

MotionX-GPS

This is an overview of the MotionX-GPS navigation/hiking application available for the Iphone. This app is very comprehensive and requires some study to utilize all features. However, this write-up should be sufficient to get you started, and to aid your navigation on hikes. More detail can be found at the following link: <https://static.motionx.com/download/motionx-gps-manual.pdf> (it downloads a pdf file for MotionX-GPS manual). This write-up is a work-in-progress. We welcome all input/advice/corrections/etc.. as we attempt to learn how to utilize this tool to its best advantage.

MotionX is an Iphone application (app) that shows you where you are, where you have been, and helps you navigate to where you wish to be.

1. It is currently only for Iphones, there is no Android version.
2. There are many apps that use GPS to track hikes/trips/etc.. This is one of them. Just as people have favorite makes of cars (Ford vs Chevy), there are other good apps that you can/do use. This is merely one that several of us have found to be accurate and helpful. Your choice of navigation assistance is up to you.
3. There is a one time charge of \$1.99 to download this application from the App Store. Search for MotionX GPS once you have clicked on the App Store icon on your iphone.
4. We have found most (maybe 90%) of the trails that the Club hikes are already displayed and accurate.
5. GPS tracking devices/apps are actively accessing satellite signals, tracking your location, and if you chose, sharing your location with others. Consequently, they can utilize a considerable amount of power/battery. It is not uncommon for a day hike to utilize half of the capacity of your device's battery. Methods to minimize this impact:
 - a) Carry a small extra battery pack/charger. This should only be needed on long/overnight hikes. The condition of your GPS device battery will impact the need for this.
 - b) Follow step A) 5. below.
 - c) Step E) below - sharing location - can have a negative battery impact. If you would like to use this sharing location feature, I suggest you try it on one of the club's shorter hikes (less than 5 miles) to gauge the battery impact on your device.



Steps to take prior to using MotionX in the field.

note: you should do steps A-C below in the days prior to your hike.

- A) **Set LOCATION SERVICES** (*should only need to be done one time at initial set-up of MotionX, Iphone should retain this setting*)

Once you have successfully downloaded the app, you must set LOCATION SERVICES on your Iphone:

(note that these steps are from my phone running IOS release version 11.4.1. Your steps may vary slightly depending upon your phone's operating system version, but this information should be sufficient to get your location services set.)

1. look for and tap the SETTING icon on your iphone 
2. scroll down and tap the PRIVACY icon on your iphone 
3. tap the LOCATION SERVICES icon on your iphone 
4. make sure location services is on 
5. scroll down and tap the MOTIONX-GPS icon, then select **While Using the App.** *(This setting will help to minimize battery drain by restricting location services for MotionX)*

B) **Set MAP TYPES** *(should only need to be done one time at initial set-up of MotionX, Iphone should retain this setting)*

1. tap GPS MOTIONX icon on your Iphone

wait a "second", a map will be displayed and the spinning red EARTH icon in the top right will turn blue and green when a strong GPS signal is obtained.

2. with a map displayed, tap the 3 blue lines icon on the top left of screen
3. tap the MAP TYPES
4. tap MOTIONX ROAD line (as of now, we think this is the best/most trail detailed map format for our purposes). A check mark will appear to the right of MotionX Road.
5. tap anywhere on the MAP (right side) to display the full map
6. tap the Blue Arrow in the bottom middle of the map screen to take you to your current position.

C) **Downloading/caching map information**

MotionX requires cell service to keep the map detail refreshed/accurate as we hike. When we are hiking in an area with no cell service, MotionX cannot always show us map details (trails/etc..). When you think you may be hiking in a no-cell service area, it is advisable to download the map of the area - where you will be hiking - prior to the hike (download in a place where you have WIFI or a good cell signal). *(Note that MotionX will always show your GPS location and track. If ever lost, one can merely return along the track to your starting point, regardless of cell service.)*

1. tap GPS MOTIONX icon on your Iphone

wait a "second", a map will be displayed and the spinning red EARTH icon in the top right will turn blue and green when a strong GPS signal is obtained.

2. with a map displayed, tap the 3 blue lines icon on the top left of screen

3. from the MAP OPTIONS screen, tap MAP DOWNLOADS line near bottom of screen.
4. tap MOTIONX ROAD

now the tricky part: You must move the highlighted circle to the area where you will be hiking. Do this by making the map smaller using the + and - icons (near bottom of screen) and moving the map to show the area to be hiked under the highlighted circle. This may take some practice.....
5. when you have the circle over the area to be hiked, tap the green NEXT button at the top right of screen
6. change the default file name (MotionX Tile Set), tap it and change it - tap done on the keyboard - it is advised, but not required.
7. tap the green icon DOWNLOAD near top of screen
8. when it says download complete, tap the DONE icon on the upper left part of screen - your map detail will now be available for MotionX with or without cell service.

