Virginia State Parks and Avenza Maps

A Learn in 30 presentation

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For PATACS + OPCUG

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Agenda

- How I found the app
- Key features of the app, and why those are useful
- Use the app to obtain trail maps for Virginia State Parks
- Selecting a map for use
- Key features of map use
- Marking your parking place on the map, so you can find it
- NOTE: This app, and its maps, are available on Android and iOS

How I found the app

- I visited Bear Creek Lake State Park in Cumberland County VA during March 2020.
- By my parking space, a park kiosk included a flier advertising a "Virginia State Parks trail maps app" and provided a QR code. I used the QR code to download the app.
- The app is named Avenza Maps. It is free for both Android and iOS.
- The app is not published by VSP.
- VSP does publish free trail maps that can be downloaded within Avenza Maps.

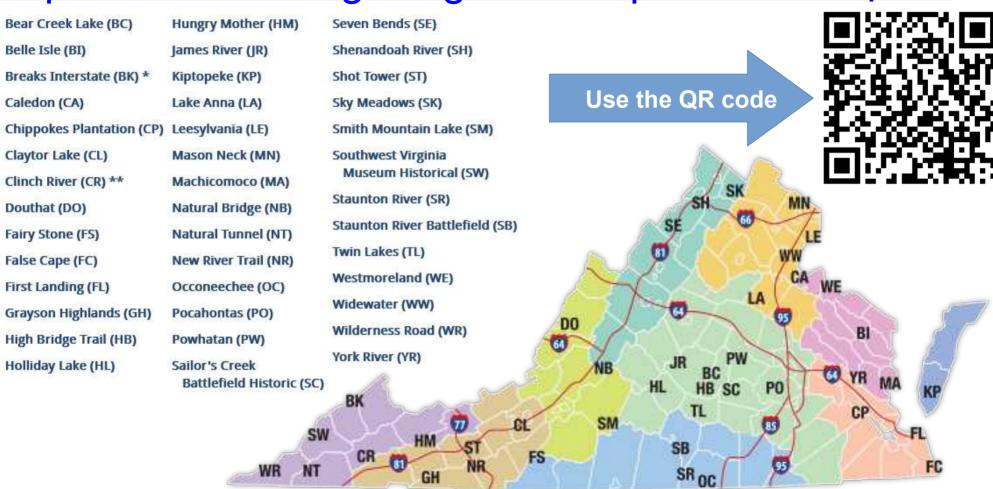
Key features of Avenza Maps

- The app enables you to create *Placemarks*, for instance so you can find your car after a hike.
- The app can record and measure your hiking track.
- Offline maps scroll and magnify faster than online map such as Google or Waze.
- Offline maps use less battery power than online maps.
- Offline maps work where no cell tower service exists.
- Offline maps are ideal for use on a retired smart phone, to conserve battery charge on your current smart phone.

VSP includes 41 state parks

- The newest are Machicomco State Park in Gloucester County and Seven Bends State Park near Woodstock VA on I-81.
- Nearby state parks include Mason Neck (Fairfax), Leesylvania (Stafford), Sky Meadow, and Shenandoah River.
- In development: Clinch River, in southwest VA.
- Many state parks feature water recreation such as swimming pools, beaches, fishing, river access and/or lake access.
- Many have extensive networks of hiking trails. And geocaches.
- Many parks have a Visitors Center and Gift Shop or Camp Store.

https://www.dcr.virginia.gov/state-parks/find-a-park



VSP Admission Fees

- Most parks charge a parking fee per car
- Annual passes are available at a steep discount, sold at park stores and entrances
- Annual pass covers either a single park of your choice, or all parks
- Pay for parking at one park, use that for free admission to other parks on the same day

Other VSP maps

- You can obtain a free printed map of park roads, buildings, parking lots and trails, at the entrance to each park
- The same map can be downloaded as a PDF file from the park web site

Use the Avenza Maps app to download VSP trail maps

- This info was developed using Avenza Maps v3.1.4
- Install the Avenza Maps app, and start it.
- The app will prompt you to create a free Avenza account; you
 provide a valid email address and an account password.
- You must create the account in order to download maps.
- The app will send an email confirmation to the email address you specify. You must click the **Confirm button** in the email.
- After that confirmation, click the **X** in the upper right corner of Page the app's My Account screen.

