



Penmap – Setting up a Trimble R1 receiver

How to setup and configure a Trimble R1 receiver on an Android with Penmap





Setting up a Trimble R1 receiver

Summary

This document aims to provide a quick guide on how to setup a Trimble R1 GNSS receiver with an Android device using Penmap.



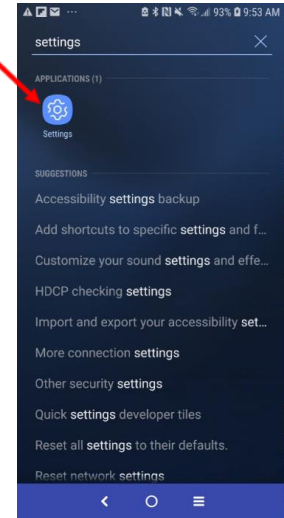
Setting up a Trimble R1 receiver

Steps...

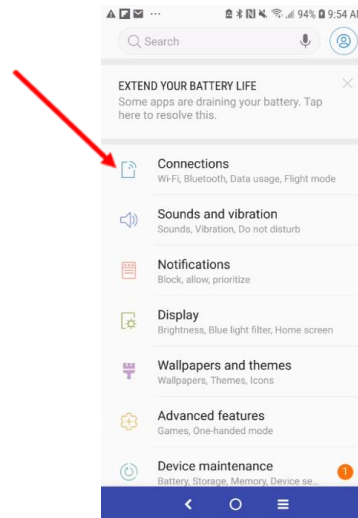
1. First you will need to pair the Trimble R1 to the Android device via Bluetooth. To do this, hold the **'Power'** button on the R1 receiver for *5 seconds* until the LED lights flash blue continuously.
2. Next, on the Android device, go into **'Settings'**.
3. Then go to **'Connections'**.
4. Then go into **'Bluetooth'**



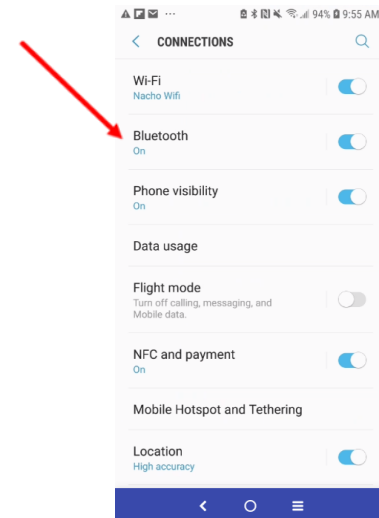
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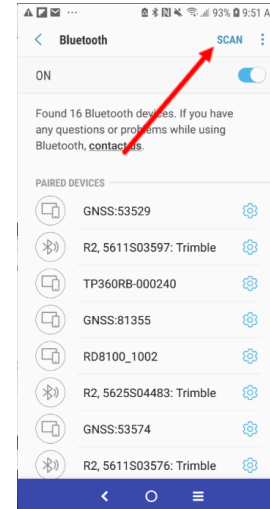
Setting up a Trimble R1 receiver

Steps con't...

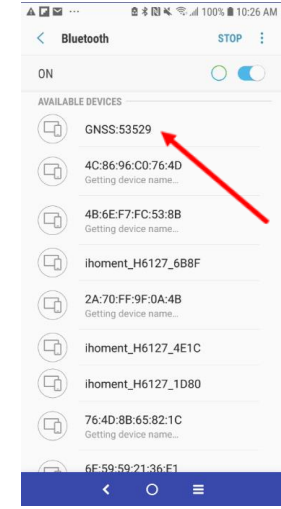
5. In the Bluetooth settings, and while the Trimble R1 is still in *'pairing mode'*, press *'Scan'* on the top-right of the screen to search for the R1 device.
6. Under *'Available Devices'*, select the *'GNSS: #####'*, where the 5 digits in the name are the last 5 digits in the R1's serial number.
7. Once connected, you will see the *'GNSS: #####'* under the *'Paired Devices'* heading.

Next, open Trimble Penmap on the Android device...

