

## Avenza PDF Maps App

A geospatial, GeoPDF, GeoTiff reader available for Apple IOS, Android, and Windows Devices through either iTunes, Google Play or Windows Phone Store. App allows you to interact with spatially referenced maps to view your location, determine latitude/longitude, record GPS tracks, add place marks and find places. Some features allow you to download the feature to other devices as kml's , csv or gpx for use in other apps.



Once you have the app loaded on your device, it is simple to load maps from a variety of sources (Avenza Store or ArcMap developed maps saved as pdf's) that are georeferenced on you device.

How to download maps:

1. Open the Avenza App.

2. To browse the maps available for your area of interest select the Store icon  located along the bottom of the app.

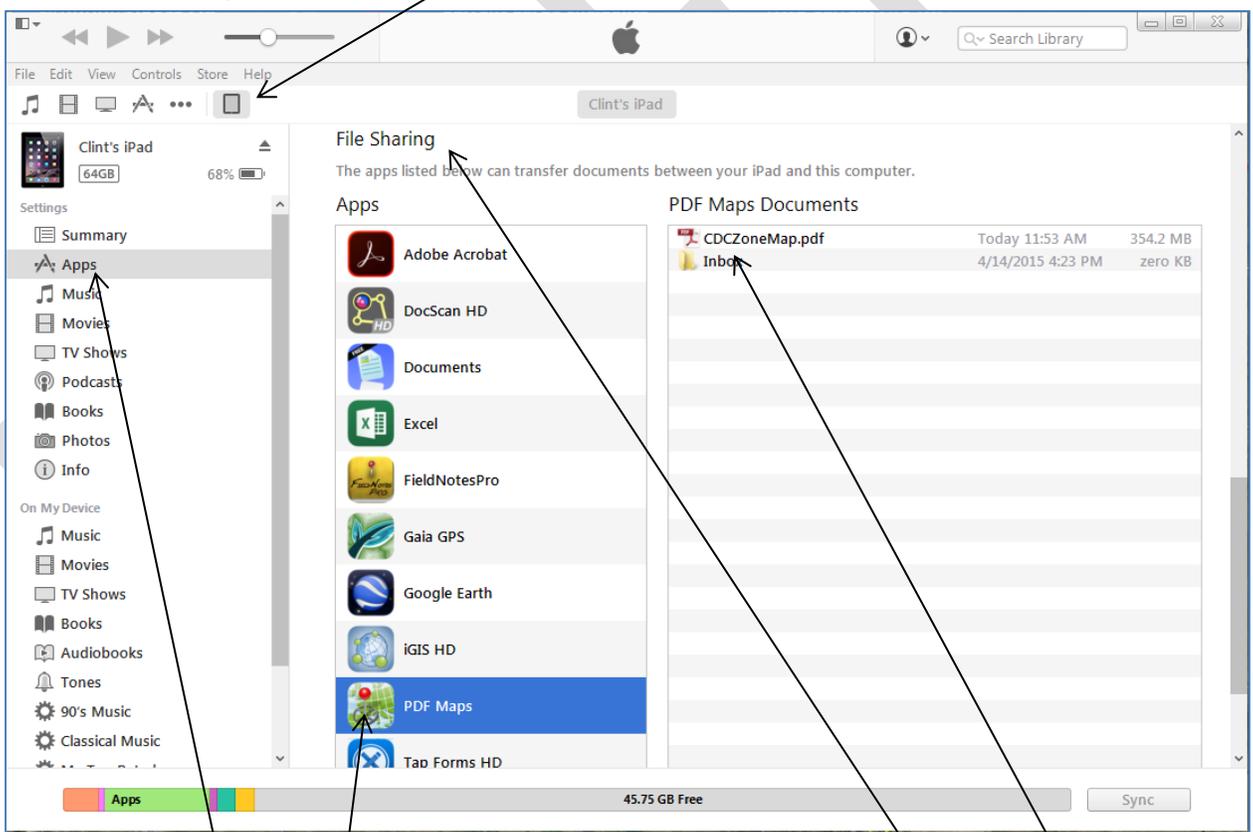


- Select "Find Maps" and if your device has Location Services activated, the app will display the maps available in the store for your location. Some maps are free while others charge you for the map.
- Select "Recently Added" or "Popular" for a list of available.

3. To download maps you or others have created select Maps icon  , located along the bottom of the app, then the “+” in the upper right corner of the app.

4. You have a number of options to download maps. The download process will take a few minutes to 30 minutes to download depending on the size of the file. Once downloaded, the app will then take time to process the file before it is ready to view. The processing takes more time than downloading – from 30 minutes for a 150 MB file to 6 hours for a 900 MB file so plan your time accordingly.

- a) From PDF Maps Store – it will take you back the Store which is described under #2 above.
- b) From iTunes File Sharing – other devices will have a similar process, you will need to reference the device documentation for them.
  - i. You can copy files between your computer and apps on your IOS device that work with File Sharing.
  - ii. Plug in your IOS device to your computer with a Thunderbolt or USB cable.
  - iii. Launch iTunes on your computer.
  - iv. Select your device in iTunes



- v. Select Apps and scroll down to near the bottom of the page to “File Sharing”
- vi. Select PDF Maps
- vii. Select you .pdf file from your computer and drag the file into right side of the screen and “drop”.

