Pairing the Asteri GNSS receiver to ESRI Field Maps on iOS

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Table of Contents

Recommended Reading

- Pairing the Asteri

# Pairing the Asteri GNSS receiver to ESRI Field Maps on iOS

Device and Software versions used:

- Asteri X4i GNSS Receiver
- iPad Pro
- iOS version 18.3.2
- ESRI Field Maps app version 25.1.0

Initial Pairing to the iOS device

1. Turn on the Asteri receiver and place in clear view of the sky before you begin pairing to your iOS device.
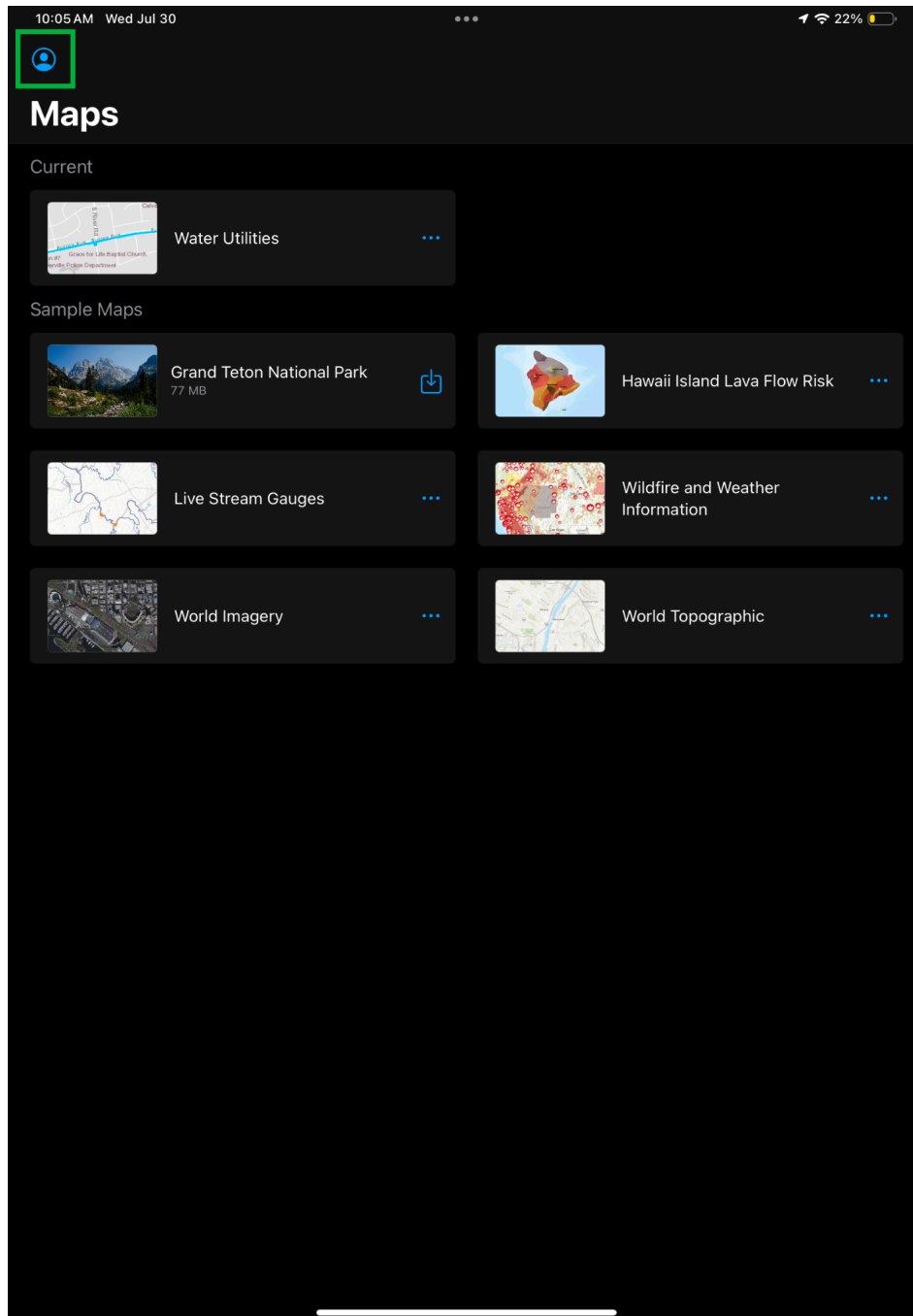
2. On your iOS device go into the **MAIN SETTINGS** and ensure Bluetooth is **ON**.
3. Look for "**ASTERI-(last 4 digits of the serial number)**" in the list of Available Devices, and select it to connect.
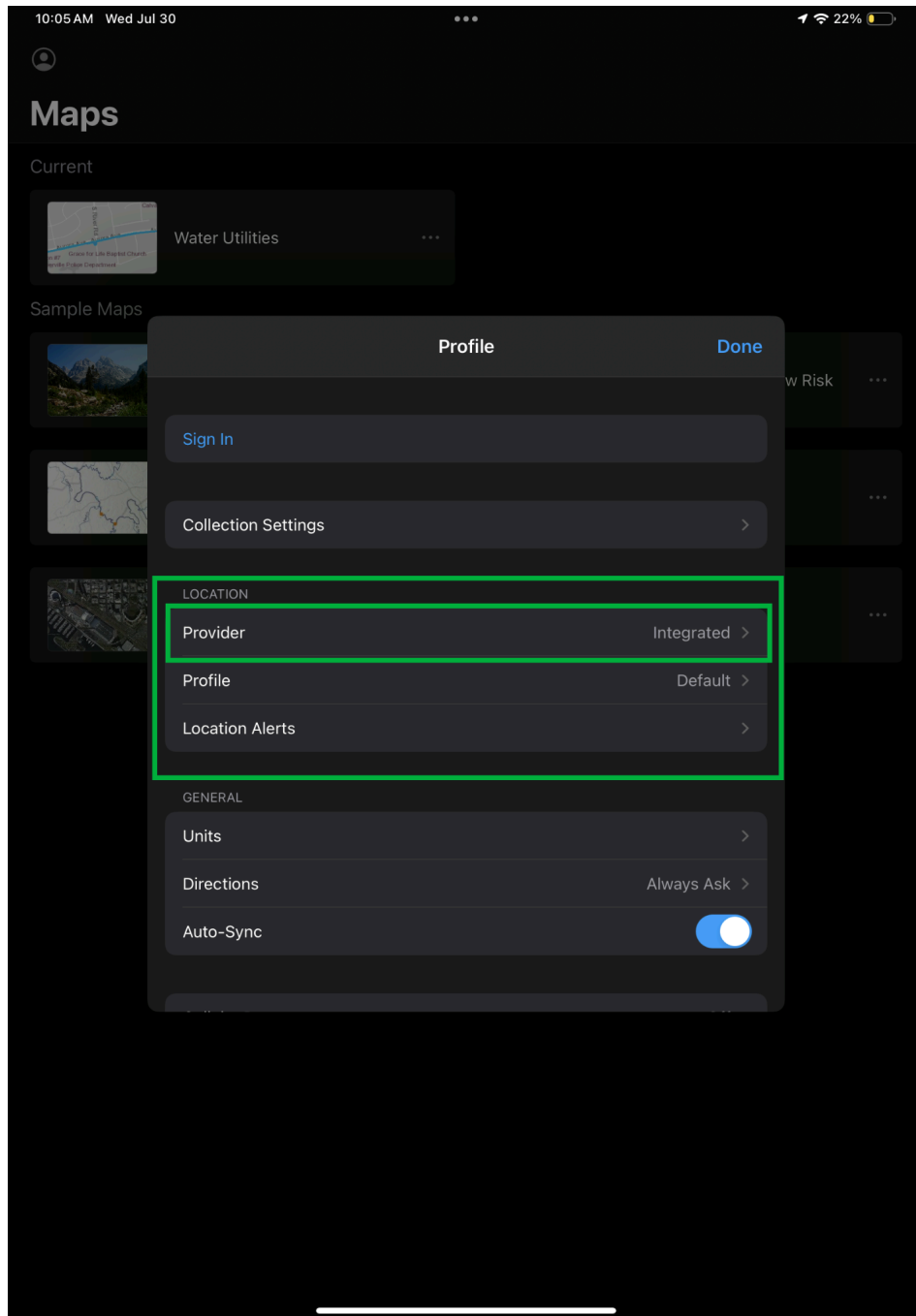4. It should now say "**CONNECTED**" next to the receiver name.