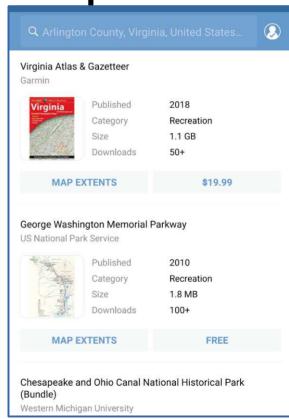
The My Maps Screen

- Initially, it contains only the Getting Started document.
- To find and download maps, tap the Shopping Cart icon at the bottom right corner



Using the Store Screen to download VSP maps

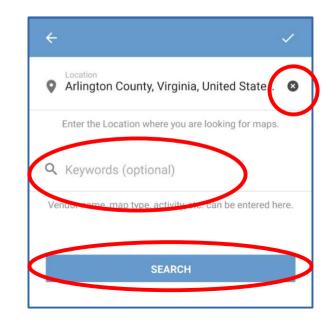
- The Store Screen appears.
- Initially, the screen displays maps covering your location. This list is long; scroll down to see all of it.
- Where I live, in Arlington, none of the VSP maps cover my location. So no VSP maps were listed.
- Some of the listed maps cost money, such as the Virginia Atlas & Gazetteer.



Using the Store Screen to download VSP maps

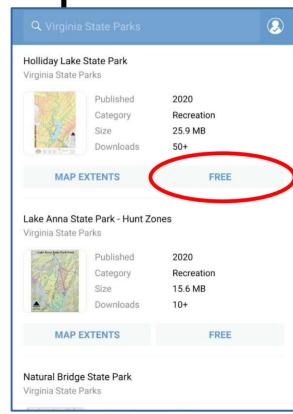
- Tap the Search field at the top of the Store screen.
- The current Search Criteria screen appears.
- Delete the Location criterion by tapping the circled X.
- In the Keywords field (also circled),
 type: Virginia State Parks
- Tap the blue **SEARCH** bar. Page 12





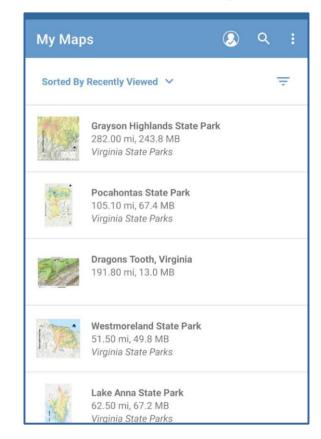
Using the Store Screen to download VSP maps

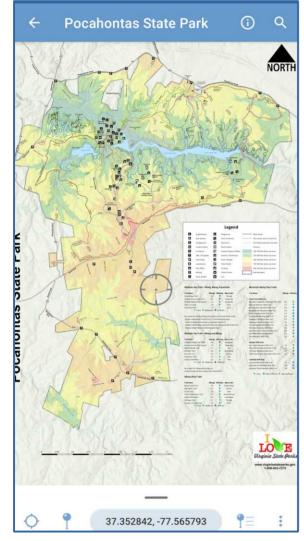
- The Store screen reappears, and now lists VSP maps. Again, it is a long list.
- Tap the Free button to download a map.
- The word Free changes to **Download?** Tap it again.
- The word Download changes to Processing. This is a temporary state.
- The word Processing changes to Open.



Using a downloaded VSP map

- In the Store screen, tap the **My Maps** icon in the lower left corner (not shown). The **My Maps screen** appears.
- All downloaded maps are listed in My Maps.
- To use a map, tap it.

