



Elevation for iOS

User Guide

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1. About



Welcome to the **Elevation** for iOS user guide!

Thank you for choosing **Elevation**.

The app is an altimeter and barometer that allows users to find their current elevation, altitude, and height above sea level. It can observe elevations of all locations on the surface of the earth, using either touch and move the map around, inputting the address/location name, built-in GPS, or barometer on the device.

The app also provides Cloud-based altitude data, GPS altitude data, standalone barometer, air pressure/altitude calculator, support for coordinate formats, and export of data. The app can be useful for flood prevention, prediction of water levels in rivers, lakes, and seas, planning for a hiking trip, and more.

We hope that this documentation will help you get the most out of the app and achieve your mapping and data analysis goals.

2. Disclaimer

- Please note that the screenshots in this documentation are taken from the iPhone version of the app. The iPad version of the app has the same features, but the screens may appear differently due to the larger screen size.
- Please note that while the app is available in many languages, the instructions provided in the documentation are currently only available in English. The names of buttons and the text that appears in the localized versions of the app may differ from the English version, but the intended features and functionality of the app should remain the same as described in the provided instructions.
- This app is intended to be a companion tool for use on the go, but it may not always be accurate. We have tried to make it as accurate as possible, but there may be some inaccuracies due to factors such as GPS signal quality, bugs, etc. Please double check with professional equipment if necessary. We are not responsible for any damages or loss of life resulting from the use of this app in dangerous environments.
- If you cannot afford to lose data, please make frequent backups to protect against unforeseeable data loss.

3. Download Link

iOS Version (iPhone / iPad)

<https://apps.apple.com/us/app/elevation-altimeter-map/id480740433>



Android Version

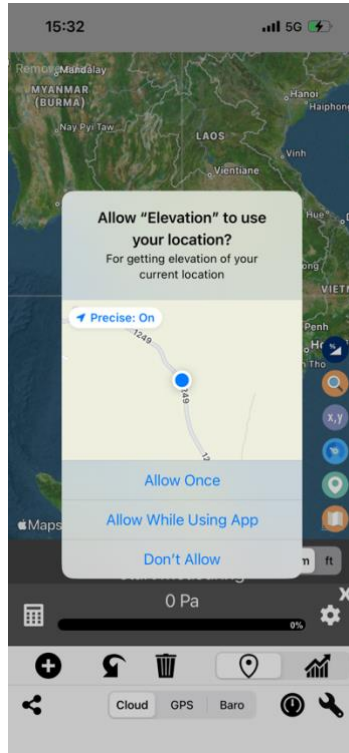
<https://play.google.com/store/apps/details?id=com.myice92.elevation>



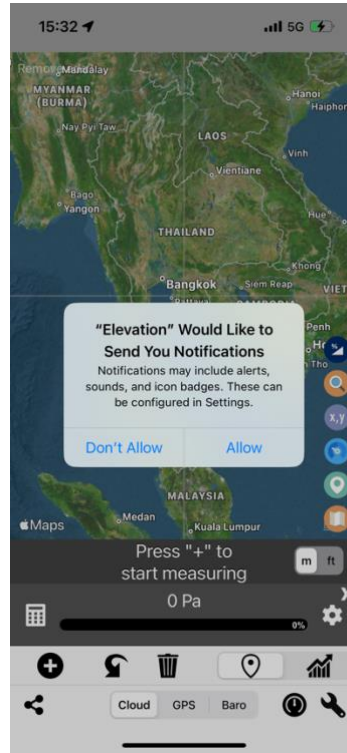
Note: This instruction applied to iOS Version Only.

4. Launching the app for the first time

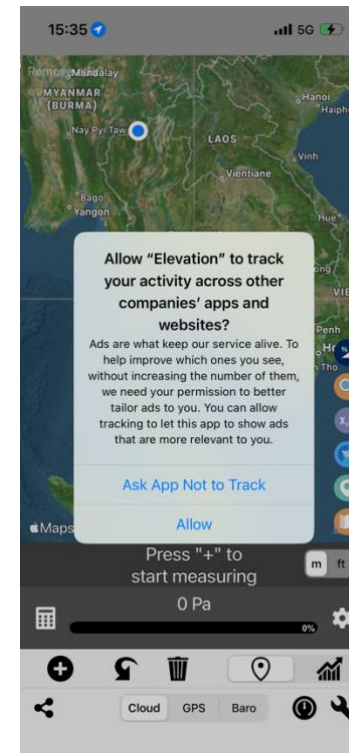
You will see these popups right after you launch the app. Please make sure you choose the right one to suit your need for the app to work correctly.