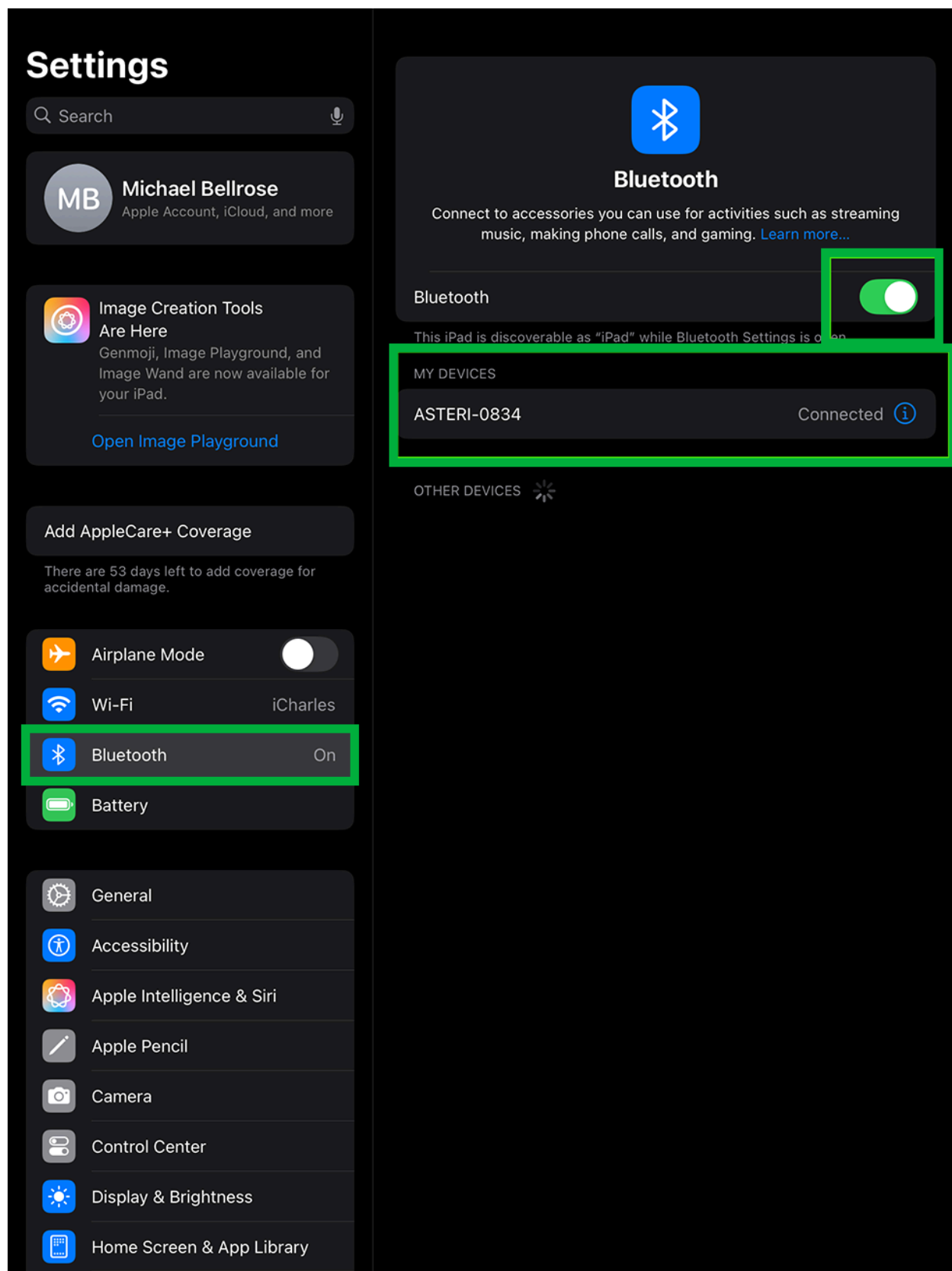
General Settings menu on an iOS device showing Bluetooth is on and the Asteri device is connected.
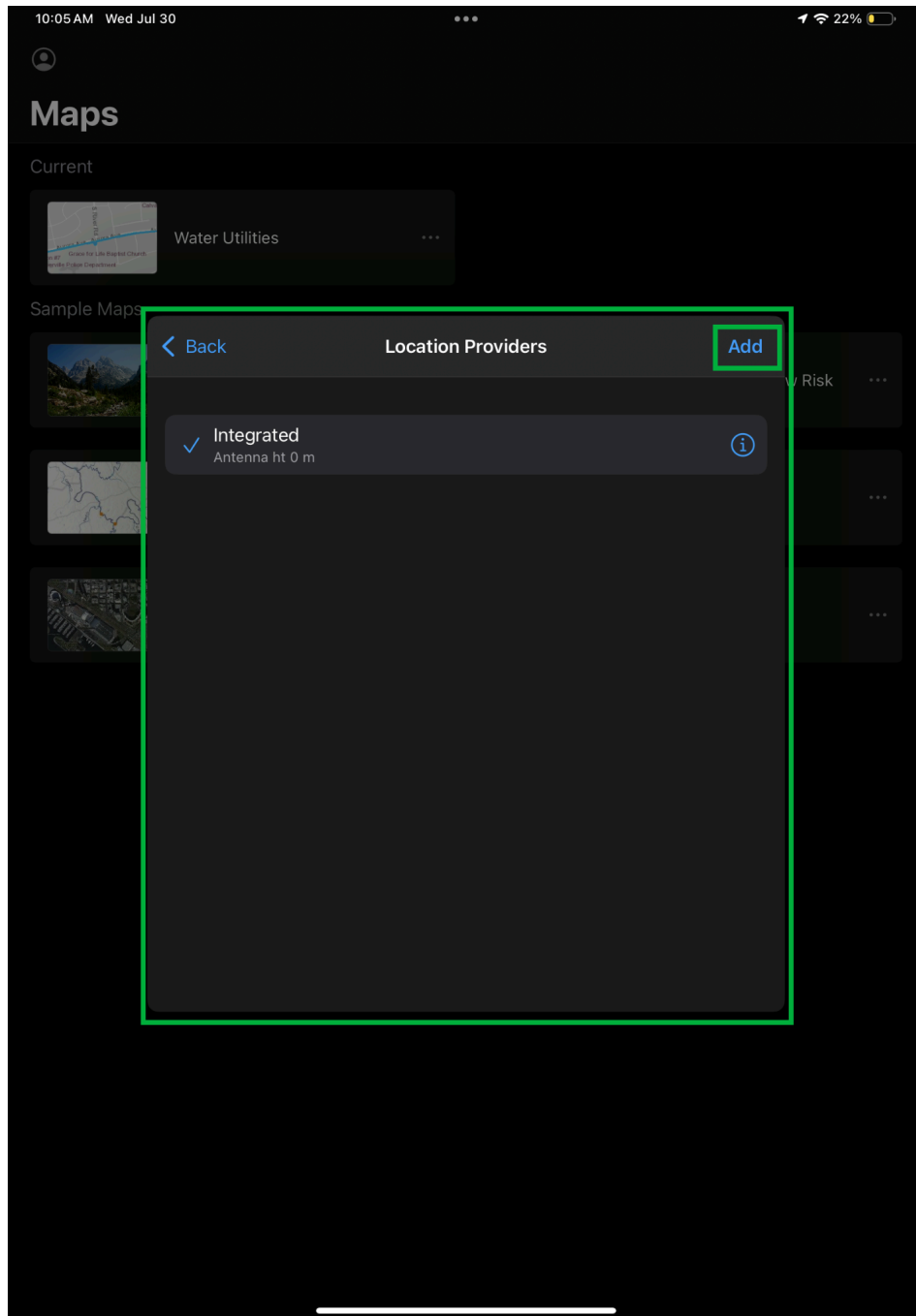
Utilizing Asteri GNSS to ESRI Field Maps

1. Launch the Field Maps app on your iOS device and sign in if required.
2. Click on the Profile icon in the upper left corner and select **PROVIDER** in the **LOCATION SETTINGS** section
3. Click **ADD**
4. The Asteri should be listed, click **ADD** next to *Asteri Navigation #********* (full serial number displayed)
5. Adjust antenna height if you are using an external antenna and pole mount.
6. Click **DONE** to add.
7. Select the *Asteri Navigation #********* as the provider, and click **BACK**.
8. Click **DONE** to get out of the profile screen.
9. Open your map to begin collection of data as normal