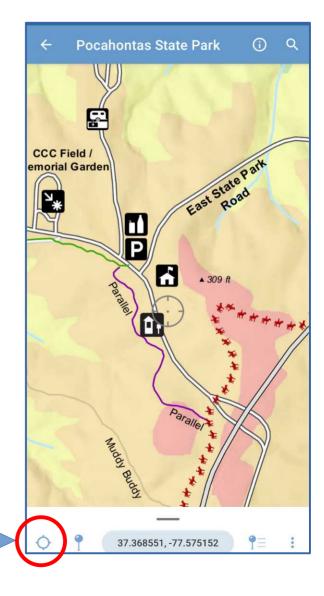




Page 15

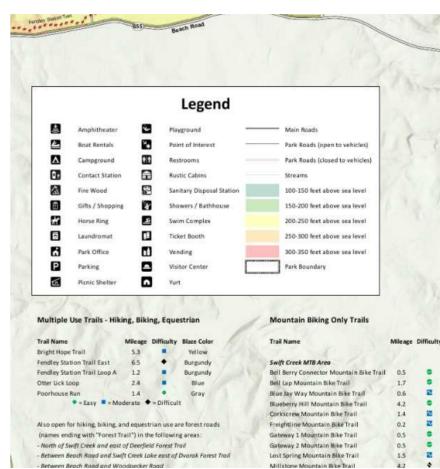
VSP map use

- Default view when open is the entire map
- To zoom in, "Unpinch" with two fingers
- To zoom out, pinch with two fingers
- Scroll with one finger
- Tap this CENTER ON ME icon to cause the map to follow your movement



VSP includes permanent

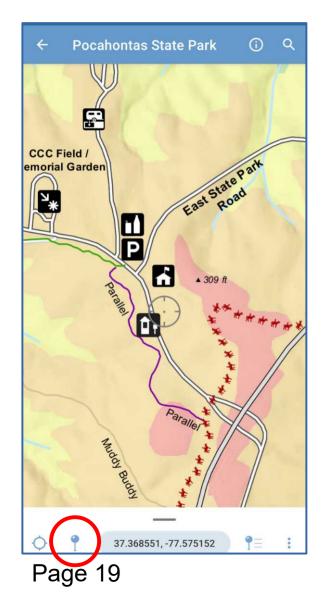
- VSP includes permanent
 placemarks for restrooms, WiFi, swimming, gift shops, camp stores, and other park features.
- VSP legend notes trail blaze colors, trail lengths and trail difficulty ratings.
- VSP legend also notes trails that are multi use, in case you want to ride bikes, or avoid bikes, or ride horses, or avoid horses



Map Placemarks

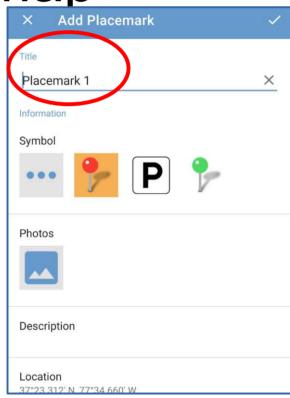
What is a Placemark?

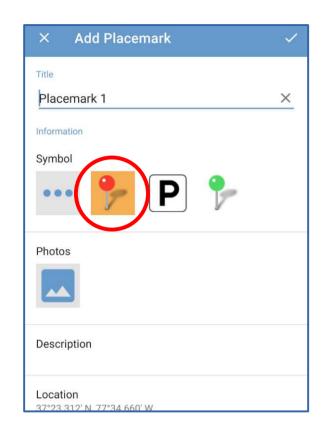
- In map jargon, a Placemark is an identified Waypoint place on a map
- Also known as a Point of Interest
- App users can create *custom electronic* Points of Interest



