

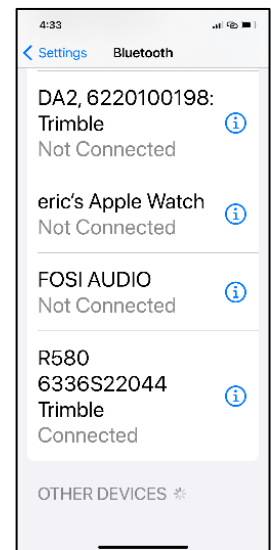
Configure Trimble R580 in Trimble Mobile Manager on iOS for use in esri Field Maps (8/24)

Downloading Apps

- 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
- Install the ArcGIS Field Maps App
- Restart your device

Connecting via Bluetooth to Trimble R580 GNSS receiver

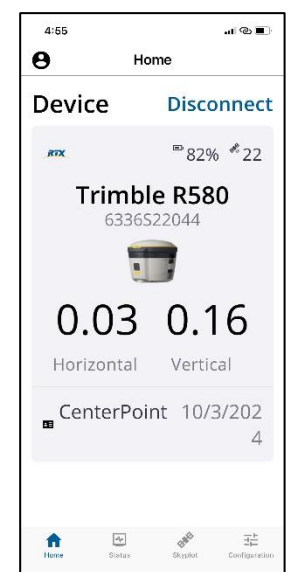
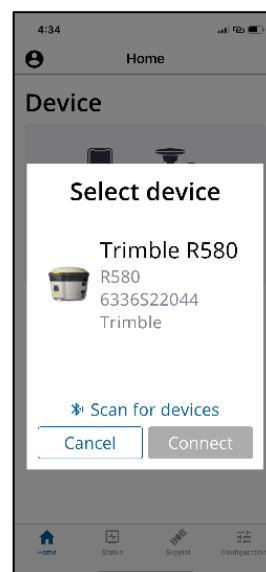
- Power up the Trimble R580
- Go into the mobile device Bluetooth settings and make sure Bluetooth is On
- The Trimble R580 should show in the under “other devices” along with the serial number. Click on it to Connect
- Once connected you can close out of Bluetooth settings



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

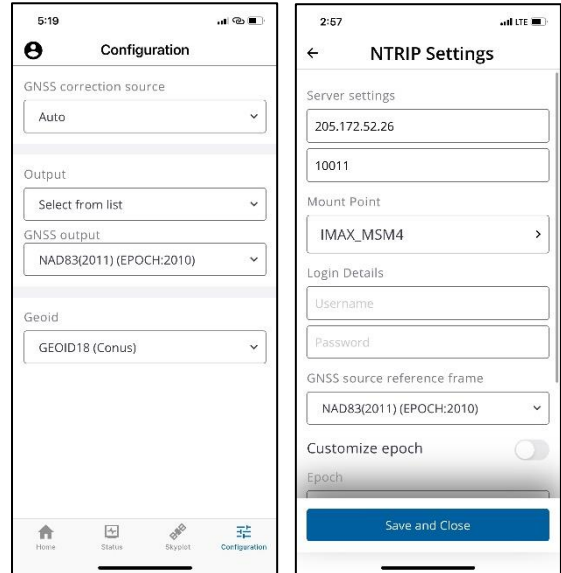


Configuring real-time and output

- 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
- Use **Custom Local for ALDOT RTN**
 - Create an account with [ALDOT](#)
 - Server: **Ntrip**
 - Server Settings: **205.172.52.26**
 - Port: **10011**
 - Mount Point: **Pick what best suits you. We recommend IMAX_MSM4**
 - Login Details: **Enter your Username & password**
 - GNSS Source Reference Frame: **NAD83 (2011) Epoch 2010**
 - Click on **Save and Close**



Output

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

GNSS Output

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

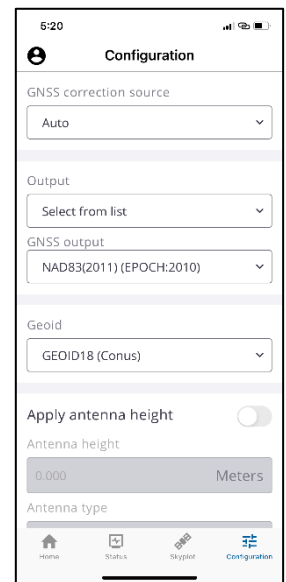
Geoid

- Set the Geoid to **GEOID18 (Conus)**
- This is for calculating Elevations like Mean Sea Level (MSL)

(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.