Accessing the Options menu to connect the Asteri GNSS device for use within ESRI Field Maps on iOS

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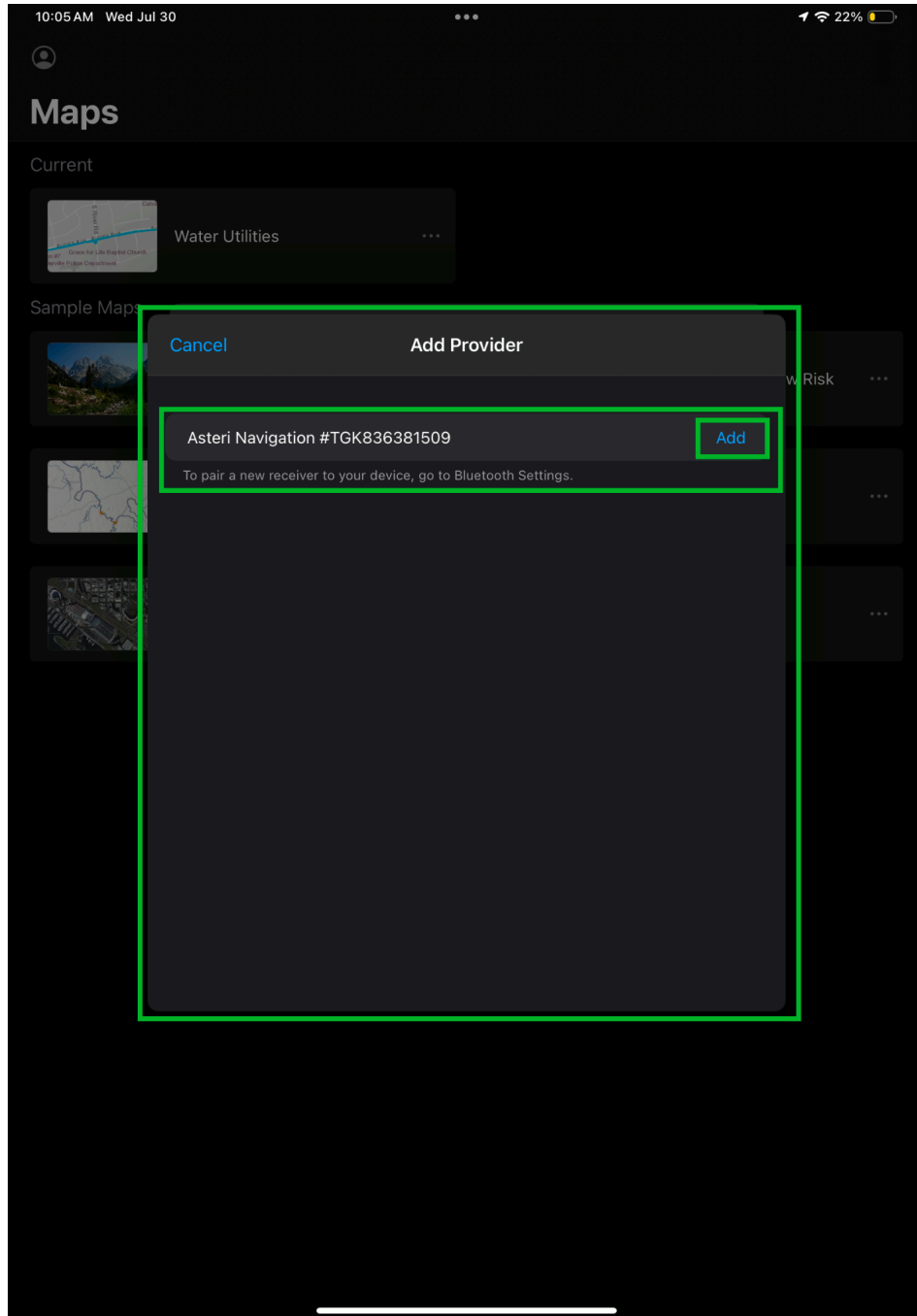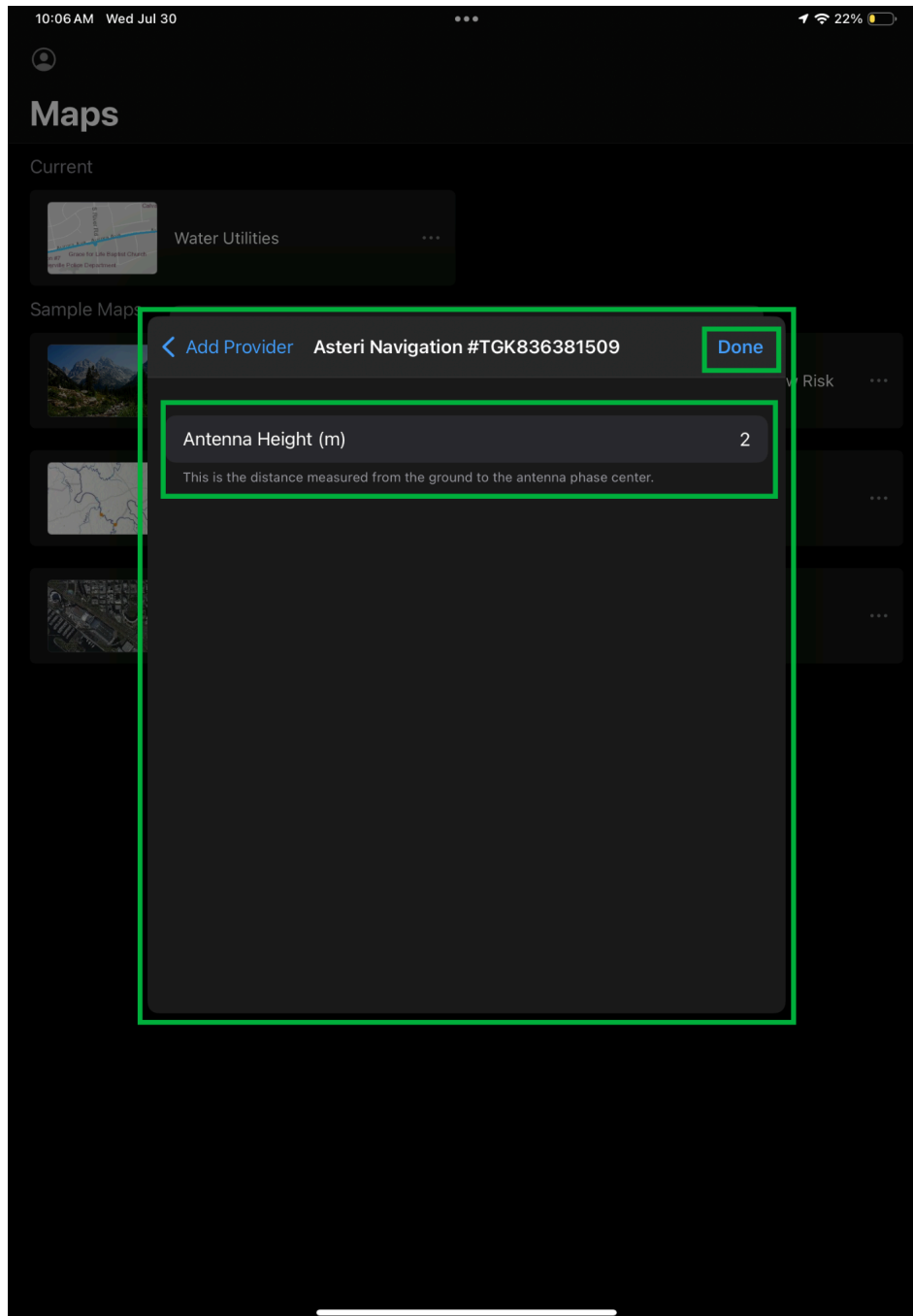