Mark your parked car on the map

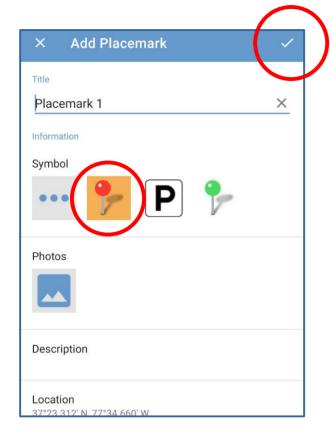
- Stand by your car. Tap the CENTER ON ME icon.
- Tap the Pushpin at the bottom left of the Map screen (circled at left).
- The Add Placemark screen appears.
- Type My Car in the Title field.





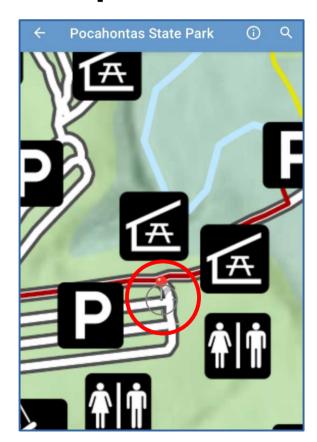
Mark your parked car on the map

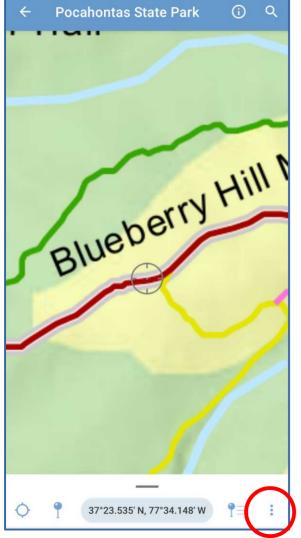
 Tap the red pushpin symbol



Mark your parked car on the map

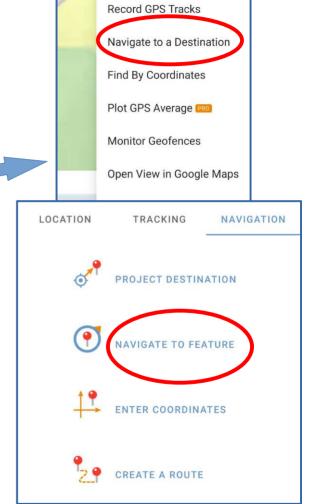
- Tap the red pushpin symbol
- Tap the check-mark in the upper right corner
- The pushpin appears on the map





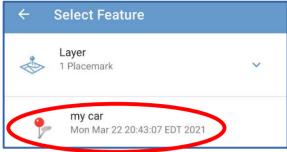
Finding your car

- While using the map, tap the three-dot icon in the lower right corner
- A menu appears.
 Select the Navigate to a Destination choice.
- The Navigation menu appears. Select the Navigate to Feature choice.

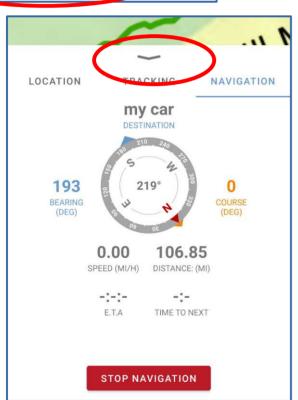


Draw and Measure

Page 21

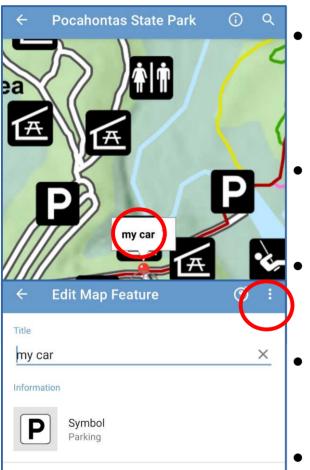


Finding your car



- The app displays the **Select Feature** screen. Tap the **My Car** feature.
- The app displays the Navigation compass, showing the direction (blue pointer) and air distance to My Car.
- Swipe down on the down-arrow to see the trail map again.