Notification Request Popup



Location Permission Request
Popup



Ad Consent Popup

5. Map Screen (Main Screen)

You may press on the link provided to skip to more detail explanations of each button/feature.

The screenshot shows a mobile application interface for a map. A red pin is placed on a mountain peak. The interface includes a top status bar, a map area, and a bottom navigation bar. Callout boxes provide detailed information about various features and tabs.

Barometer Tab

- Altitude / Air Pressure Calculator
- 82,776 Pa Current Air pressure
- 82% Air pressure relative to sea level
- Barometer Setting
- Close Tab

Coordinates Tab

Latitude: 45.174759
Longitude: 10.910081

Slope Tab

Distance: 202187.4 m
Slope %: -0.82%
Horizontal Dis: 202180.7 m

- Add pin
- Undo add pin
- Delete all pins
- Select Mode
- Single Point Mode
- Range Mode (Read)

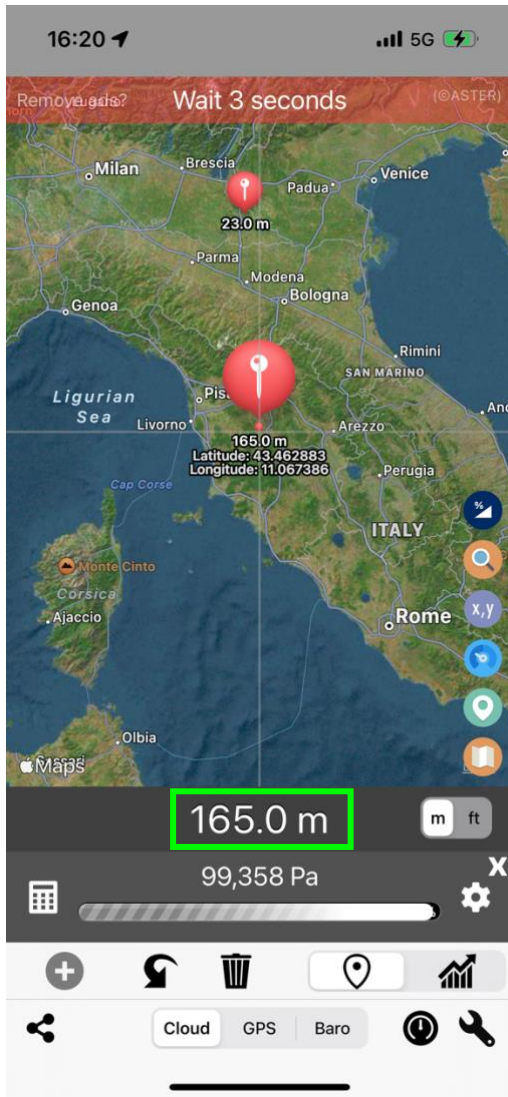
1673.0 m Elevation Result

m ft Switch Unit

- Slope (On/Off)
- Search Location
- Coordinates Tab (On/Off)
- Barometer Tab (On/Off)
- Go to Current Location
- Change Map

- Share Result
- Switch between modes (Cloud/GPS/Barometer)
- Barometer Menu
- Setting

