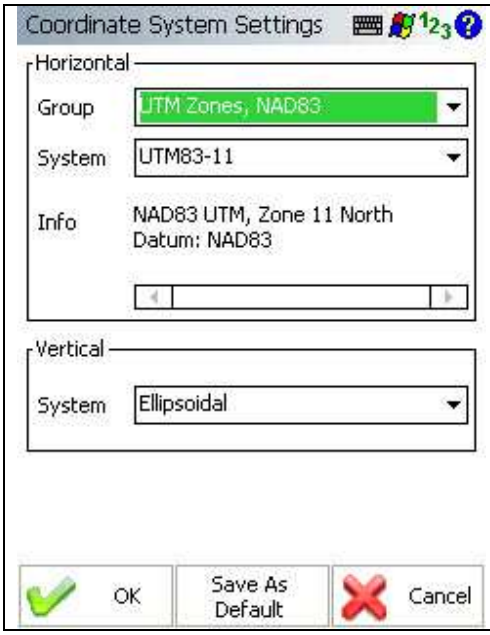
Javad Triumph – Configure Rover NTRIP

You must be using FieldGenius 2010 v4.3.0 or newer.
This document was written using FieldGenius 2010 v4.3.0.7

Coordinate System Settings

Coordinate System Settings



Access this screen by going to Start | Settings | Coordinate Systems.

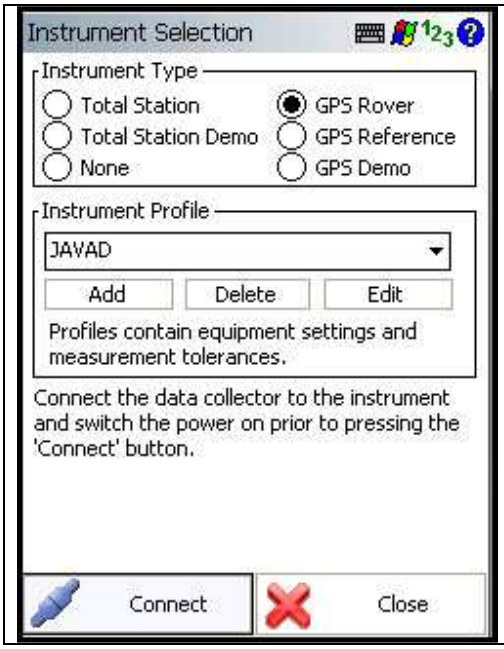
Choose the datum settings for the area the GPS receiver is in. Note: You usually need to extract the grid (geoid) files for your area before using FieldGenius.

To do this, use the Datum Grid Editor that is available on the FieldGenius CD that was shipped with FieldGenius or download it from our Support Helpdesk.

But Ellipsoidal is fine when you are testing.

Instrument Selection Settings

GPS Reference Profile

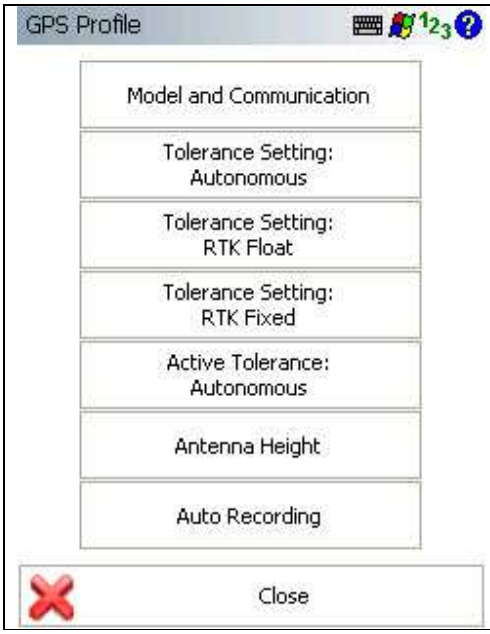


Access this screen by going to Start | Settings | Instrument Selection.

To Add or Edit a GPS Reference profile that you created during your Instrument Profile Setup

You should now press Edit it to access the profile settings.

GPS Profile



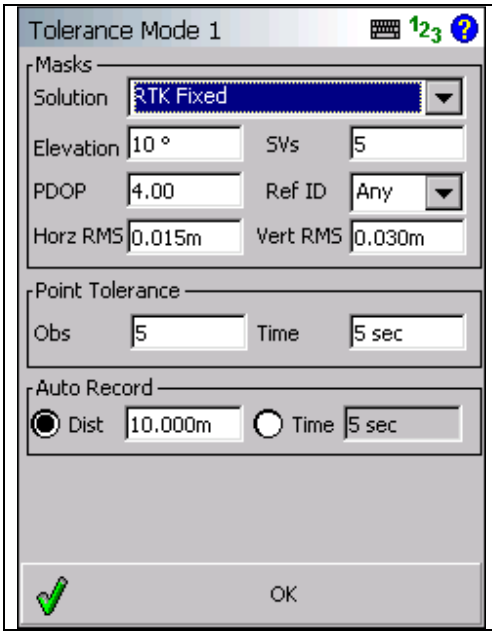
GPS Profile Settings

In the following menus you will be able to setup or modify your Model and Communication settings, the three various Tolerance Setting Modes, your Antenna Height and the Auto recording feature.