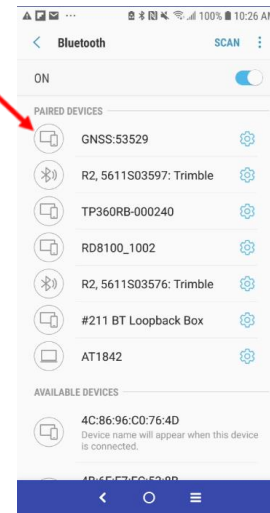
8. Now, with Penmap open on the Android device, click on the *'Add'* button to start a new project.



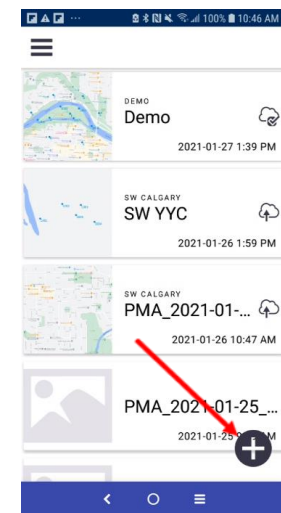
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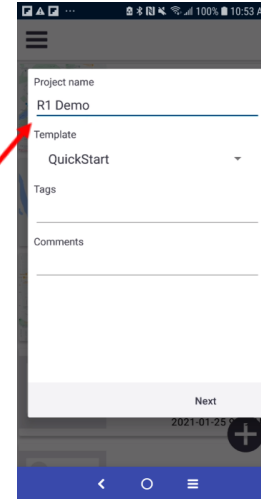
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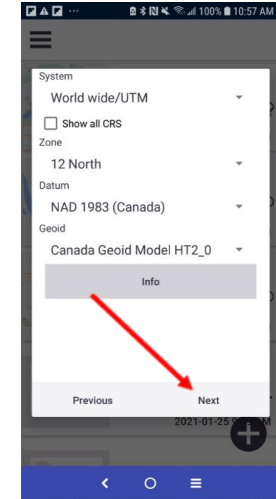
Setting up a Trimble R1 receiver

Steps con't...

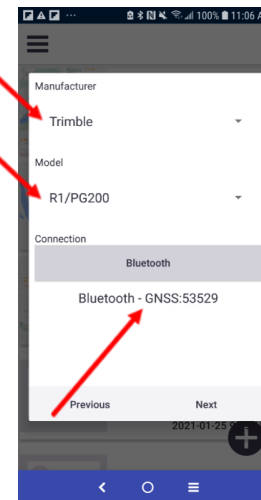
9. Give the *new project a name* and select a *template* by clicking on the *dropdown arrow* on the right, then press **'Next'**.
10. Choose the *Coordinate System* as desired by clicking on the *dropdown arrows*, then press **'Next'**.
11. Next, select the Trimble R1 unit under *Manufacturer, Model and Connection* headings by using the *dropdown arrows*, as seen in *Step 11*, then press **'Next'**.
12. In the *Service Name* window, click on **'New'** to set the *Service Type*.



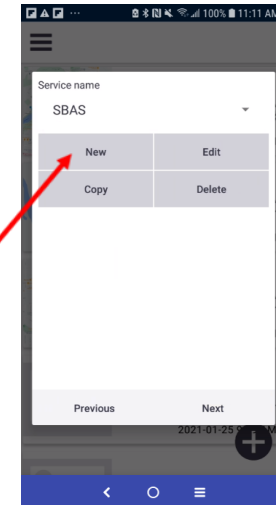
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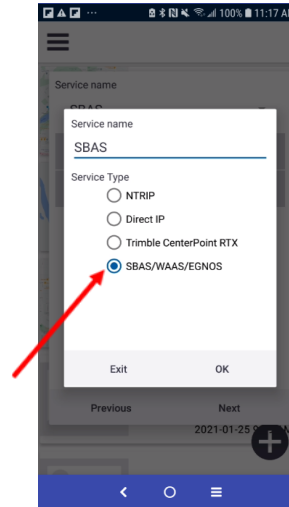
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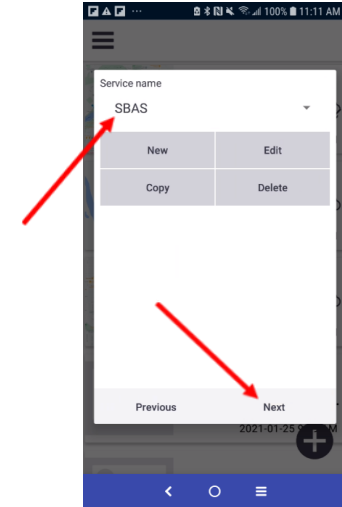
Setting up a Trimble R1 receiver