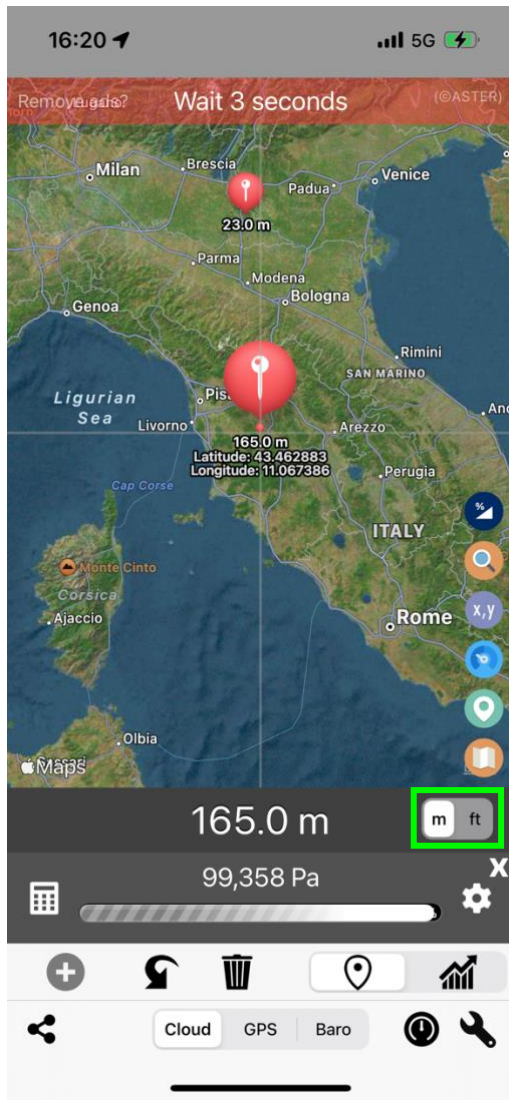
6. Basic usage



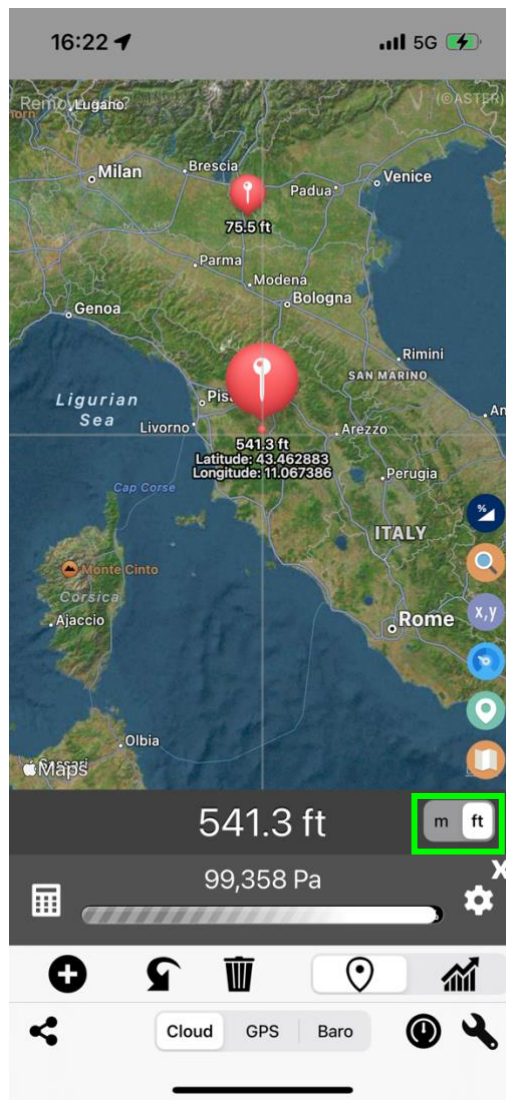
6.1. Navigate

Follow these simple steps:

1. Just find your location in the center of the screen (where the grey-line intersects)
2. Press (+) Button
3. Result will appear on the screen.



"m" tab pressed



"ft" tab pressed

6.2.Change Unit



Press either "m" or "ft" to switch between units.



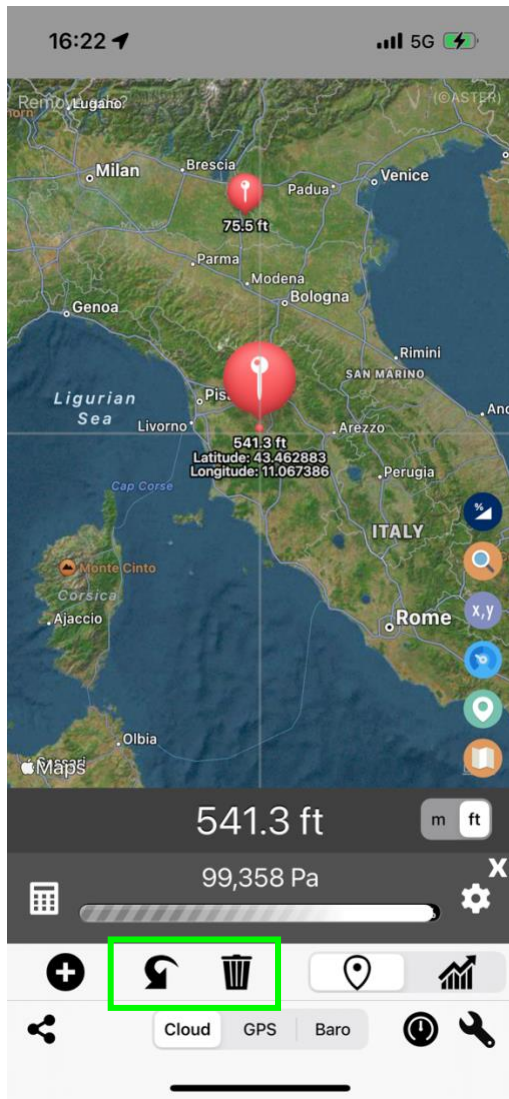
6.3. Show Coordinates

To show coordinates point alongside the result. Press Coordinates button on the right of the screen.





