

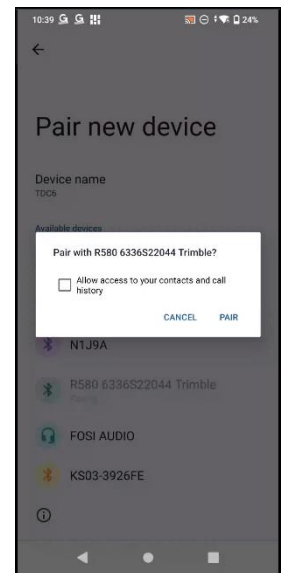
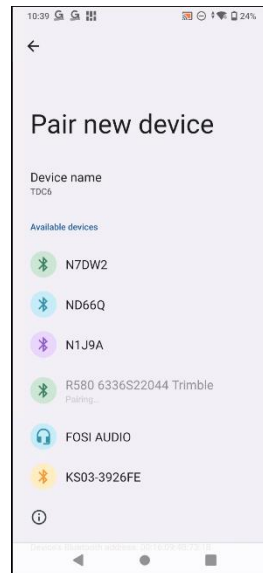
Configure Trimble R580 in Mobile Manager on Android for MS GCGC realtime (10/24)

Download App

- Connect your handheld to an internet source using the Wi-Fi settings in the settings menu
- Go to Play store
- Install the Trimble Mobile Manager (TMM) App

Connecting via Bluetooth to Trimble R580 GNSS receiver

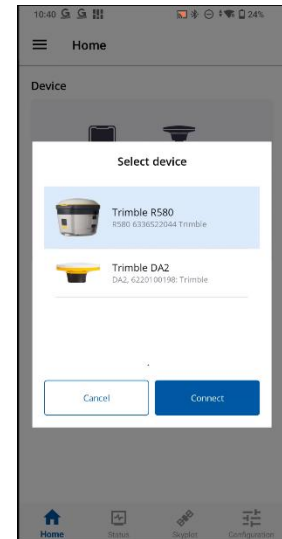
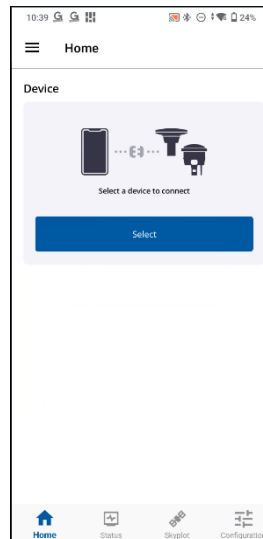
- Power up the Trimble R580
- Go into the mobile device Bluetooth settings and make sure Bluetooth is On
- Choose Pair new device
- The Trimble R580 should show in the under “Available devices” along with the serial number. Click on it to Pair, then click on Pair to finish the process.
- Once completed the R580 will show up under Connected or Previously Connected devices



Configure Trimble Mobile Manger (TMM)

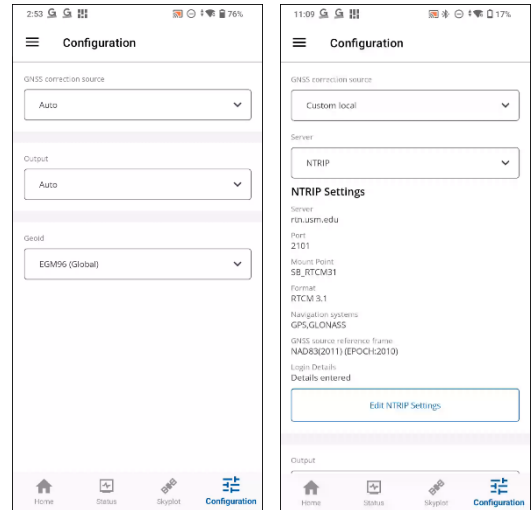
Connect to Trimble R580

- Run TMM
- On Home Screen, choose **Select**
- Choose your Trimble R580 to highlight it, then click on Connect
- Once connected the application will show battery life, number of satellites, horizontal & vertical accuracy, and real-time accuracy



Configuring real-time and output

- The configuration menu is in the bottom righthand corner of the application screen
- **GNSS Correction Source:** There are 2 options, **Auto or Custom local**
 - Use AUTO for SBAS, RTX satellite or RTX Internet
 - Use Custom local when inputting your own base station or a local VRS
 - Choose **Custom Local** to setup MS GCGC RTN
 - **Server:** NTRIP
 - Select **Edit NTRIP Settings**
 - Create a [GCGC account](#)
 - **Server Settings:** *rtn.usm.edu*
 - **Port:** 2101
 - **Mount Point:** for public use you need to use SB_RTCM3.1
 - **Login Details:**
 - **Username:**
 - **Password:**
 - **GNSS source reference frame:** NAD83 (2011) (Epoch 2010)
 - Choose **Save and Close**



Note* real time correction may require an internet connection/cell signal) If you are not connected to an internet source, select Auto and your unit should revert to SBAS or RTX Satellite (if purchased).