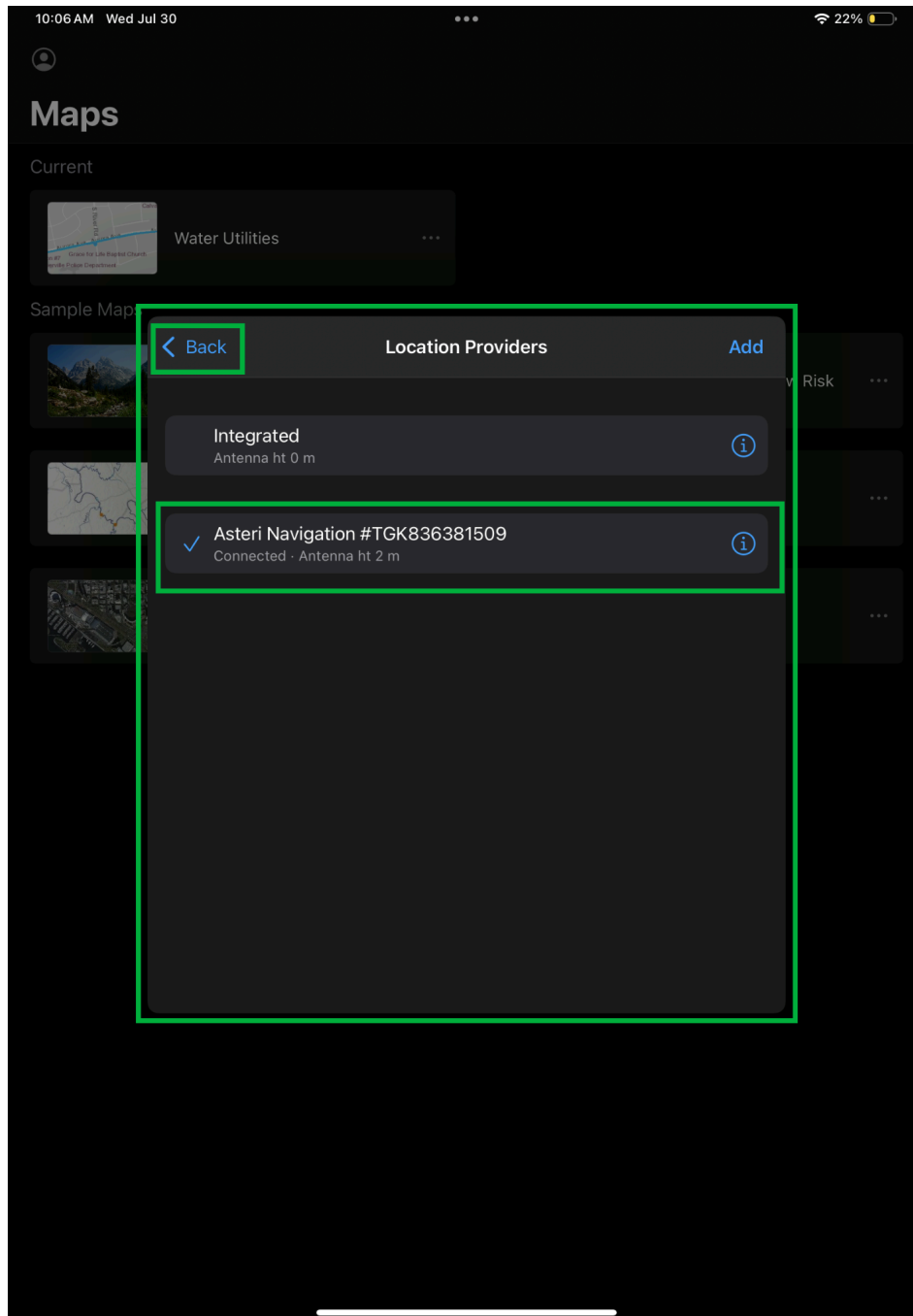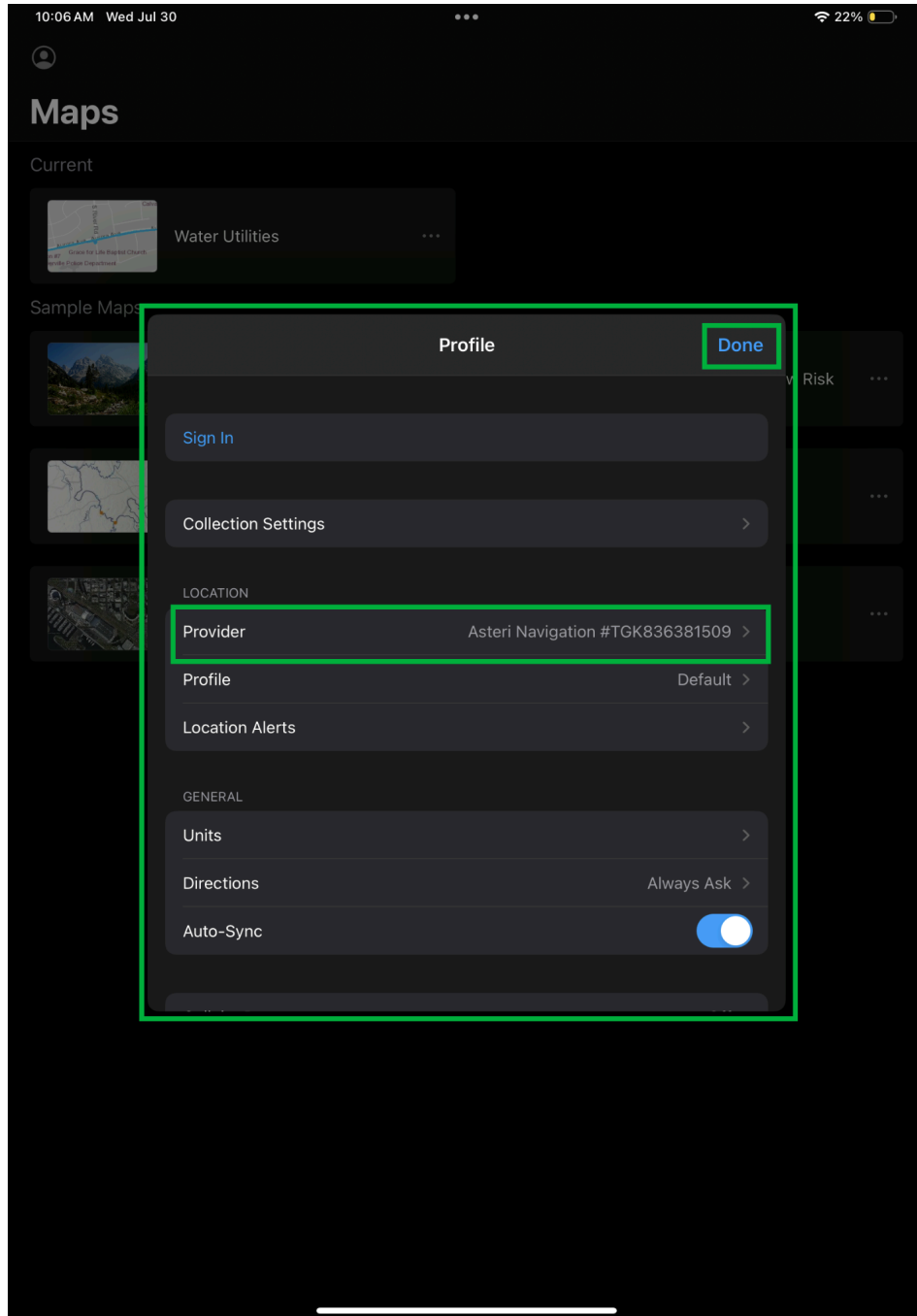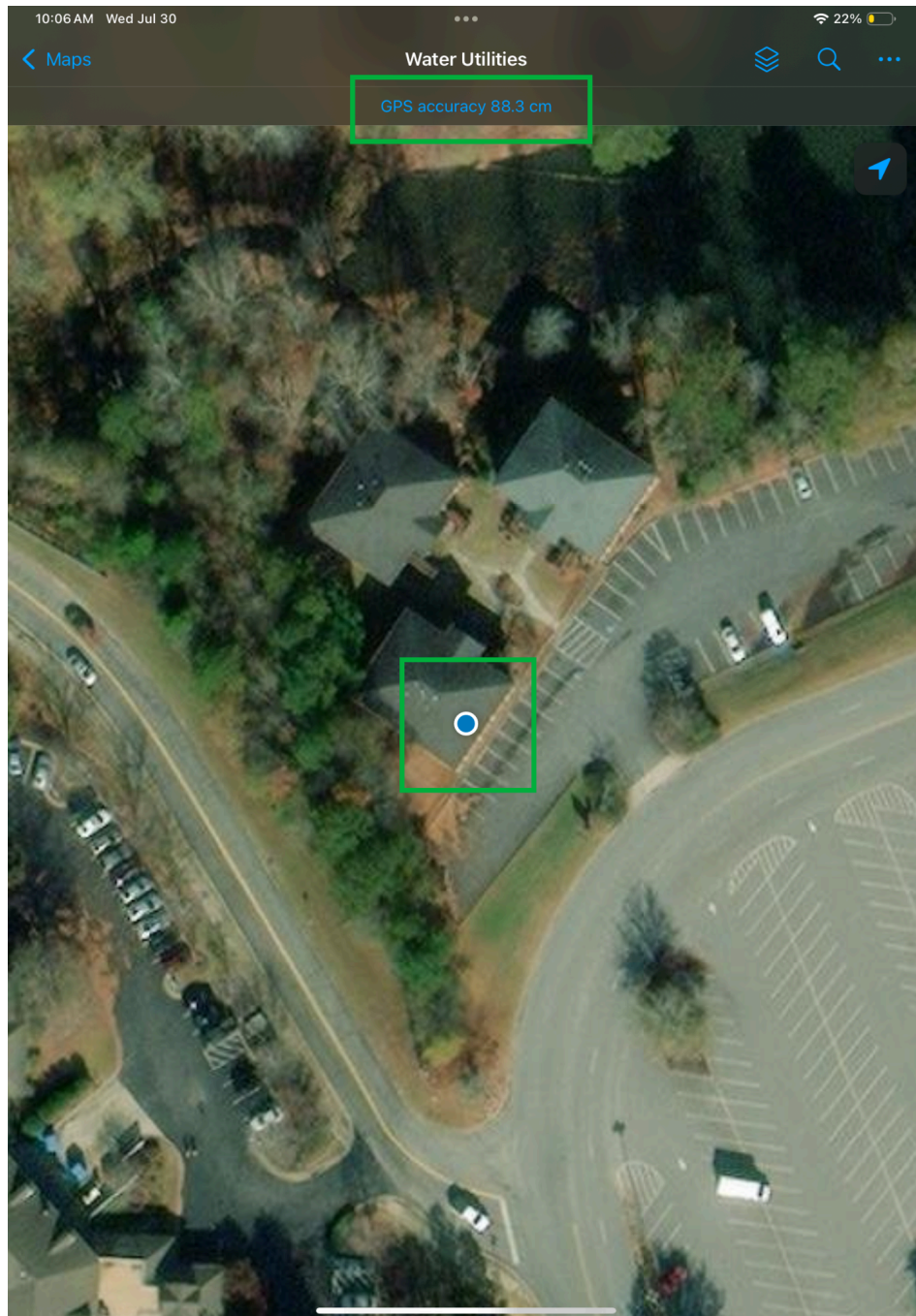
Accessing the Options menu to connect the Asteri GNSS device for use within ESRI Field Maps on iOS