- c) From Dropbox
  - i. Dropbox is a cloud site accessible by email and password. Some agencies may have policies that prohibit the use of Dropbox.
  - ii. In your internet browser go to [www.dropbox.com](http://www.dropbox.com)
  - iii. For the CDC Dispatch Zone there is a Dropbox already established and accessible by entering the following:
    - i. Email – [Codydispatch@gmail.com](mailto:Codydispatch@gmail.com)
    - ii. Password – **Codydispatch1!**
  - iv. Select the folder with the file you want to download – for example:
    - i. CDCZone
      - 1. Maps
        - a. CDCZoneMap.pdf
  - v. Select “Import” at the bottom of the screen and the file will download via 3G/4G service or Wi-Fi. It will take 10-15 minutes for a large file (300-400 MB) to download verses 2-3 minutes for a small file (100-200 MB) to download to your device.
- d) From QR Code
  - i. Selecting this will allow you to use your device camera to scan a QR code that will take you to the site of the map and download.
  - ii.
- e) From the Web – **this feature is currently not available on the CDC website** (stay tuned for late June 2015).
  - i. Type in the web address for example
    - i. [http://gacc.nifc.gov/rmcc/dispatch\\_centers/r2cdc/dispatch/CDCZone/CDCZoneMap.pdf](http://gacc.nifc.gov/rmcc/dispatch_centers/r2cdc/dispatch/CDCZone/CDCZoneMap.pdf) and the map will download to your device.
    - ii. At this site you can download the CDCZoneMap.pdf (354 MB) or the large map has been broken into four quadrants (NW,NE,SE, and SW) with each file around 100-150 MB in size. To download one of the quad maps, change the web address from CDCZoneMap.pdf to NWQuad.pdf or SWQuad.pdf or SEQuad.pdf or NEQuad.pdf.

5. Once the map is downloaded and processed, the map is on your device until you delete it. There are many features available with the app that you may find useful. Once the Georeferenced PDF map is on your device you no longer need to have 3G/4G or Wi-Fi service to use the features on the map. All newer devices have built in GPS while older devices may require an external GPS device and App to work.

- a) Select a map to view on your screen, you will notice a cross hair circle in the center of the screen, the center of the cross hair corresponds to the latitude/longitude shown on the center bottom of your screen, as you drag the map in different directions you will notice the lat/long changes.

b) To change the lat/long display format, press on the lat/long at the bottom of the screen and a dialog box will pop up with several formats available. You will notice there are 2 screens of formats, one with map default and the other with WGS 84. I suggest you only use the map default formats to maintain the datum used to create the map.

- i. Current Location - Arrow – lower left corner of screen 
  - Press the arrow and the map will zoom to your current location and you will see a blue dot displayed on your map, also the lat/long display will give your current lat/long location. If you move you will need to press the arrow again as it will not follow you.
- ii. Waypoint - Pin – lower left corner next to arrow 
  - Press the pin and a pin will appear on your map in the center of the bulls eye, if you want to mark a waypoint at your current location you would press the arrow then the pin to mark your current location. If you want a waypoint on some other feature of your map other than current location, center the cross hair over that feature then press the pin.
  - You change the default name of the waypoint as well as other features by pressing the  next to the default name of the waypoint on the screen and a dialog box will pop up allowing you to change the waypoint name, change the type of icon to mark the waypoint, write a description, and attach photos. The lat/long of the waypoint is displayed with the waypoint. If you want to delete the waypoint, press the waypoint, dialog box will open and press the garbage can icon and the file will be deleted.
  - You can send the waypoint to others through email, message or other apps by pressing the other icon next to the garbage can (box with arrow pointing up) and selecting how to send it. Useful for sending Emergency Evacuation points to CDC if you have cell service.
- iii. Lines/Waypoints/Track List  Lower right corner.
  - Dialog box showing a list of all lines/waypoints/tracks that you have saved and associated with the map. Allows you to modify names and features as well import or export the waypoints to or from other apps including kml's, csv and gpx, which can allow you to use the data in Google Earth and ArcMap.

iv. Tools  Lower right corner.

i. Measure 

- a. Allows you to measure distance and area in various units of measure.
- b. To measure distance, place the cross hair over the location on the map you want to start measuring from and press “Measure”. You will notice that a dialog box opens along the top that says “Tap the plus button to Start”. Before hitting the plus button, press the gear symbol to the right of the word start and a dialog box pops up with options to change the color of line or polygon you are drawing as well as the units . Select units you are wanting displayed and press “Settings” then “Close” to return to the map.
- c. Press the “+” along the bottom of the screen and move the cross hairs to where you want to measure too and the corresponding distance is displayed to you as well as the azimuth from point a to point b. If you are done and are only interested in know the distance select the “-” to remove the distance line. If you want the line to remain then selct “Save”
- d. To determine area, position the cross hair over the point to start, press the Triangle symbol and move the cross hair around the area to determine area pressing the “+”, along the way back to the beginning and note corresponding acres. If you make a mistake, you can press the “-“to back up and then continue around your area of interest. Unfortunately, you cannot save acreage polygons like you can waypoints. When completed with “Measure” select done to exit this tool.

ii. Record GPS Tracks 

- a. Select “Start” on bottom of screen at the point you want to record, drive, walk, fly to the point you want to stop and select “Stop”. The track is automatically saved to the device, go to the list icon and you can modify its name and other features including emailing the track in several formats.

iii. Find Coordinates 

- a. Allows you to enter a lat/long and the map will zoom to the location.

iv. Open in Maps App 

- a. The current view of your map will open in your devices Map App such as Map for Apple IOS and allow you to use features associated with that app. Will only work if you have 3G/4G or Wi-Fi service.
- v. Plot Photos 
  - a. Allows adding geotagged (photo's that have a lat/long associated with them such as the Theodolite App) photo's to you map as waypoints. Your device photo library must be available to the Avenza App for this feature to work. For Apple IOS devices that can be set in Settings for the device.

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