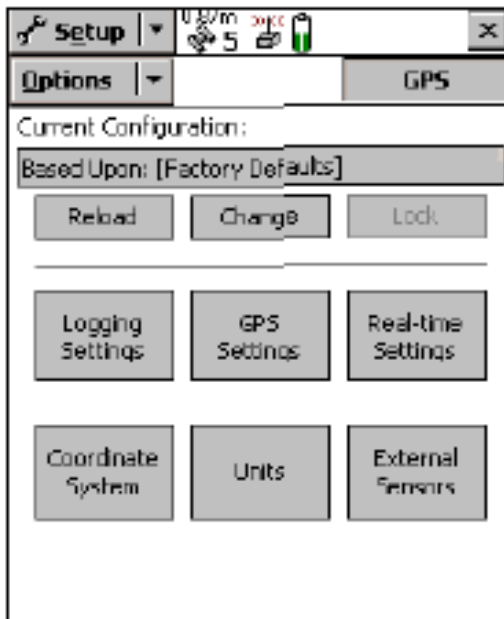




There are 5 main subwindows, you can select by tapping on the top-left selection

We'll most often use Setup, Status, and Data

Section	Function
 Map	View features, background files, and the GPS trail graphically.
 Data	Work with data files: <ul style="list-style-type: none"> create a new data file or open an existing data file collect new features or maintain existing features move, copy, delete, or rename data and background files
 Navigation	Navigate to features using the <i>Direction Dial</i> and <i>Close-up</i> screen. Create and edit waypoints.
 Status	View information about: <ul style="list-style-type: none"> the satellites the TerraSync software is tracking, their relative positions in the sky, and your current position the GPS receiver and real-time correction source the TerraSync software version and trademark information
 Setup	Configure the TerraSync software.



Select Status - this shows the current satellite constellation

The screenshot displays the TerraSync software interface with several overlapping windows. A red arrow points from the text 'Select Status - this shows the current satellite constellation' to the 'Status' menu item in the top-left window. The 'Sat Info' window shows a table of satellite data:

PRN	SNR	Elev
03	28.9	20°
07	49.1	72°
08	46.4	64°
11	31.6	23°
13	39.7	17°
19	48.3	50°
27	45.3	84°
28	36.2	32°

The 'Receiver' window shows the following status information:

- GPS: Connected
- Antenna: Internal
- Position status: Calculating positions
- Carrier time: N/A
- Almanac: 8/29/08
- Battery: 92%
- Receiver type: GPS Pathfinder ProXH
- Navigation version: 1.82
- Signal processor version: 235.11

Other visible windows include 'Sat Info' with a 'Sat Info' dropdown, 'Skyplot' with a circular plot of satellite positions, and 'GPS Settings' with 'Min Elevation = 15°'.

TerraSync 5:47

Status

Map
Data
Navigation
Status
Setup

Select Status

TerraSync 2:42

Status 5 6.4m

Sat Info

Skyplot

- Satellite Info
- Receiver
- Real-time
- Plan
- Comms
- UTC Time
- About

Almanac: 8/29/08

GPS Settings:
Min Elevation = 15°

Heading Locked

02:00pm

PDOP

02:00pm 06:00pm 10:00pm 02:00am

TerraSync 2:44

Status 5 6.4m

Plan Options

Heading Locked

08:24pm

PDOP

02:00pm 06:00pm 10:00pm 02:00am

TerraSync 5:47

Status

Map

Data

Navigation

Status

Setup

GPS is disc

GPS Settings:
Min Elevation = 15°

Select Status

TerraSync 2:42

Status

Sat Info

Skyplot

R	Elev	Br (T)
1	20°	
3	71°	
4	64°	
7	24°	
8	17°	
1	50°	
9	83°	
1	33°	

Satellite Info

Receiver

Real-time

Plan

Comms

UTC Time

About

Almanac: 8/29/08 PDOP: 3.9

GPS Settings: Max PD

Min Elevation = 15° Min SN

TerraSync 2:45

Status

Comms

COM6: GPS

COM1: None

COM3: None

COM7: None

COM8: Bluetooth

TerraSync 2:45

Status

UTC Time

UTC Time:

19:48:17
September 6, 2008

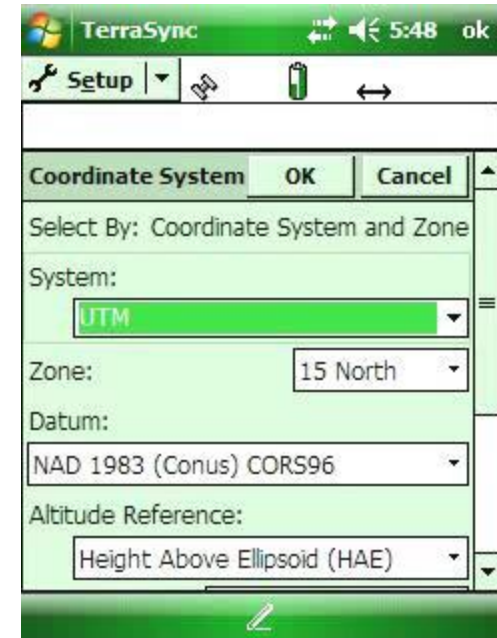
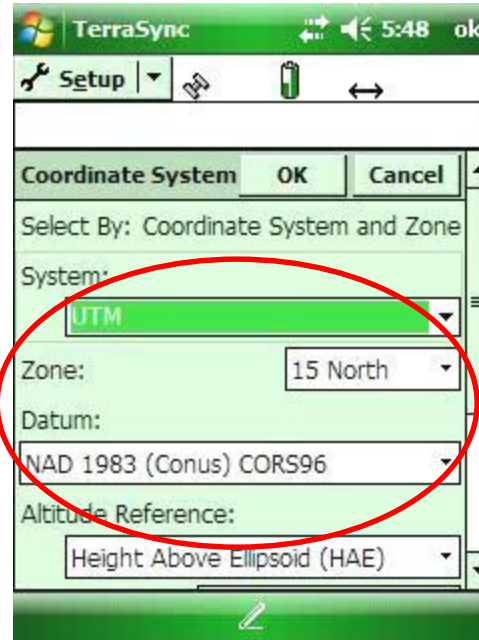
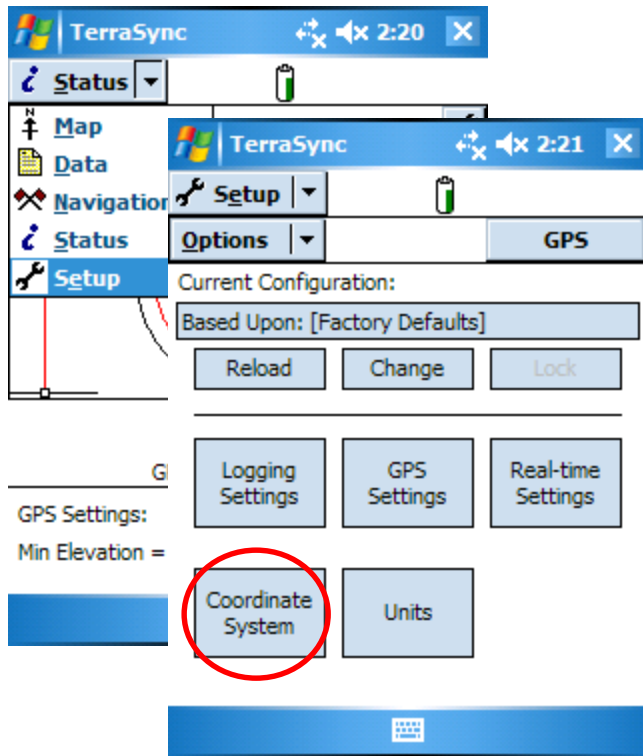
Keyboard icon