Accessing the Options menu to connect the Asteri GNSS device for use within ESRI Field Maps on iOS

Accessing the Options menu to connect the Asteri GNSS device for use within ESRI Field Maps on iOS

Asteri GNSS receiver being utilized within ESRI Field Maps on iOS

# Using Orbitas and the Asteri GNSS receiver for RTK corrections.

*RTK corrections require an internet connection either through wi-fi or data plan.

*Tri-Global advises setting up the RTK correction within Orbitas, before launching Field Maps

You can utilize Orbitas on iOS to apply RTK correction to the Asteri GNSS receiver in conjunction with Field Maps

Follow the steps listed in the first section of this guide above to make sure the Asteri GNSS device is connected to the iOS device via Bluetooth.

1. Launch the Orbitas on iOS app and ensure the Asteri is connected and tracking.
2. Go into the **SETTINGS** and select **REAL-TIME SETTINGS**.
3. Enter in your RTK credentials and select your mounting point.
    3.1. IP Address (address of your RTK server given by your RTK provider)
    3.2. Port (port number assigned by your RTK provider)
    3.3. User (username assigned by your RTK provider)
    3.4. Password (password assigned by your RTK provider)
    3.5. Mounting Point (available list of mounting points, refer to your RTK provider for more details)
    3.6. RTK Connection status (will state "Connected" once NTRIP is enabled)
    3.7. Enable NTRIP (turn this toggle ON once all above information has been provided)
    3.8. ATLAS / Tech code input (used for applying ATLAS correction codes)
    3.9. RTK log (return log for NMEA stream while connected to RTK correction services)
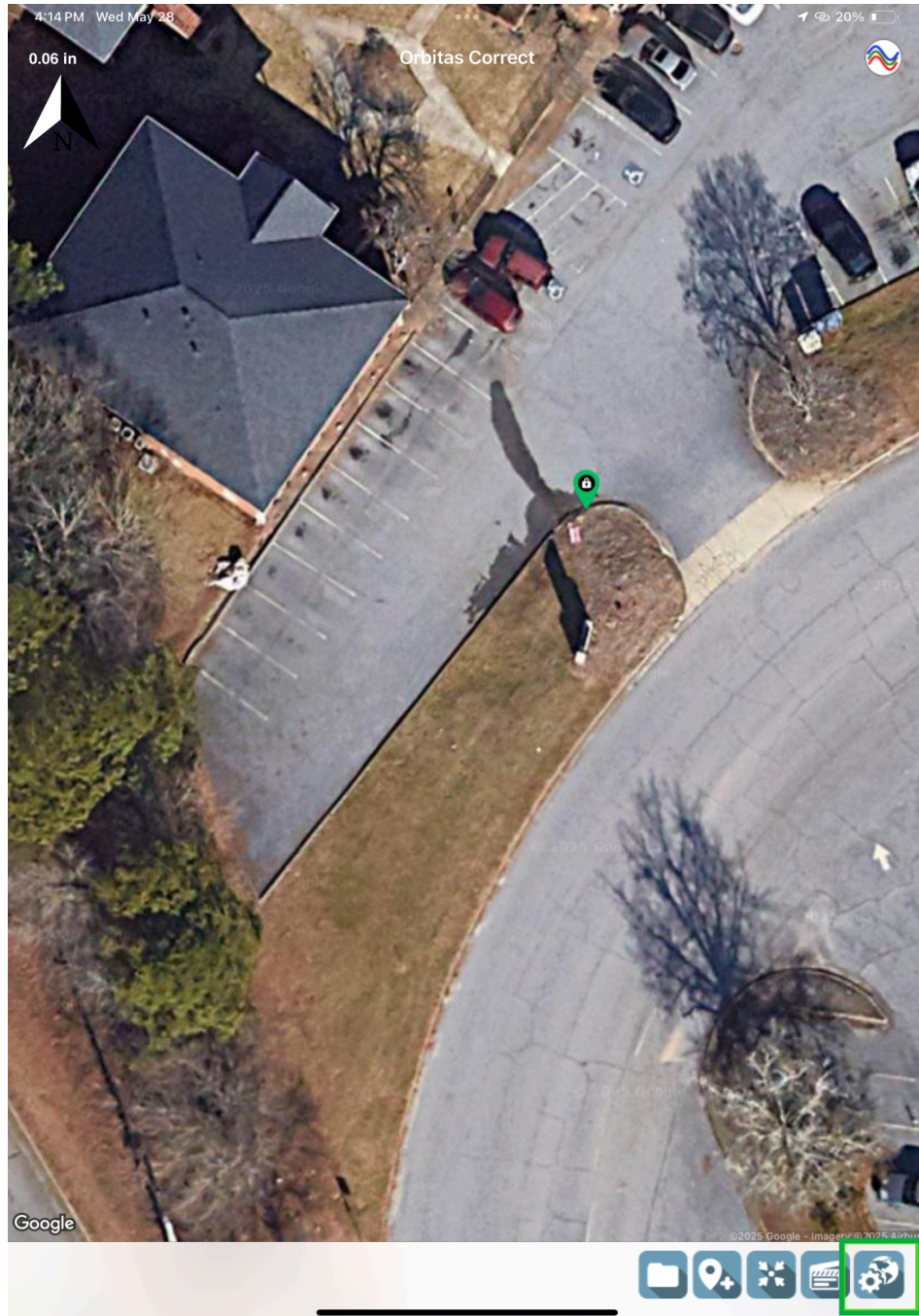
General Settings icon within Orbitas on iOS
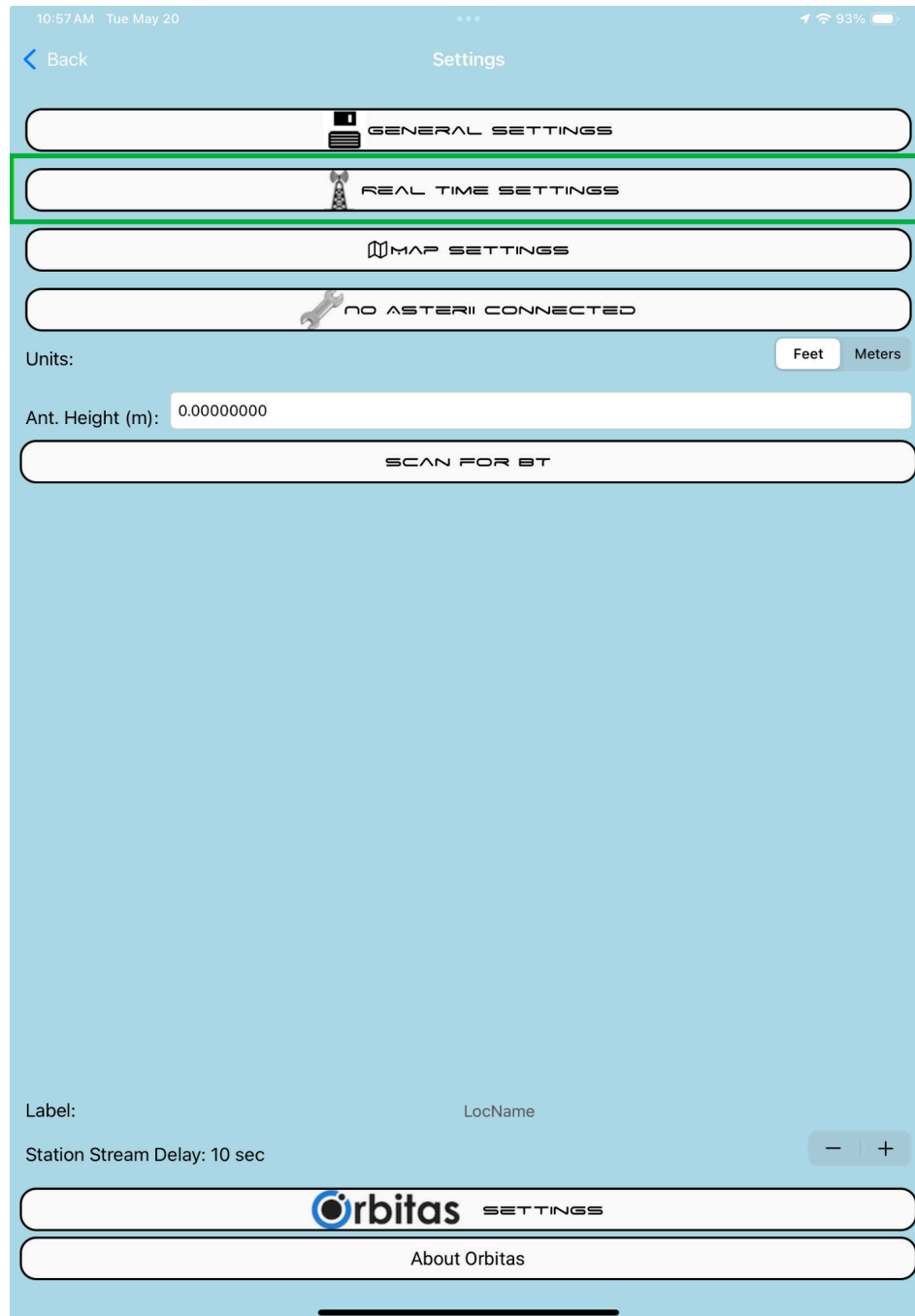
Real Time settings within the main settings menu of Orbitas on iOS

