



**Assumptions** – This guidance assumes that readers have basic familiarity with these computer and Apple device skills.

- Install and use apps from the App Store.
- Connect an Apple device to a computer with a USB cable.
- Download internet files to a computer, or to an Apple device.
- Copy, paste, and rename files.

**Travel aid requirements** – These four items will facilitate installation and use of the travel aid.

1. **Smartphone, tablet, or other device** running **Apple iOS 5.0, or greater**
2. **Avenza PDF Maps app** (free) from the App Store
3. Optional **QR Code scanning app** (free) from the App Store
4. **Travel aid map content** (free) from Coconino National Forest at <http://go.usa.gov/PEa>

**Install the Avenza PDF Maps app** – Touch **App Store** on the device, sign in to your iTunes account, search for, and install the free **Avenza PDF Maps** app.



**Install a QR Code scanning app (optional)** - Touch **App Store** on the device, sign in to your iTunes account, search for, and install an app for scanning QR codes. The free **Scan** app is illustrated here for purposes of demonstration, but many other free QR code scanner apps are available at the Apple App Store.



**Install the travel aid's map content** – There are three options for downloading and installing the travel aid's map content. All produce the same result, so select one that fits your situation.

1. The two **wireless options** require that your device has internet access over a WiFi or 3G/4G connection. A WiFi connection is strongly recommended because it will, typically, be faster, and incurs no charge against your 3G/4G data service plan. Wireless option 1 requires a QR code scanner app.
2. The one **connected option** requires that your device be connected by its USB cable to a computer with internet access.



**Option 1, Wireless install from a QR code** – Scan the QR code at left to obtain the North Half map (about 11 MB), and accept the scan. The PDF Maps app will open automatically, and begin downloading the north half map’s content, as seen below.



Some QR code scanner apps may require additional user input by issuing prompts, like “**Open In...**”, or “**Complete the action using PDF Maps**”. Be patient during the download process.

When the download is complete, PDF Maps will automatically begin processing the map’s content for display, as at right. Be patient while processing is in progress.



When processing is complete, the map’s entry will appear as illustrated at right. Open the map by touching its entry.



Scan the QR code at right, and repeat the process described above to obtain the Forest’s South Half map (about 20 MB). After processing, map content for the North Half and South Half maps will consume about 45 MB and 66 MB on the device.



**Option 2, Wireless install from a web link** – Use an Apple device to browse to the Coconino National Forest’s MVUM web page at <http://go.usa.gov/PEa>, and touch the **Apple** link titled **NORTH Half Coconino National Forest** near the bottom of the page. As in Option 1, the PDF Maps app will open automatically, and begin to download and process the map’s content.

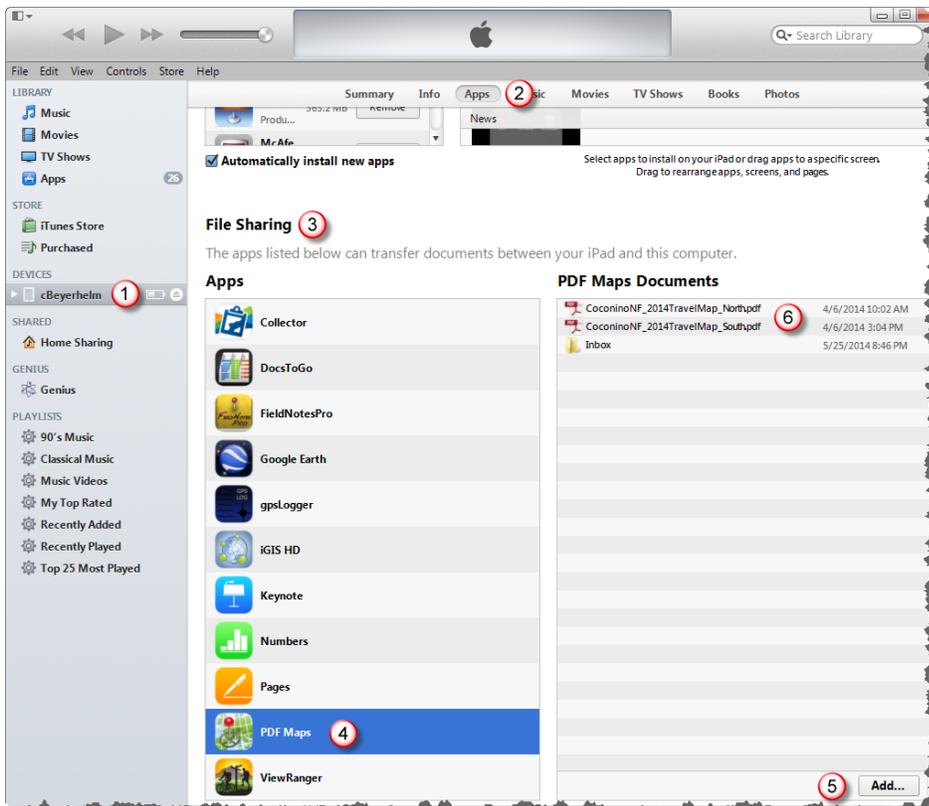
Repeat the process using the **Apple** link titled **SOUTH Half Coconino National Forest** to obtain the South Half map.