Removing My Car from the map



Tap the red pushpin icon on the map. The **Placemark** name pops up. Tap the name.



The Edit Map Feature screen appears. Tap the three-dot icon in the upper right corner.

A menu appears. In that menu, tap the **Delete** choice.

Photos

Warning

Delete map feature

- A **Warning** window appears. In that window, tap **Yes**.
- The map reappears.

Tracking your hike

What is a track?

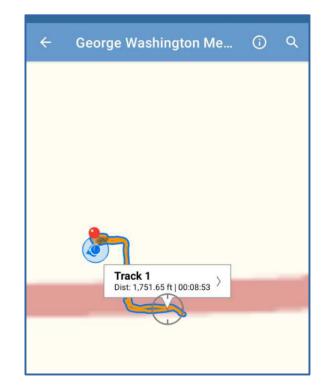
- An electronic record of the path you travel.
- The track includes duration and distance traveled.
- You can give the track a meaningful name.

Why are tracks useful?

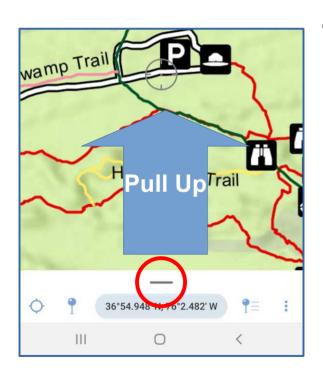
- While hiking, a track helps you to backtrack
- Later, helps to document the duration and distance traveled
- Useful if you want to plan to redo the same hike provides a duration example
- Useful for exercise records
- Learn to recognize your limits

An example of a track

- Track appears as an orange line on the map
- The name, distance and duration of travel all appear in the track label box

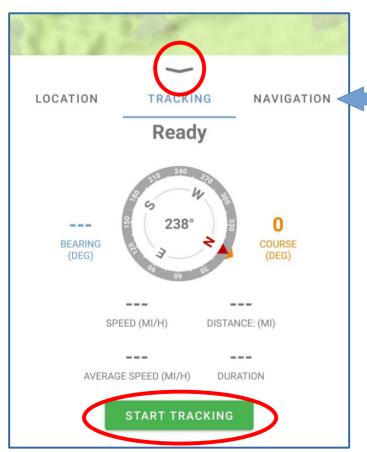


How to start a track



 Pull up the coordinates info at the bottom of the map screen

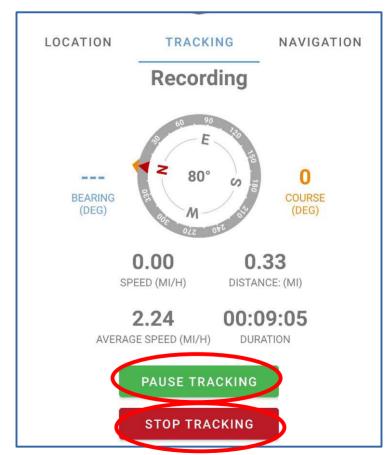
How to start a track



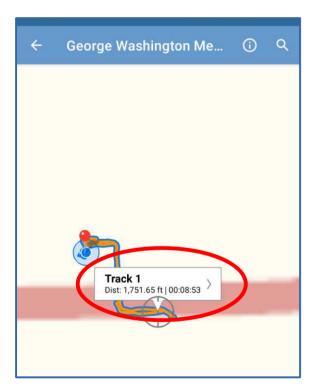
- Reveals three tabs: Location,
 Tracking and Navigation
- Tap the Tracking tab
- Tap the green Start Tracking bar
- Return to the map by sliding down the down-arrow (circled)