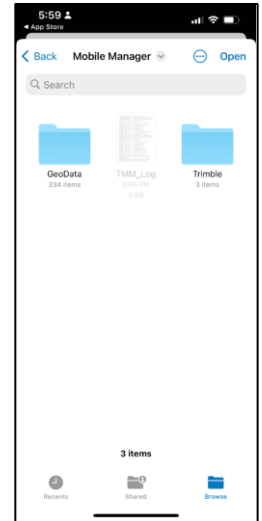
Once this is all configured you will close the Mobile Manager app. You will **Not** run TMM again for use with esri Field Maps. If you do, you will have GPS connection issues in Field Maps.

Open the Field Maps app

- Sign into your account

Configure Location Provider

- Click on the Profile icon  at the top left of the application
- Scroll down to Location
- Choose Provider
- Collect Add. Choose your Trimble R580 receiver and type in the height of your antenna pole. Click Done
- Integrated & your Trimble R580 receiver should be listed. Click on your Trimble R2 receiver to make it current/active.
- The first time you configure a Trimble GNSS receiver (DA2, R2, R580, R12) field mpas will ask the user to browse to the Trimble Mobile Manager folder. When you navigate to the files you should see the 'Mobile Manager' folder, click once on that, that's as far as you need to go in the selection, then select 'Open' as per this image An action window will pop up. That reads "Mobile Manager Required. Browse to the Trimble Mobile Manager folder to use your device". Click browse. Choose the Trimble Mobile Manager folder and then click done. You should only have to do once per Trimble receiver connected to your device.



We have seen from iOS 16 (iPadOS 16) that the default folder for the Files app can be the iCloud Drive folder, if this happens you will need to select Browse, then select 'On My iPhone' or 'On My iPad' to see your app folders. Another option is to use the search feature and type in "mobile manager".

- TMM will briefly pop up and disappear. Your Trimble R580 receiver will now have a check mark next to it.

Configure Location Profile *(If you are using SBAS you can select default and skip this section)*

- Scroll down to Location
- Choose Profile
- Click on Add a profile
- *GNSS Coordinate System* - Click on magnifying glass and type in *2011*, click on search, and choose GCS NAD 1983 2011 (6318). Click on Next
- *Map Coordinate System* - Click on search, type in *web*, choose WGS 1984 Web Mercator Auxiliary Sphere (3857).
(Note, if you pick WGS 1984 web Mercator the GPS will not Work) Click on Next
- *Area for Collection* - Click on the icon in top right corner of the map and this will auto zoom to your location or zoom into your area for collection. Click on Next
- *Horizontal Datum Transformation* - Choose *~WGS_1984_(ITRF08)_To_NAD_1983_2011*. Click on Next
- Give your Profile a name and click on ADD
- Set the new profile as CURRENT by clicking on it then Choose the back button



Configure any other settings you may need

- Accuracy
- Streaming
- Photo upload size
- Units

Normal Receiver – Field Maps workflow once configured

- Power on the Trimble R580 and the Mobile Device (iPad)
- Go into iOS settings and make sure the Trimble R2 is connected 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.
- Open Field Maps. TMM will briefly be shown on screen then minimize itself.
- Ensure your Trimble R580 receiver is selected under provider.
- Open the map/project you would like to work within
- Your GPS accuracy will be shown at the top of the map
- Collect data

Tips & Tricks for Trimble Mobile Manager

- When switching between Auto (SBAS) and Custom Local (VRSnow) within the GNSS Configuration options you must slide the Connect to Position Source to off on the home screen. Once you turn it off then go into GNSS Configuration and select the configuration that you would like to use. After that, slide the Position Source back to on and proceed as normal.
- Sign into Trimble Mobile Manager when you know that you have internet connection. If you get to a location without an internet connection and try to sign into TMM it will not work.

Please feel free to reach out to NEI at our Lafayette headquarters at 800-949-1446 if you have any questions.