< Settings **NTRIP Settings**

IP **1.**

Port **2.**

User **3.**

Password **4.**

5. <No Mount Point>

6. Disconnected

Enable NTRIP **7.** ⬤

Atlas Settings:

8. Send Code

9.

Real Time correction setup within Orbitas on iOS

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Orbitas Correct Settings

If you have an active and valid license of Orbitas Correct, Orbitas Correct will be applied automatically and there is no need to enter any credentials.

1. The default and recommended Orbitas Correct Reference is "Worldwide" (WGS84). The Local Reference is NAD83 2011 and would be used to align with data that has been collected in the NAD83 2011 reference.
2. Select if you wish to enable PPP (exclusive to the X4i) service or not. For more information on PPP refer to this article.

‹ Back   Settings

┌───┐
│   🔲 GENERAL SETTINGS   │
└───┘

┌───┐
│   📡 REAL TIME SETTINGS   │
└───┘

┌───┐
│   🗺 MAP SETTINGS   │
└───┘

┌───┐
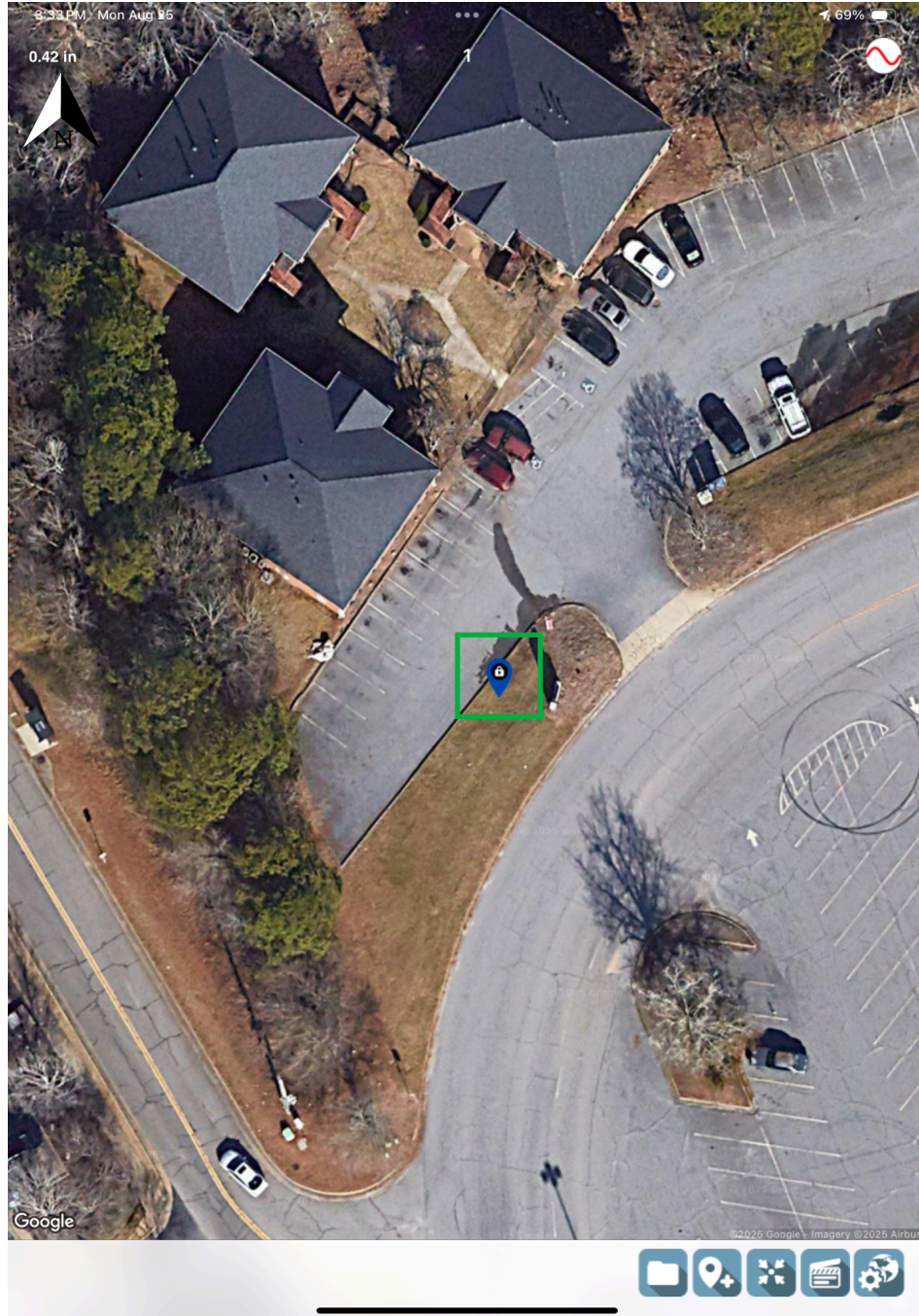│   🔧 NO ASTERII CONNECTED   │
└───┘