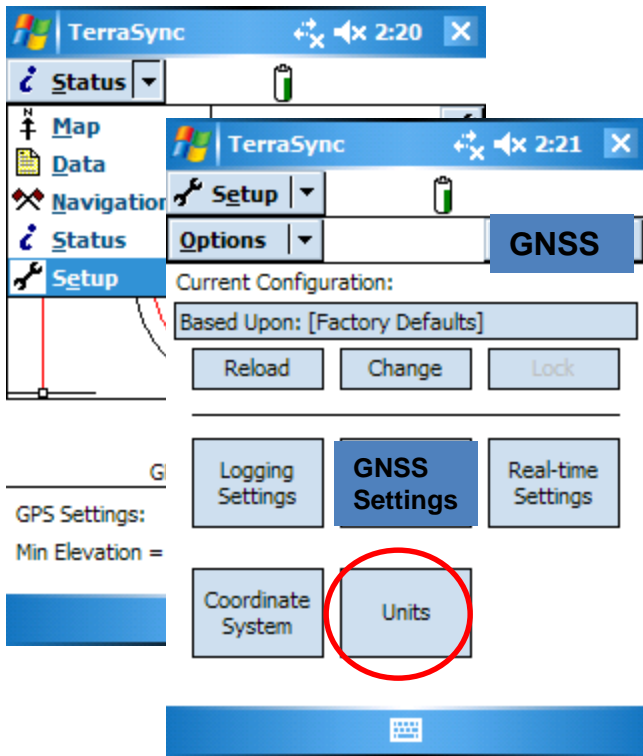
Under Setup, we can set logging settings

The image displays a sequence of four screenshots from the TerraSync application, illustrating the process of accessing logging settings. The screenshots are arranged in a cascading manner from top-left to bottom-right.

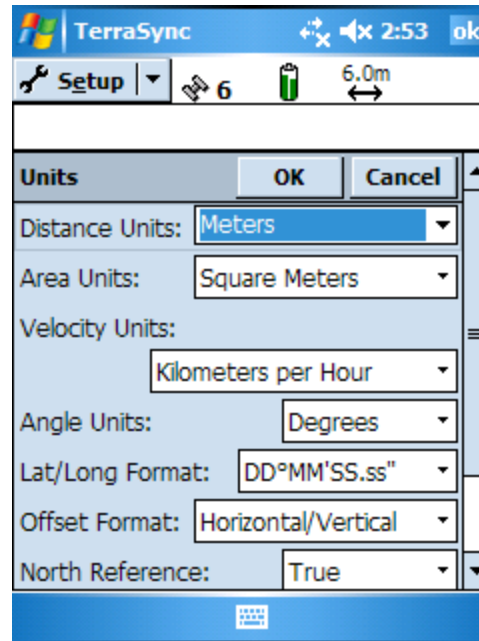
- Top-left screenshot:** Shows the main application interface with the 'Setup' menu item highlighted in the top navigation bar. A red circle highlights the 'Logging Settings' option in the 'GPS Settings' section of the main menu.
- Second screenshot:** Shows the 'Logging Settings' dialog box open. The 'Log Carrier Data' dropdown menu is highlighted with a red circle, and its value is 'Auto'. Other visible settings include 'Antenna Height' at 2.000 m and 'Confirm End Feature' set to 'No'.
- Third screenshot:** Shows the 'Antenna Settings' dialog box open. The 'Height' field is set to 2.000 m, 'Confirm' is set to 'Per File', and 'Type' is 'ProXH Internal'. The 'Measure Height To' dropdown is set to 'Bottom of antenna mount'.
- Bottom-right screenshot:** Shows the 'Logging Settings' dialog box again, but with more options visible. The 'Filename Prefix' is 'R', 'Waypoint Filename Prefix' is 'W', 'Style' is 'Time', and 'Interval' is 'Off'. The 'Confirm End Feature' is still 'No'.