Steps con't...

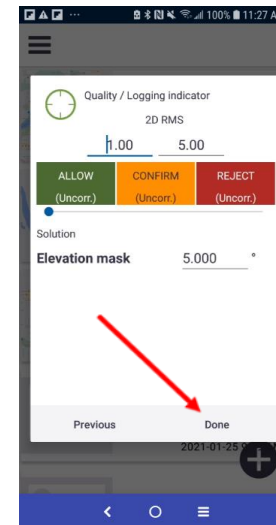
- For the R1 receiver, click the **'SBAS/WASS/EGNOS'** option as this device is a sub-meter unit, then press **'OK'**.
- Give the new *Service Type* a name, then press **'Next'**.
- Set the *Quality/Logging indicator* as desired, in this example I'm using the *default settings'* of **1 & 5 metres**. For the *Elevation Mask*, I am also using the default setting of **5 degrees**. Next press **'Done'**.
- Once the new project opens, select the *dropdown arrow* and shown in **Step 16**.



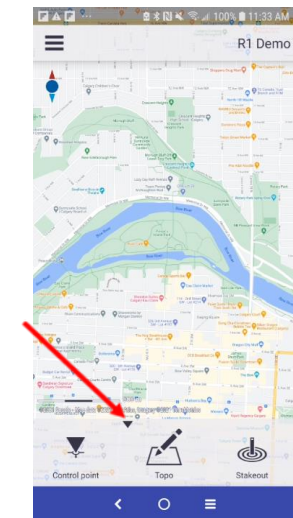
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Setting up a Trimble R1 receiver

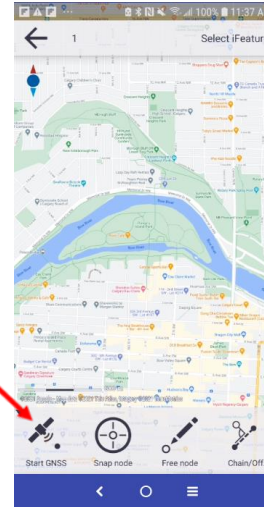
Steps con't...

17. Next, press the **'Start GNSS'** icon on the bottom-left of the screen.

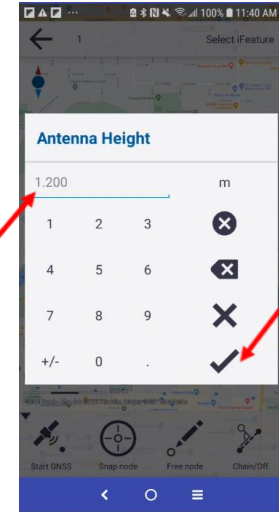
18. Type in the *Antenna Height* as desired, then press the **'✓'** button.

19. A window indicating the *Trimble R1 is connecting* then the *GNSS Skyplot* screen will prompt once connected.

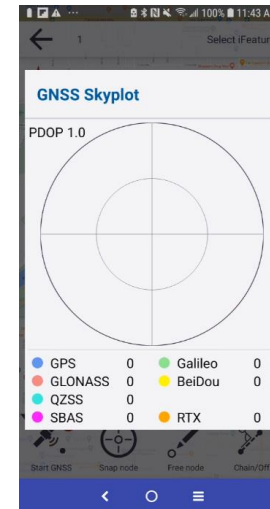
You have now successfully paired and configured your Trimble R1 receiver with an Android device using Penmap!



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