

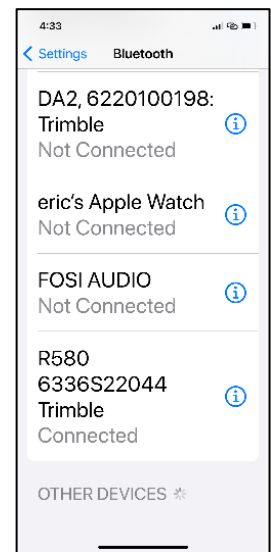
Configure Trimble R580 in Trimble Mobile Manager on iOS (8/24)

Download App

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

Connecting via Bluetooth to Trimble R580 GNSS receiver

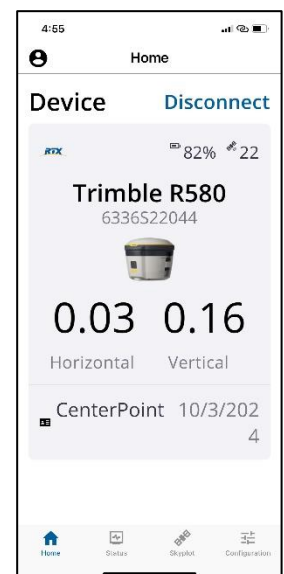
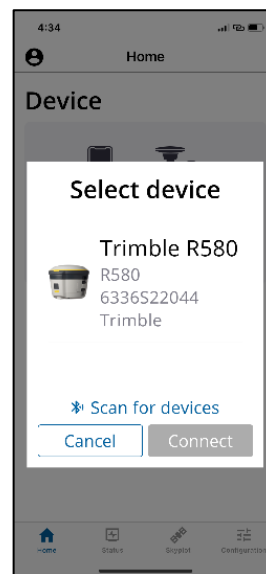
- Power up the Trimble R580
- Go into the mobile device Bluetooth settings and make sure Bluetooth is On
- The Trimble R580 should show in the under “other devices” along with the serial number. Click on it to Connect



Configure Trimble Mobile Manger (TMM)

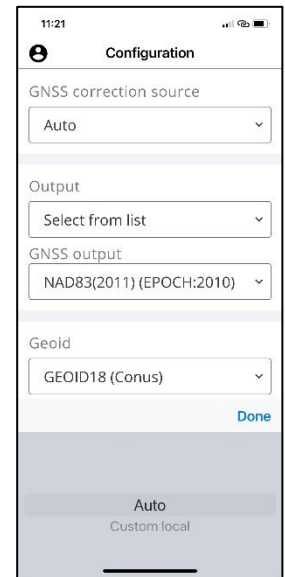
Connect to Trimble R580

- 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 located 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



Output

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

GNSS Output

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

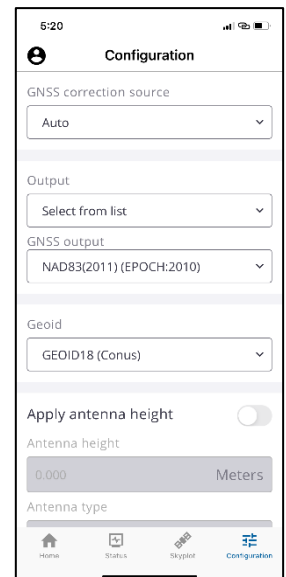
Geoid

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

(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).

Apply Antenna Height

- Only turn this on if you are using apps other than Trimble TerraFlex or 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

Receiver	
Model	Serial number
Trimble R580	6336522044
Firmware version	
5.65-6.25	
Location	
Horizontal precision (RMS)	Vertical precision (RMS)
0.74m	1.20m
Latitude	Longitude
29°59'52.3942"N	90°8'26.1629"W
Altitude	
Ellipsoidal height (HAE)	Orthometric height (MSL)
0.01m	10.32m

Correction Status	
Position status	GNSS Correction Status
RTX	9s; 325B/s
Geoid model	
GEOID18 (Conus)	
GNSS output reference frame	
NAD83(2011) (EPOCH:2010); 2010.00; EPSG1116	

	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

Details >

Home Status Skyplot Configuration

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

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