Units: | Feet | Meters |

Ant. Height (m): | 0.00000000 |

┌───┐
│   SCAN FOR BT   │
└───┘

Label: LocName

Station Stream Delay: 10 sec   — +

┌───┐
│   Ⓞrbitas SETTINGS   │
└───┘
┌───┐
│   About Orbitas   │
└───┘
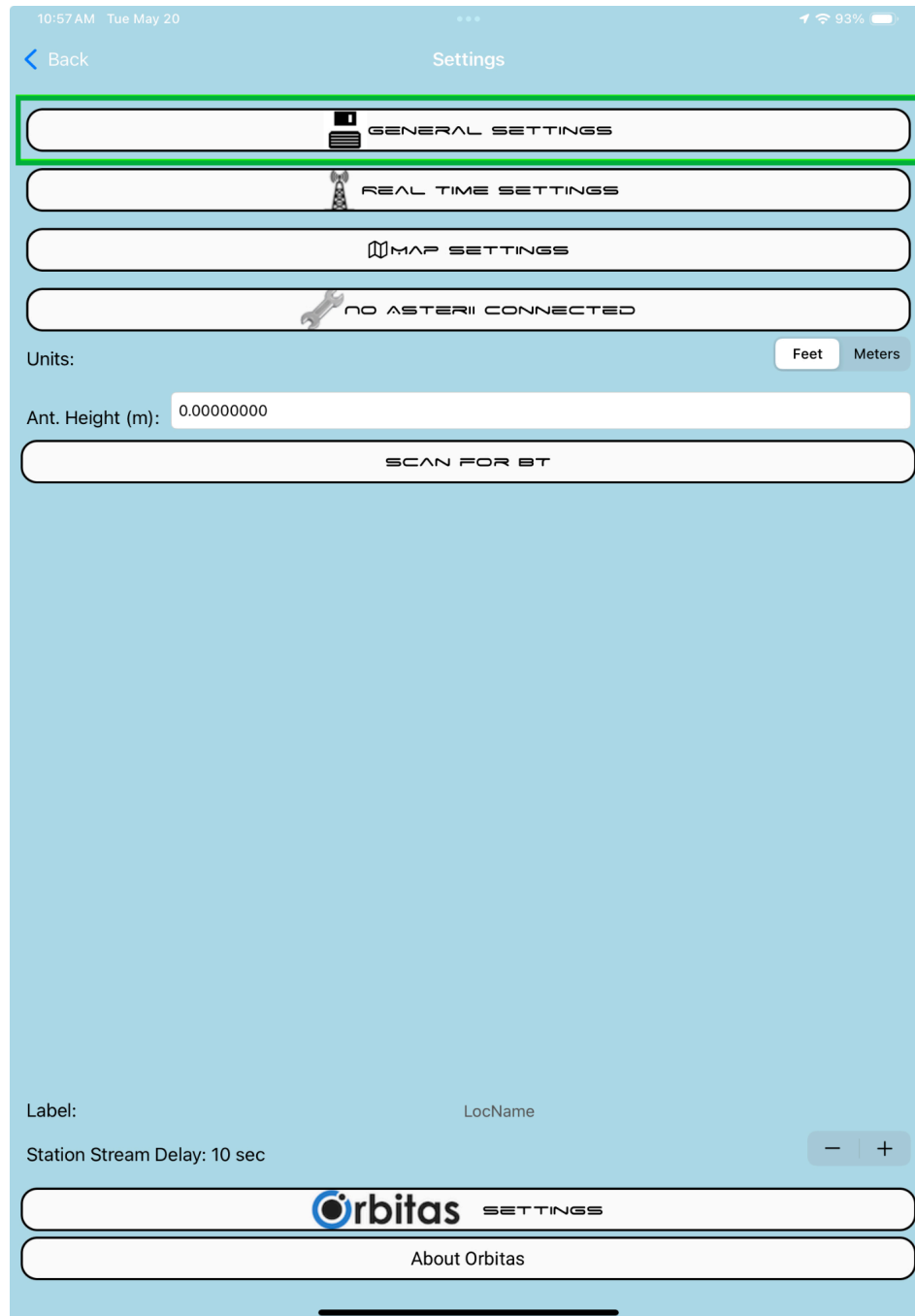
General Settings within Orbitas on iOS
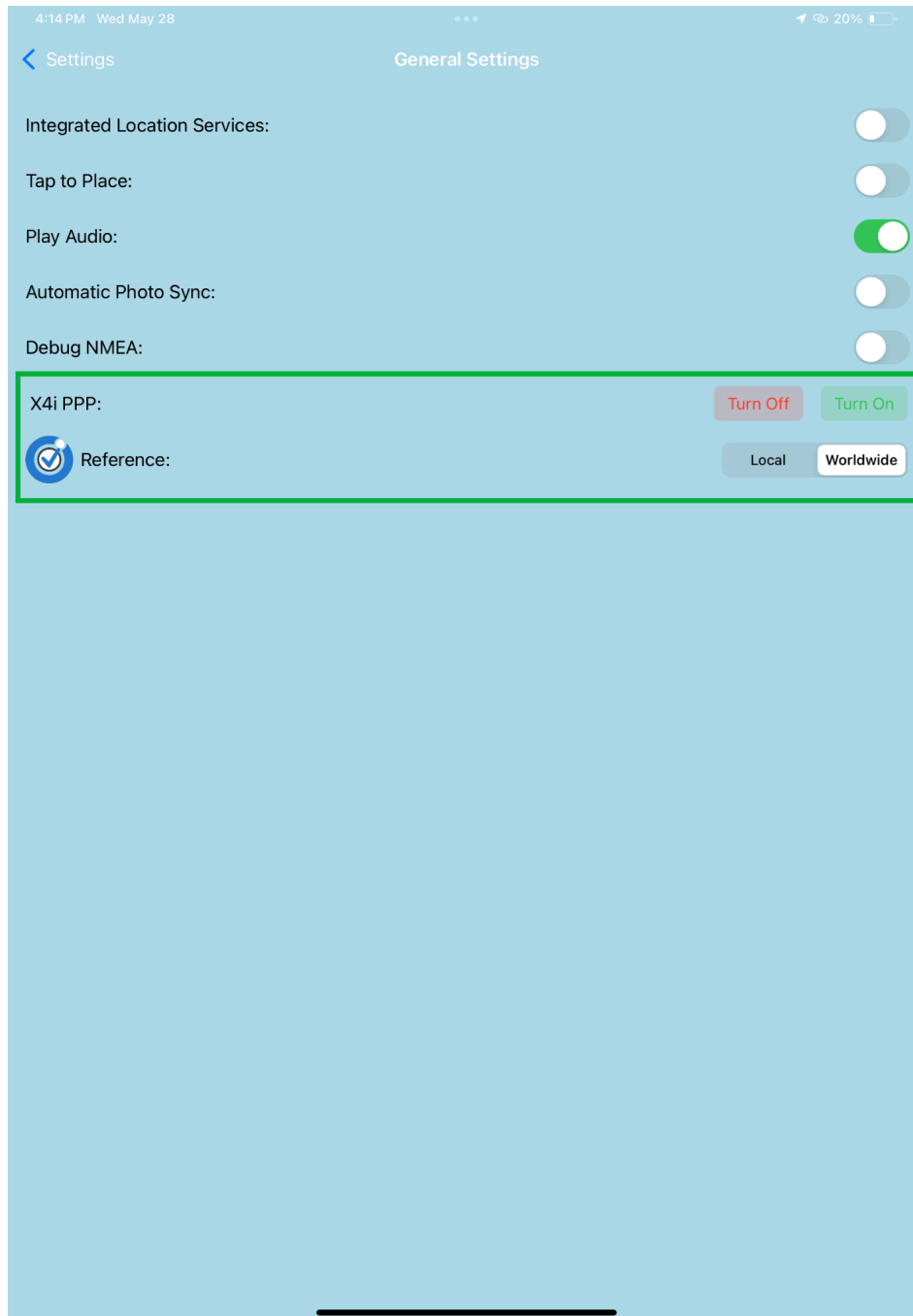
Orbitas Correct reference and PPP (X4i only) settings within Orbitas on iOS

PPP option enabled on the Asteri X4i that is paired to Orbitas on iOS

Leave Orbitas open in the background to ensure consistent RTK correction.