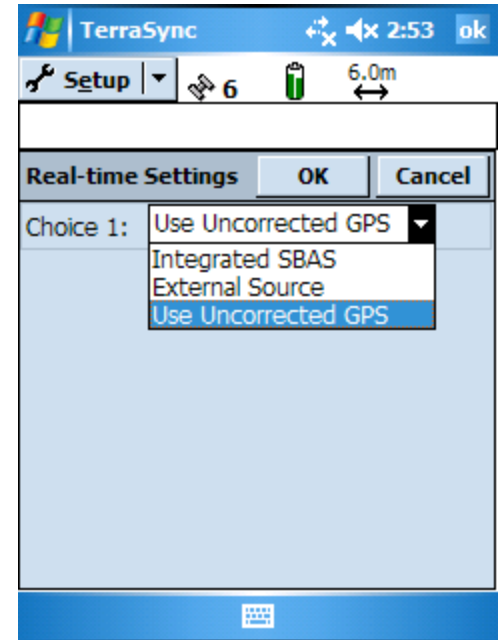
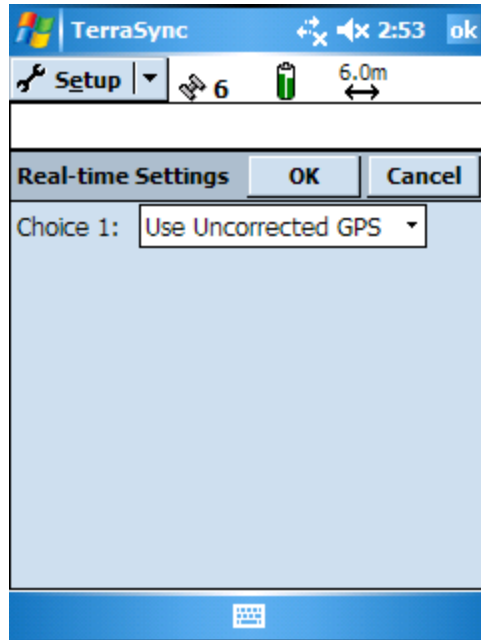
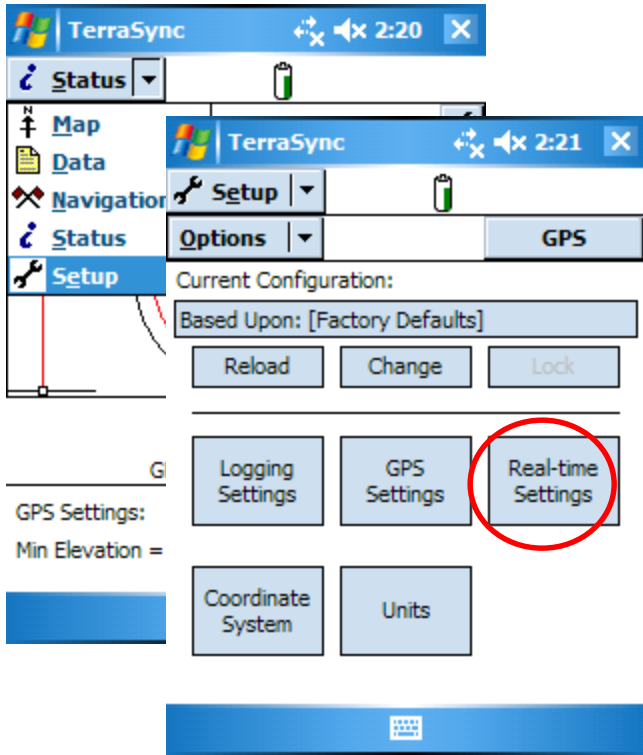
We can also set the coordinate system