Output

- Options are **Auto or Select from list.**
- Choose **Select from list**

GNSS Output

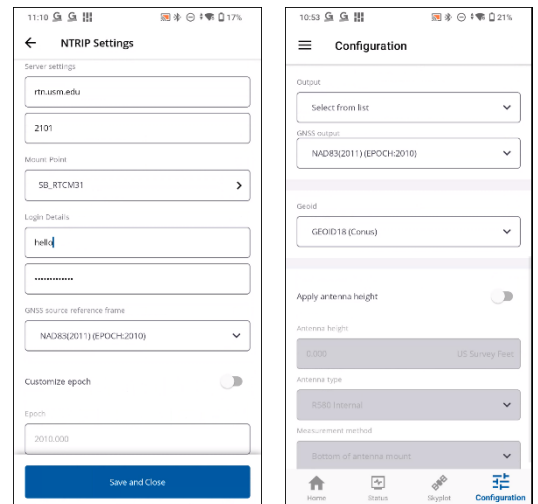
- Set it to **NAD83 (2011) (EPOCH 2010)**

Geoid

- Set the Geoid to **GEOID18 (Conus)**

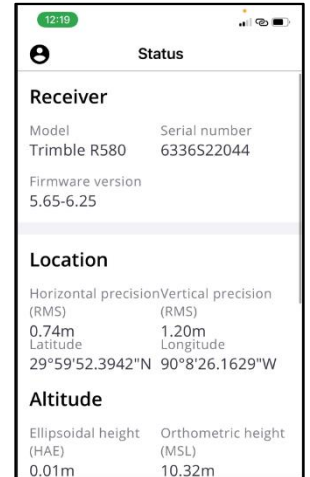
Apply Antenna Height

- Only turn this on if you are using apps other than Trimble TerraFlex, Esri Field Maps, or ones that don't have the option for you to enter an antenna height.
- Setup units and antenna height as needed.



Test the R580 and real-time corrections in Trimble Mobile Manager

- Take the Trimble 580 outside in an open sky location
- Run the Trimble Mobile Manager app.
 - On the TMM home screen ensure that your Trimble R580 is connected
 - Verify that you are tracking satellites.
 - You will need at least 4 satellites to display a position.
 - Note, some real-time corrections may require access to the internet.
- Choose the **Status icon** in the bottom middle of the application screen
 - **Receiver**
 - This will show you Model, Serial Number and Firmware version
 - **Location**
 - This will display horizontal & vertical accuracies along with Latitude/Longitude Coordinates
 - Precisions will depend upon the Trimble Receiver and Accuracy option that you have
 - Precisions will depend on # of satellites, dop values, antenna field of view, etc.
 - **Altitude**
 - This will display HAE and MSL heights depending on your Geoid Model settings configured previously
 - **Correction Status**
 - This will display Position Status, GNSS Correction Status, Geoid model in use, and GNSS Output Reference frame.
 - **Satellites**
 - This displays the GNSS constellations your are tracking and ones that your GNSS receiver is currently using



The screenshot shows the 'Satellites' screen of the Trimble Mobile Manager app. It displays a table of tracked satellites:

	In-use	Tracked:
Total	20	22
GPS	7	7
GLONASS	3	3
Galileo	5	5
BeiDou	5	5
Trimble RTX	0	1
SBAS	0	1
QZSS	0	0
IRNSS	0	0

Below the table, there is a 'Details' link with a right-pointing arrow.

Normal Receiver – 3rd party app workflow once configured

- Power on the Trimble R580 and the Mobile Device
- Make sure the R580 connects to Bluetooth
- You should start all projects in the most wide-open area in your vicinity (no or limited overhead obstructions). This will ensure that your GPS unit can achieve its best accuracy.
- Run TMM and make sure the GPS tracks satellites and receives corrections
- Leave TMM running, minimize, and run the 3rd party app
- Collect data

Normal Receiver – esri Field Maps workflow once configured

- Power on the Trimble R580 and the Mobile Device
- You should start all projects in the most wide-open area in your vicinity (no or limited overhead obstructions). This will ensure that your GPS unit can achieve its best accuracy.
- Run esri Field Maps
- Collect data

If you have questions please feel free to reach out to NEI at our Lafayette headquarters at 800-949-1446.