1. Launch Field Maps as described earlier in this guide and ensure the Asteri is being used. RTK corrections are now being applied to the Asteri receiver and results being shown in Field Maps.
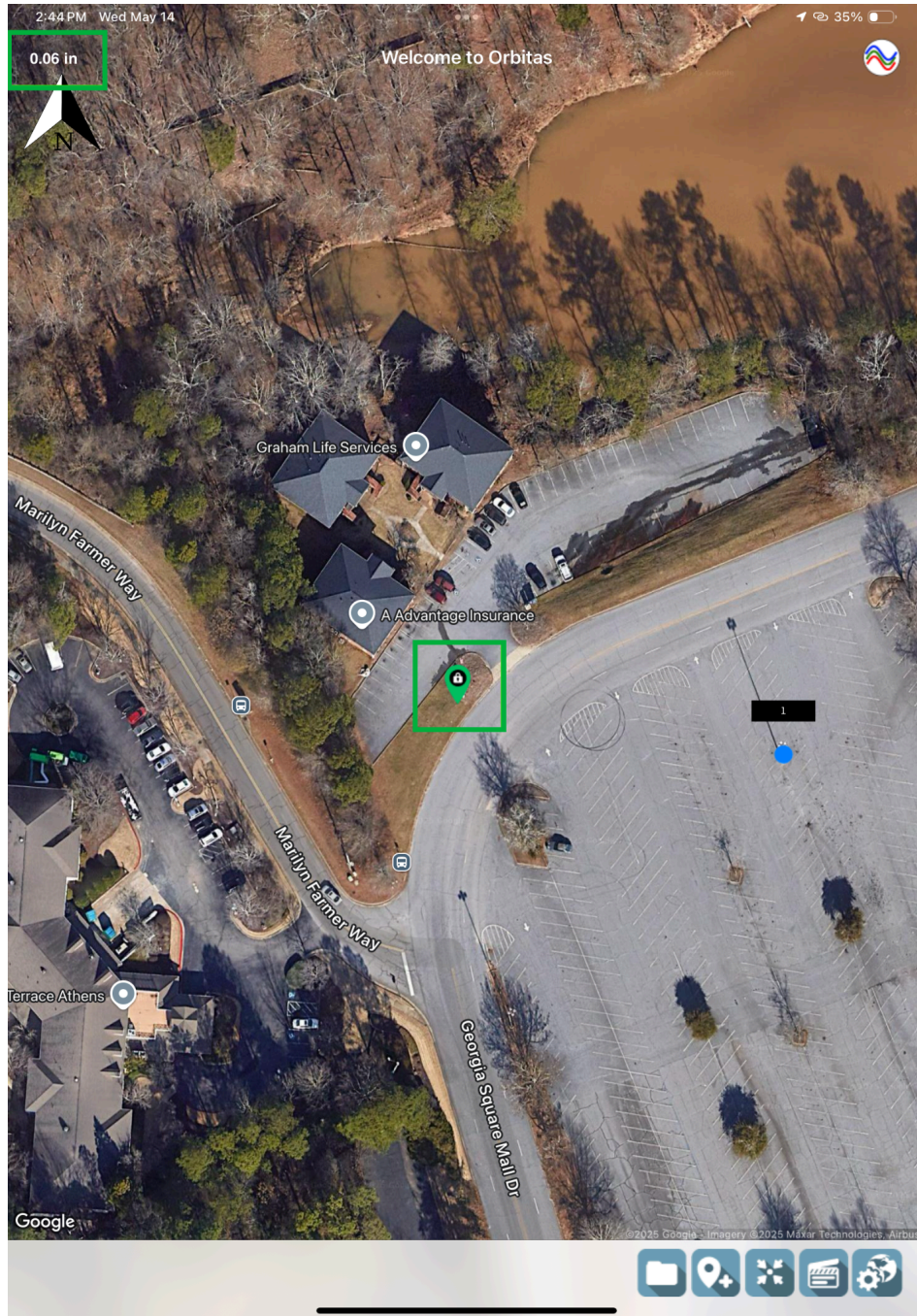
Orbitas on iOS utilizing Orbitas Correct to apply RTK corrections to the Asteri GNSS receiver for use within ESRI Field Maps
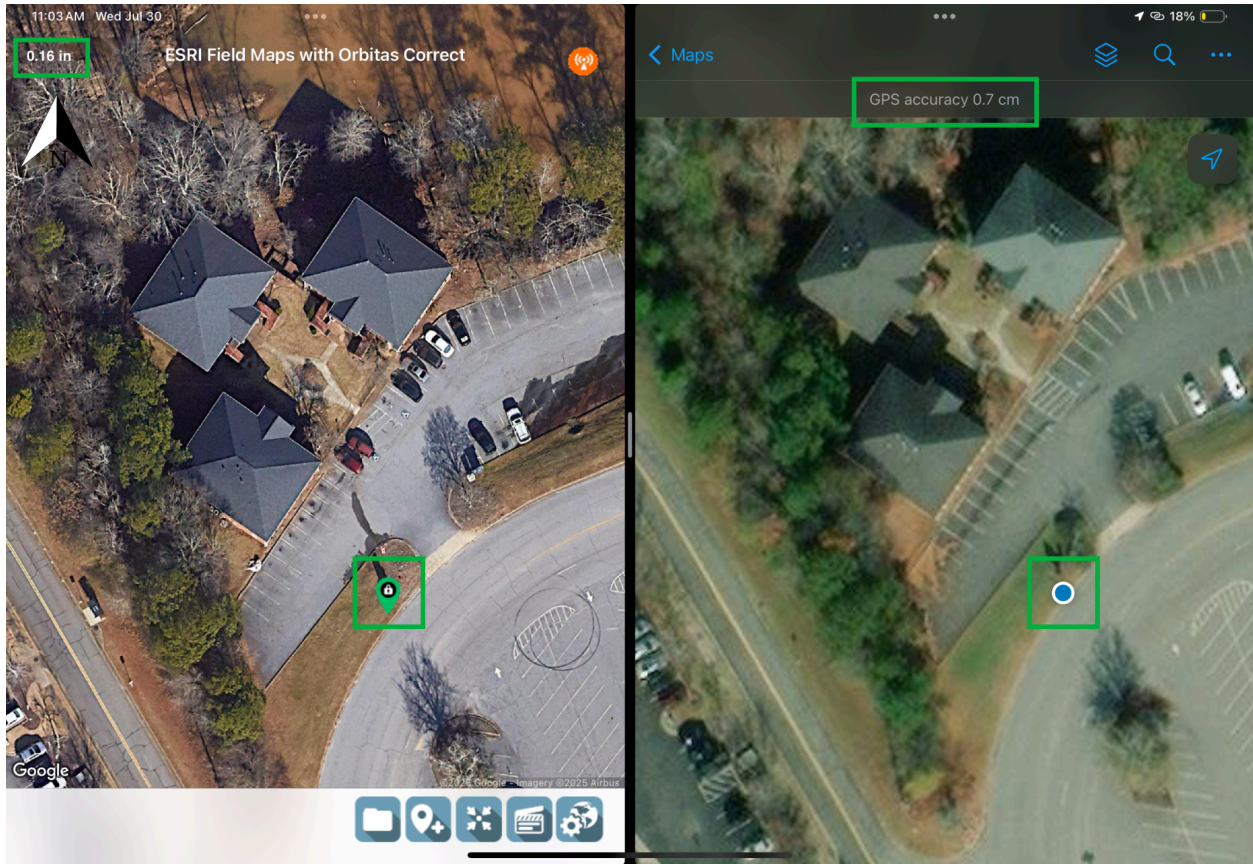
ESRI Field Maps utilizing the Asteri GNSS receiver in conjunction with Orbitas on iOS software providing RTK corrections through Orbitas Correct.

Related Resources

- Resolving Connection Issues
- For more support with FieldPro, please contact your ESRI Field Maps representative.