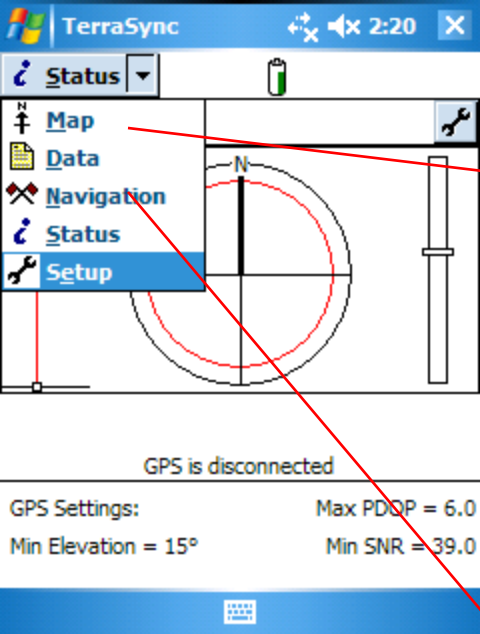




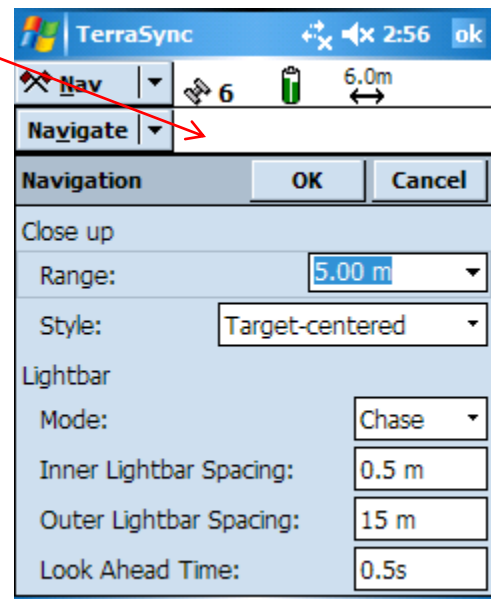
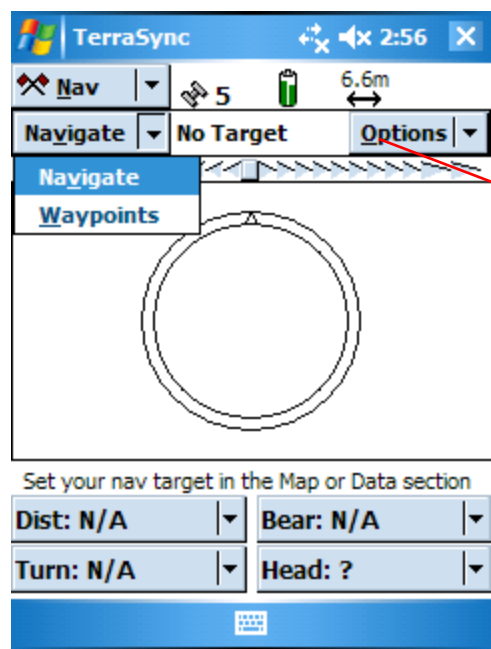
....and units

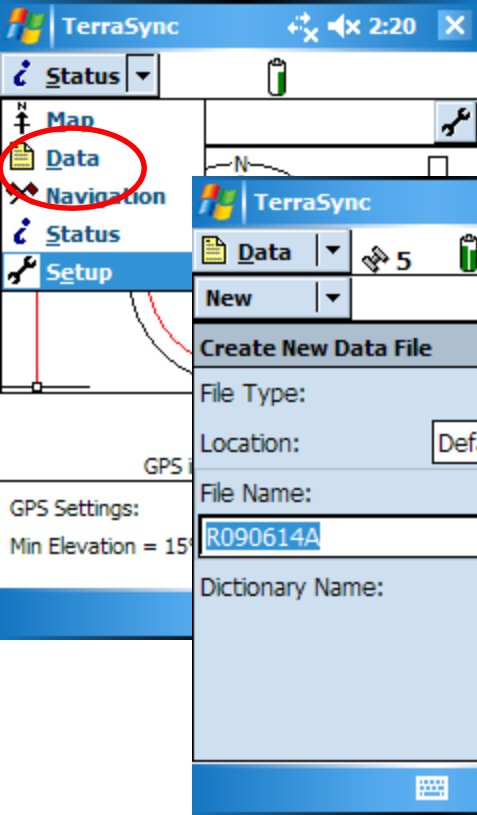






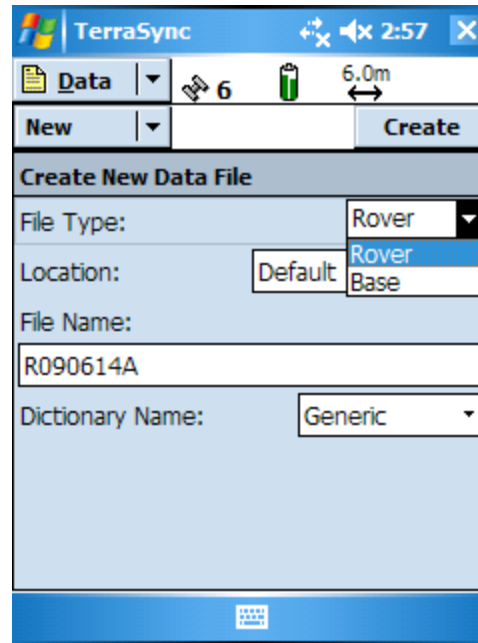
We won't use navigate and map much, but these allow us to set targets to walk to, or show a map of points we've collected, or other data