Steps to take immediately prior to using MotionX in the field. (at the Trail Head)

D) Recording your hike

To be able to see where you are, where you are going, where you have been and to record your hike.

1. tap GPS MOTIONX icon on your Iphone
wait a "second", a map will be displayed and the spinning red EARTH icon in the top right will turn blue and green when a strong GPS signal is obtained. (*Note: If any other MotionX screen is being displayed, merely tap the MAP icon at the bottom left of the screen to go to the MAP display.*)
2. tap MENU in bottom right of screen
3. tap RECORD TRACK in upper right of screen. tap Reset if data is leftover from a prior hike. Screen should show 00s. You are ready to go.
4. tap START
5. tap MAP
6. to PAUSE the tracker (say at lunch), tap MENU>RECORD TRACK>PAUSE - this is also where you will restart/reset/ or save. Try to remember to restart the tracker when you continue hiking after lunch. (because I usually forget the restart part, I rarely use the PAUSE feature - just let it run through stops.)

E) Setting up sharing your position with fellow hikers

This feature will show you the positions of any other hiking friends who have turned this feature on, and your position to them. This will show up on your map screen as a small flag with their name displayed (see step 7). This feature requires a cell signal to work. If you are in a weak cell reception area, the performance will not function, or will be intermittent.

NOTE: Steps 1-10 will need to be done the only the first time you use Share position. After that initial setup, MotionX will remember your settings and you will only need to do the steps A-F.

Initial Setup (one time)

1. tap GPS MOTIONX icon on your Iphone

wait a "second", a map will be displayed and the spinning EARTH icon in the top right will turn blue and green when a strong GPS signal is obtained.

2. tap MENU in bottom right of screen

3. tap SHARE on the upper left side of screen
then tap AUTO LIVE UPDATES (middle of the screen)

4. tap the circle beside MAP to turn on live MAP updates

5. tap to turn on AUTOMATIC LIVE POSITION UPDATES at top of screen

6. tap SETUP AND LEARN MORE

7. enter/overwrite the name you want to show on your friends maps in DISPLAY NAME (I use MAC).

8. set the following:

Broadcast position update interval = 1min
Show friends within radius = 100 miles
Display position updates within last = 12 hrs
Channel = 17110

Note: the Share Channel With Friends is used to send an email, and is NOT needed for our purpose.

9. tap DONE in top left of screen, then MAP on bottom left of screen.

10. to turn off AUTOMATIC LIVE POSITION UPDATES (after hike), from the MAP screen, tap MENU at the bottom right of the screen, tap the LIVE UPDATES icon - second down in right-hand column. This will take you to the Auto Live Updates screen, where you will tap the Automatic Live Position Updates button to turn it OFF.

Share location on a hike:

A. tap GPS MOTIONX icon on your Iphone

wait a "second", a map will be displayed and the spinning EARTH icon in the top right will turn blue and green when a strong GPS signal is obtained.

B. tap MENU in bottom right of screen

C. tap LIVE UPDATES on the right side of screen

D. then tap to turn on AUTOMATIC LIVE POSITION UPDATES (top of the screen)

E. tap MAP at the bottom left of screen

F. to turn off AUTOMATIC LIVE POSITION UPDATES (after hike), from the MAP screen, tap MENU at the bottom right of the screen, tap the LIVE UPDATES icon - second down in right-hand column. This will take you to the Auto Live Updates screen, where you will tap the Automatic Live Position Updates button to turn it OFF.

Helpful ? Hints:

1. Tap the BLUE ARROW at the bottom of the map screen (between the - and + signs) twice to get your position centered with the arrow pointed in the direction your phone is pointed. Can be helpful at intersections.
2. When you are done for the day, on your MAP screen:
 - Tap MENU
 - Tap RECORD TRACK
 - Tap PAUSE
 - Tap SAVE if you wish to save the days hike, RESET if you do not wish to save. You can change the name by tapping the default Track Number given and typing in a name meaningful to you.
3. MotionX runs in background on your Iphone. At the end of your hike, you need to insure you have stopped MotionX.
 - double Tap your Iphone Home Button.
 - this will bring up the apps you have opened.
 - swipe UP to close any apps running in background (MotionX)