


## ANDROID - ESRI Field Maps Configuration for the EOS Arrow Receivers

### QUICK START (If device has been paired and used previously)


- In device Settings menu, connect tablet to receiver by turning on Bluetooth and selecting the receiver.
- Open the Eos Tools Pro mobile application. Click the three dots in the upper right-hand corner. Ensure that there is a check next to “Enable Mock Location” and select “Start GPS” (If Auto-Start GPS is enabled, you do not need to select Start GPS).
- In Field Maps, check that the **PROFILE** (under location) is setup for desired level of accuracy (SBAS or RTK). Make sure the location service provider is set to **INEGRADED**. If you select the Arrow receiver for the location provider, Esri Field Maps will not function properly.

### FIRST TIME USE CONFIGURATION – ANDROID SETTINGS


\*Before configuring your Android device, download Eos Tools Pro and ArcGIS Field Maps from the Google Play Store.

- Select the settings icon  for your Android device.
- To setup Mock Location:
  1. In the main settings menu, select “**About device**” (Your device may also say “About phone” or “About tablet”).
  2. Select “**software information**”
  3. Since your receiver is already connected via Bluetooth, it will appear as an option and select it.
  4. Find “**Build number**” and click on it 7 times until Developer mode is turned on.
  5. Once you have turned on Developer mode, go back to the main settings menu.
  6. Under the “About device” option, you should now see “**Developer option.**”
  7. In the Developer options, scroll down to where it says, “**Enable Mock Location**” or “**Select mock location app.**” Enable the Mock Location on your device or select Eos Tools Pro as the mock location app.
  8. Restart your device.
- To setup Eos Tools Pro:
  1. Once your device has been reset, pair your Arrow series receiver via Bluetooth to your Android device.
  2. Open the **Eos Tools Pro** mobile application.
  3. Select the three dots in the top right corner and click the check box next to “**Enable Mock Location.**”
  4. Again, select the three dots in the top right corner. Select “**Start GPS**” and the values on the Position tab will begin to populate with your current location information.

## ArcGIS FIELD MAPS CONFIGURATION

- Open the ArcGIS Field Maps mobile application.
- Go to settings in Field Maps by clicking the profile button: 
- Under the “**Location**” section, Keep the **Provider** set to “**Integrated.**”
- **To setup Profile for SBAS corrections (Sub-meter data collection):**
  1. Select “**Profile**” under the “**Location**” section.
  2. Click the “**Add Profile**” button.
  3. First, select the GNSS Coordinate System:
    - a. Search “**GCS ITRF 2008**” with the sub numbers “**8999**” and select it.
  4. Enter the map coordinate system you are using:
    - a. For Esri basemaps, 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 the location profile so that you see it appear under “**Current**” in the Location menu.

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

← **SBAS**

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GNSS coordinate system  
GCS ITRF 2008  
8999


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Map coordinate system  
WGS 1984 Web Mercator Auxiliary Sphere  
3857

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Horizontal datum transformation  
ITRF\_2008\_To\_NAD\_1983\_2011 + ~WGS\_1984\_(ITRF08)\_To\_NAD\_1983\_2011  
USA - CONUS and Alaska; PRVI + USA - CONUS and Alaska; PRVI

- To setup the profile for RTK corrections (Centimeter data collection):
  1. Select "Profile" under the "Location" section
  2. Click the "Add Profile" button.
  3. Select the following GNSS Coordinate System:
    - a. Search "GCS NAD 1983 2011" with the sub numbers "6318" and select it.
  4. Enter the map coordinate system:
    - a. For Esri base maps, 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.

←	<b>RTK (CM)</b>
GNSS coordinate system	GCS NAD 1983 2011 6318
Map coordinate system	WGS 1984 Web Mercator Auxiliary Sphere 3857
Horizontal datum transformation	~WGS_1984_(ITRF08)_To_NAD_1983_2011 USA - CONUS and Alaska; PRVI