**Option 3, Connected install from a computer** – Use a computer to browse to the Coconino National Forest’s MVUM web page at <http://go.usa.gov/PEa>, and move to near the center of the page. Download and save the North Half map to a folder on the computer by clicking the **Desktop or laptop computer** link titled **NORTH Half Coconino National Forest**. Then use the computer’s file manager utility to rename the file as **CoconinoNF\_2014TravelMap\_North.pdf**.

Repeat the download and save process for the South Half map by clicking the **Desktop or laptop computer** link titled **SOUTH Half Coconino National Forest**, and then use the computer’s file manager utility to rename the file as **CoconinoNF\_2014TravelMap\_South.pdf**.

Follow these steps to stage the two downloaded map files in **iTunes File Sharing** for transfer to an attached Apple device.

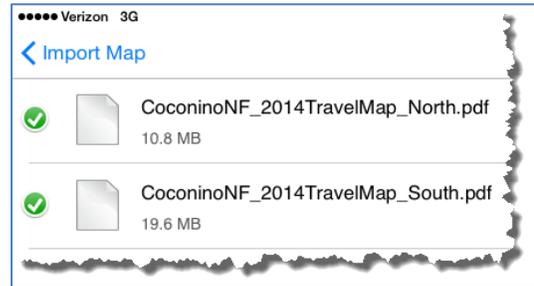
1. Open iTunes on a computer that is connected to an Apple device by its USB cable, and click on the listed attached device, cBeyerhelm in this example.
2. Click on **Apps**.
3. Scroll down to the **File Sharing** section.
4. Click on the **PDF Maps** app.
5. Click the **Add...** button, and browse to the recently downloaded map files.
6. The listed map files are now staged, and available for iTunes File Sharing.
7. Do not disconnect the Apple device from the computer.





Start PDF Maps on the Apple device by touching its icon, and then import a map by touching the “+” sign in the upper right corner of the **Maps** page.

Touch **From iTunes File Sharing** on the **Import Map** page. The files that were recently added to iTunes File Sharing will now appear. Select both maps, and touch **Import (2)** in the lower left-hand corner of the screen to initiate processing of their content.



**Use the travel aid** - Touch a map’s entry on the **Maps** page to open it. WiFi or 3G/4G coverage is not required to use the map, as all map content has been cached on the device. Users may pan, zoom out, or zoom in using standard multi-touch gestures.

GPS positioning is active when the device displays this symbol  in its status bar, and this blue dot  is visible on-screen.

 These two buttons toggle alternate functionality on and off. When the button at left  is active (recommended), the map view automatically remains centered on the current GPS position. The button at right becomes active when a user manually zooms or pans the map’s cross-hairs away from the current GPS position. GPS positioning remains in effect when the button at right is active, but the map view will not automatically remain centered on the current GPS position as a user moves from one location to another. Press the button to toggle back and forth between the two functionalities.

**35.18650, -111.67436** This button displays the map’s cross-hair coordinates. Touch it to change the display format of coordinate values.

 Touch this button to delete a map, edit its name, or view map information.

 **Maps** This button returns a user to the list of maps on the **Maps** page.

**Limitations of the travel aid** – The travel aid has several shortcomings, as described below.

- WiFi-only tablets can provide some limited non-GPS positioning service, but only where WiFi coverage exists. Devices with 3G/4G capability, on the other hand, are able to provide true GPS positioning, even in the absence of 3G/4G coverage.
- GPS positioning consumes more power than normal operation, so use of an approved power adapter is recommended.
- Feature labels are static and, in some situations, could be off-screen.
- Travel aid functionality could be compromised if steeply rising terrain, dense vegetation, or other overhead obstructions significantly degrade GPS reception.