You can return to this menu after each individual selection by tapping the “close” button

To begin editing your profile, tap on each of the Tolerance Settings

Tolerance Modes



There are three different tolerance modes that can be set.

Configure the three tolerance modes based on your needs.

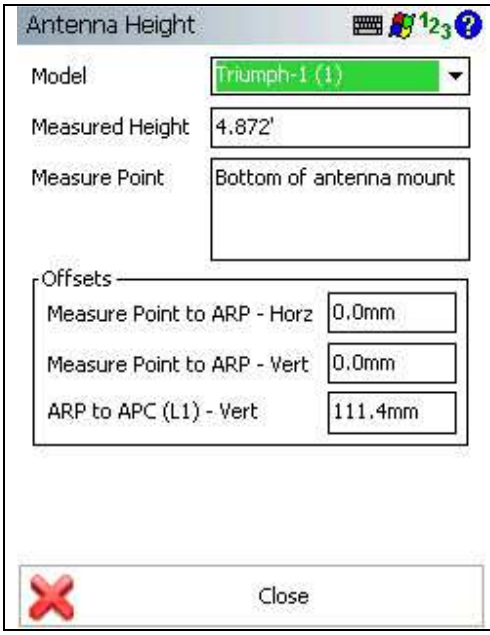
Once connected you can switch between them on the GPS Control menu.

Active Tolerance Mode

Under the Active Tolerance menu you can set the default tolerance mode when you first connect to the rover.

Once connected you can switch between them on the GPS Control menu.

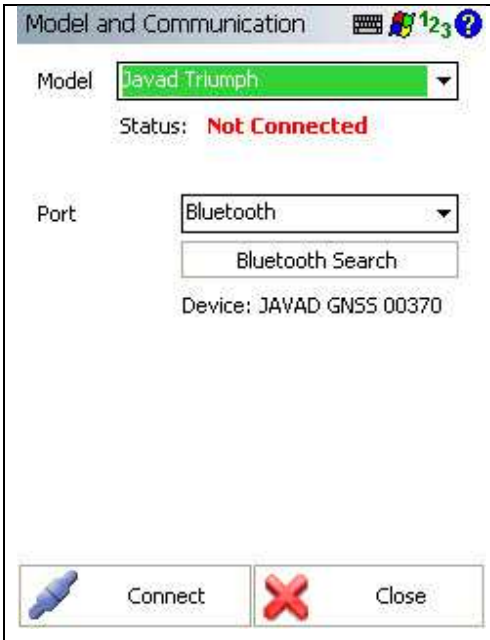
Antenna Height



Select the correct antenna model from the list.

You should always confirm the antenna offsets to those published for your receiver.

Select User Defined to enter your own offsets if required.



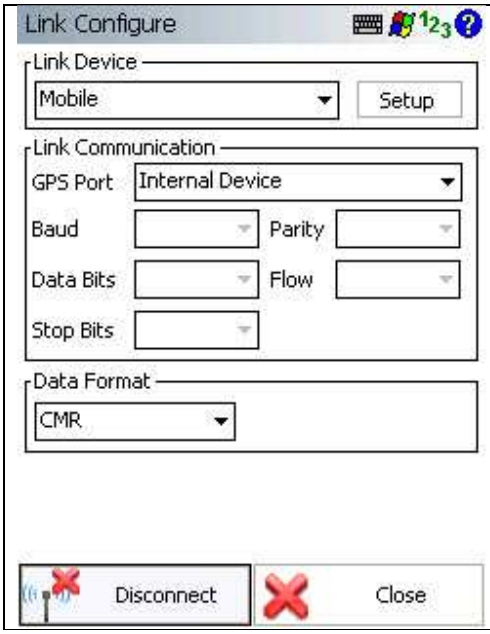
Pick the Javad Triumph from the Model Menu drop down. Choose your desired communications port COM 1 through COM 10 or Bluetooth connection. Consult your instruments setup guide to find out which COM port your device works best with, and match this setting.

Typical serial cable connection will use COM 1.

In this example we're using a Bluetooth connection. If you have not already done so you can initiate a Bluetooth connection search by tapping "Bluetooth Search". This will allow you to find all active devices within connection range.

