


iOS - Esri Field Maps Configuration for the EOS Arrow Receivers

QUICK START

Follow these steps if this is NOT your first time connecting your mobile device to your Arrow receiver.

- Login into ArcGIS Field Maps, a High Accuracy Mapping Application. All GNSS information is stored with the feature you create.
- In Settings, connect tablet to receiver by turning on Bluetooth and selecting the receiver.
- In ArcGIS Field Maps, go to the setting menu by clicking the profile button: 
 - Check that the **PROFILE** (under location) is setup for desired level of accuracy (SBAS or RTK). Make sure the location provider is set to associate with the receiver (see detailed step by step instructions below).

LOCATION

Follow these steps if this is your first time connecting your mobile device to your Arrow receiver.

Go to settings in Field Maps by clicking the profile button: 

- **To setup Provider:**
 1. Select **“provider”** under the **“Location”** section
 2. Select the plus sign in the top right corner.
 3. Since your receiver is already connected via Bluetooth, it will appear as an option and select it.
 4. Enter in your range pole height if elevation is important for your data collection.
 5. Select **“done”**
 6. After selecting done you will now see two options, the integrated receiver, and the EOS receiver you just added. Select the EOS receiver you added (A blue checkmark appears on the left side of whichever provider you have selected).
- **To setup Profile for SBAS corrections (Sub-meter data collection):**
 1. Select **“Profile”** under the **“Location”** section.
 2. Click the **“Add”** button in the top right corner.
 3. Select the GNSS Coordinate System. Search **“GCS ITRF 2008”** with the sub numbers **“104257”** and select it.
 4. Enter the map coordinate system:
 - 4a. Search, **“Web”** and select **“WGS 1984 Web Mercator Auxiliary Sphere”** with the sub number **“3857.”**
 5. Set your map extent by zooming into North America. Then tap the right arrow button.

6. Now you must enter a datum transformation. For the USA use:
“ITRF_2008_To_NAD_1983_2011 + WGS_1984_(ITRF08)_To_NAD_1983_2011” with the sub wording “USA - CONUS and Alaska; PRVI.”
7. Next, name the profile you just created for your SBAS corrections and select “Save.”
8. Lastly, ensure you select your location profile you just created so there is a little blue check mark on the left.

* The graphic below is what your location profile settings should be for **SUB METER** data collection. Select the **i** to review your location profile set up.



- Profile for RTK corrections (Centimeter data collection):

1. Select "Profile" under the "Location" section
2. Click the "Add" button in the top right corner.
3. Select the GNSS Coordinate System. Search “GCS NAD 1983 2011” with the sub numbers “6318” and select it.
4. Enter the map coordinate system.
- 4a. Search, “Web” and select “WGS 1984 Web Mercator Auxiliary Sphere” with the sub number “3857.”
5. Set your map extent by zooming into North America. Then tap the right arrow button.

6. Now you must enter a datum transformation. For the US use:
“WGS_1984_(ITRF08)_To_NAD_1983_2011” with the sub wording “USA - CONUS and Alaska; PRVI.”
7. Next, name the profile you just created for your RTK corrections and select “Save.”
8. Lastly, ensure you select your location profile you just created so there is a little blue check mark on the left.

* The graphic below is what your location profile settings should be for **CENTIMETER** data collection. Select the ⓘ to review your location profile set up.

RTK		Done
GNSS COORDINATE SYSTEM		
GCS NAD 1983 2011	6318	
MAP COORDINATE SYSTEM		
WGS 1984 Web Mercator Auxiliary Sphere	3857	
DATUM TRANSFORMATION		
~WGS_1984_(ITRF08)_To_NAD_1983_2011	USA - CONUS and Alaska; PRVI	