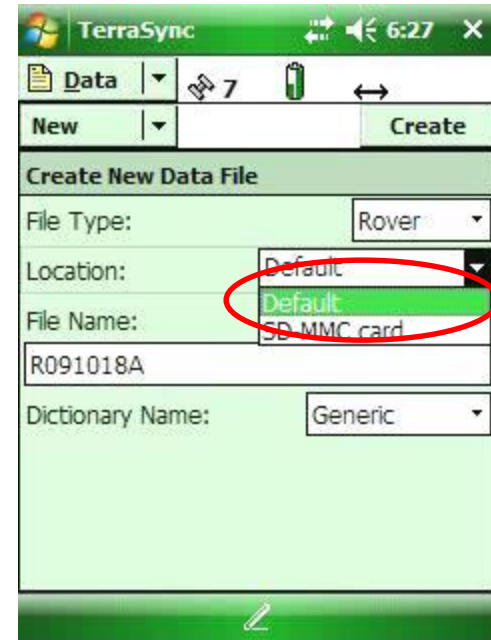


We'll use the data menu to collect new features

Select Rover

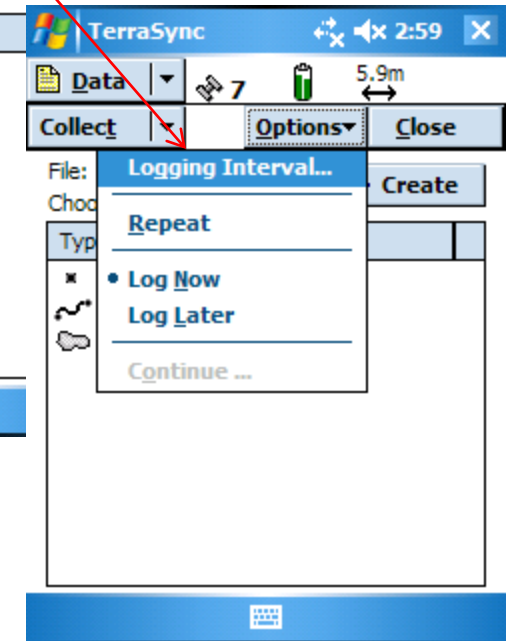
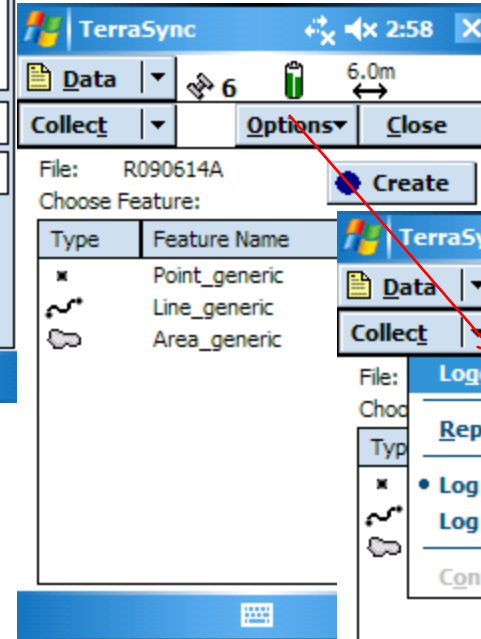
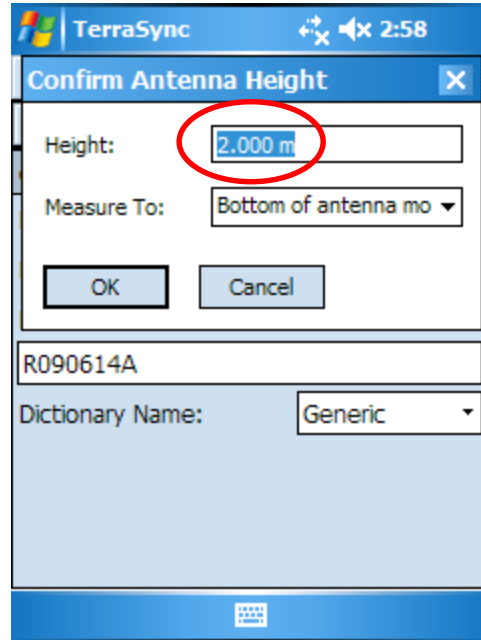
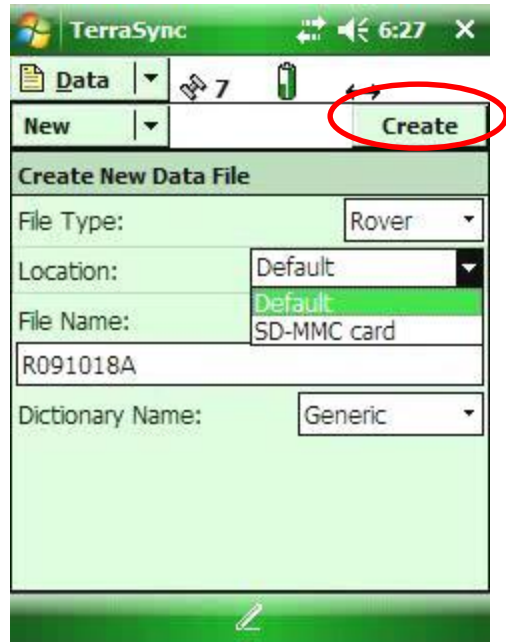