Choose "Connect" to establish your connection. Once connected it will skip the instrument settings menu below taking you directly into the "Link Configure Menu"

Correction Link



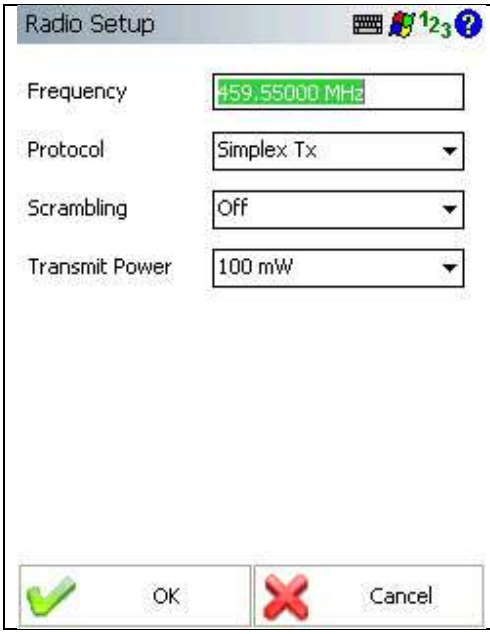
Select Mobile or Radio as your Link Device.

In the GPS Port field select Internal Device to use the Javad internal radio or an appropriate port if you are connecting to an external radio.

See your radio documentation for any further settings in the Link Communication screen.
Set your Data Format to match the message type from your base or link connection.

Press the **Setup** button to set the **Radio Settings** or your mobile **Network Settings**

Radio Settings For a Base/Rover Combination:



Radio Settings

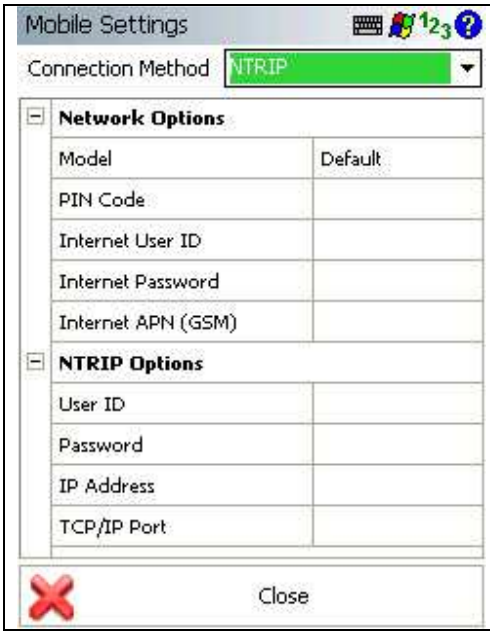
***CRITICAL STEP:** Both the base and rover must be set to the same frequency. Javad range is typically between 406 and 470 MHz

Chose an Rx Protocol for a rover. Javad default is Simplex.

Should you choose to scramble your radio signal you can choose anywhere in the range from 1 to 255

You can adjust your desired radio wattage from the drop down menu as required. Most Javad radios will function in the .3 to 1w range

Network Settings – NTRIP



Network Settings NTRIP

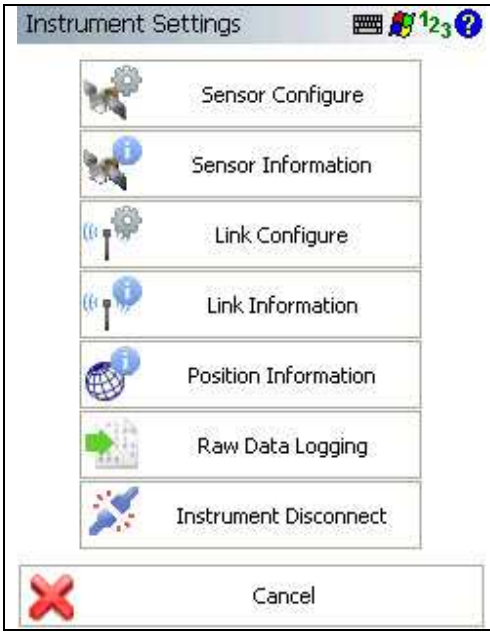
If you choose “mobile” under the link device in your Link Configuration menu and click Setup you will find this menu.

Select NTRIP as the Connection Method at the top of the screen.

Under Network Options, enter the login information which is used to connect your modem to the internet.

If you have a password it can be entered in the UserID2 field.

(If required, scroll down so you do not miss any settings further down the page).



 You can access the Link Configuration menu from the “Instrument Settings” Icon on the Map Screen

Note: most of the following menus can only be accessed once you’ve connected to your instrument.

From this menu you will be able to affect all of your Modem and Radio configurations/settings

- Tap on the “Link Configure” menu to begin.