While you are hiking

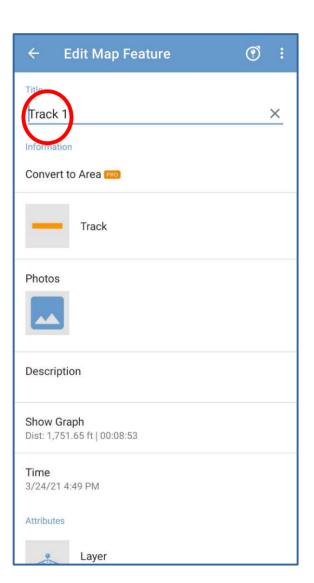
- You can see the current duration and distance traveled at any time by returning to the Tracking tab
- You can pause the track by tapping the green Pause Tracking bar
- You can end the track by tapping the red Stop Tracking bar



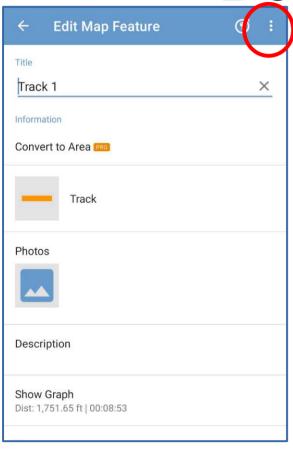
Naming Tracks



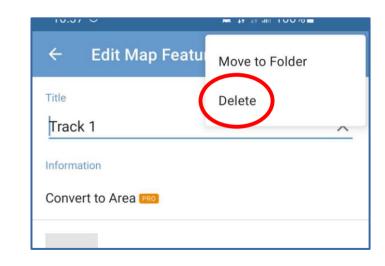
- Each track is saves with a generic name.
- You can rename a track by tapping its box on the screen (circled).
- The Edit Map Features screen appears.
- Use the **Title field** to rename the track; such as Locale and Date.



Deleting a saved track



- In the Edit Map
 Feature screen, tap
 the 3-dot icon at the
 top right (circled).
- A menu appears.
- In the menu, tapDelete



Map Updates

VSP sometimes updates its maps

- In the My Maps screen, tap the three-dot icon in the upper right corner.
- A menu appears. In that menu, select the Check for Map updates choice.
- If all maps are up to date, then the screen will display that status report briefly at the bottom.
- If an update is available for a map, then the words UPDATE
 AVAILABLE will appear to the right of the map.
- Tap UPDATE AVAILABLE to download the updated map.

Photos I have shot in VSP



Grayson Highlands State Park

Seven Bends State Park

Hungry Mother State Park

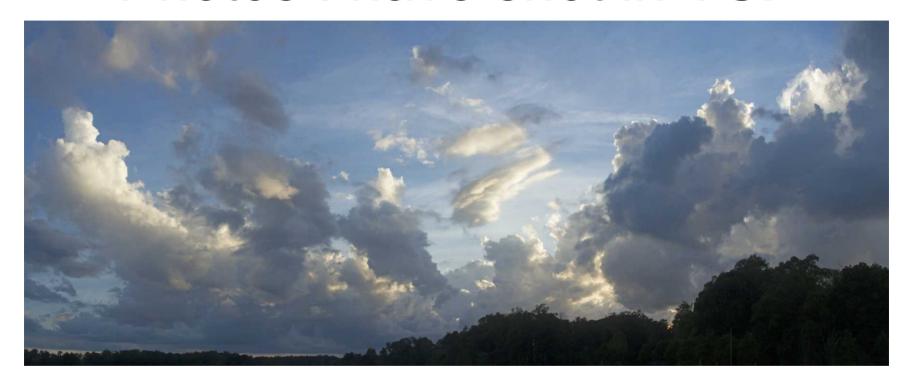


Photos I have shot in VSP



Grayson Highlands State Park view to northeast

Photos I have shot in VSP



Chippokes Plantation State Park, after a thunderstorm

THE END