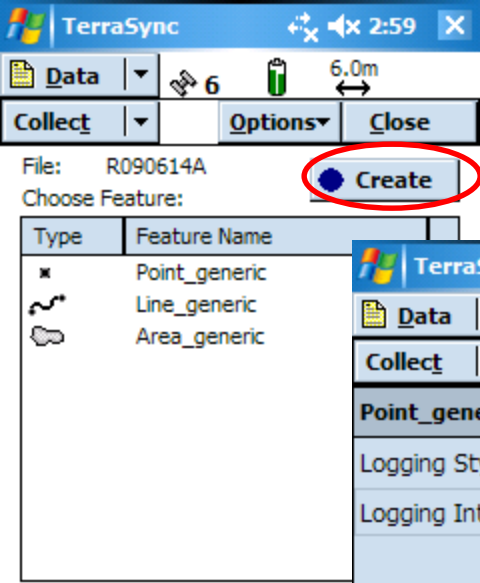
Select Default



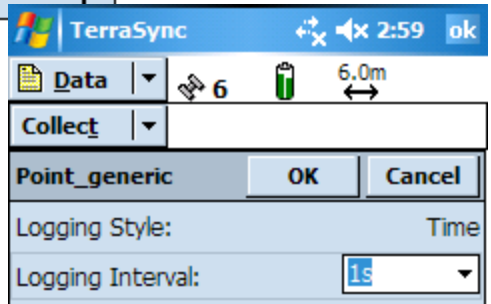
Note: With the Juno SB, data is stored in `\MyDocuments\TerraSync` and should be transferred to Pathfinder Office via ActiveSync (the Juno ST uses the SD-MMC card for data and transfer)

We can do many things, including creating new files, in which we may have to specify the antenna height, and create new features, with various options

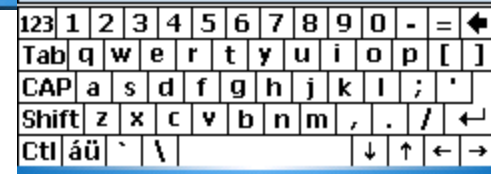
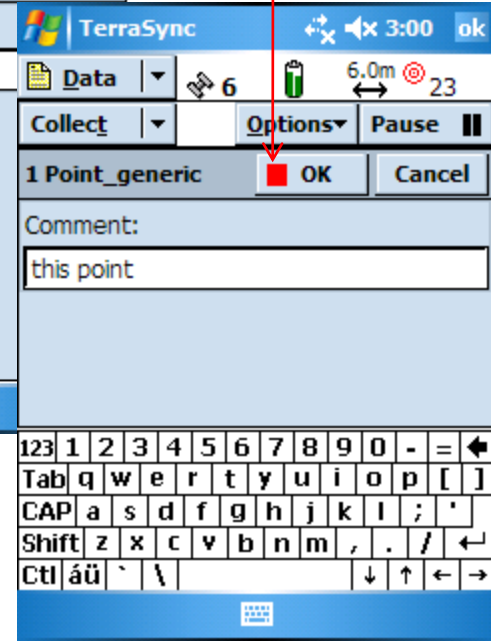
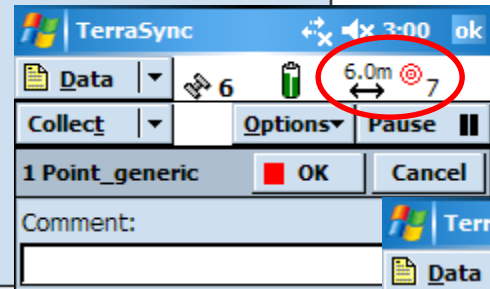




Create a new feature within a file, not the expected accuracy displayed, and number of points incrementing at top left.



OK when you have enough points



Close the
Rover Data
Collection
when you are
finished for the
day