Latitude and Longitude value will be shown on the screen.

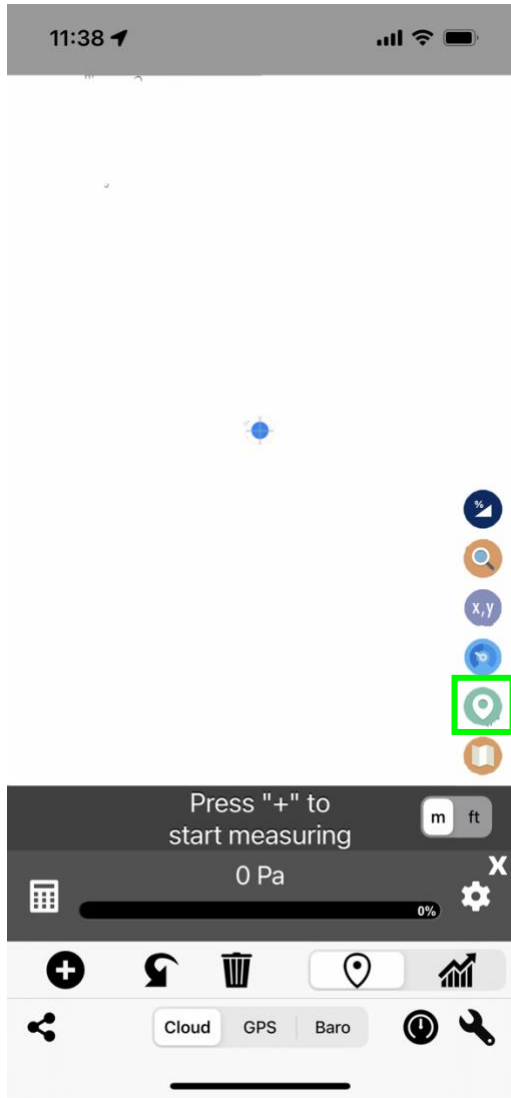
Press "X" to close tab.



6.4. Undo / Delete all pins

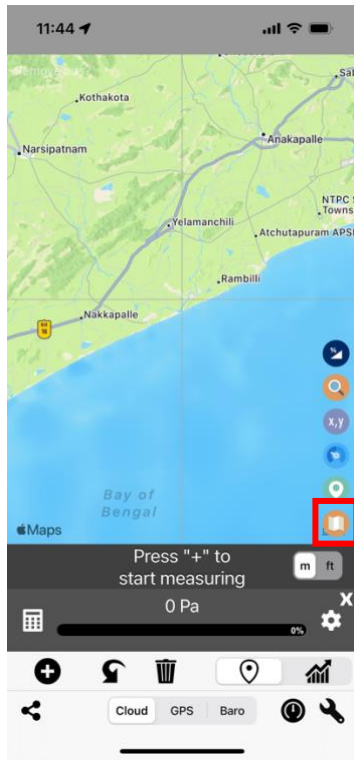
Press “Undo”() button to delete last pin.

Press “Delete All” () button to delete all pins.

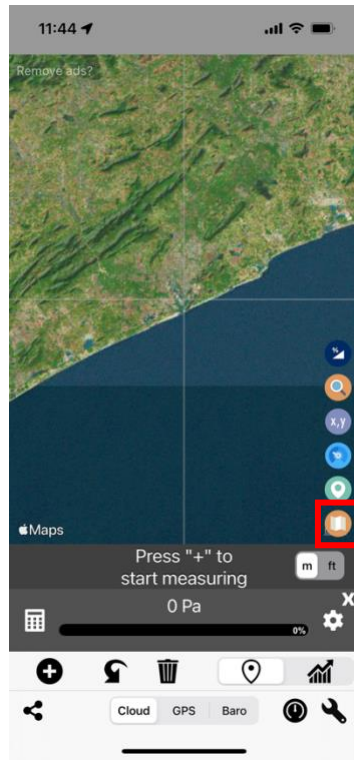


6.5. Go to current location

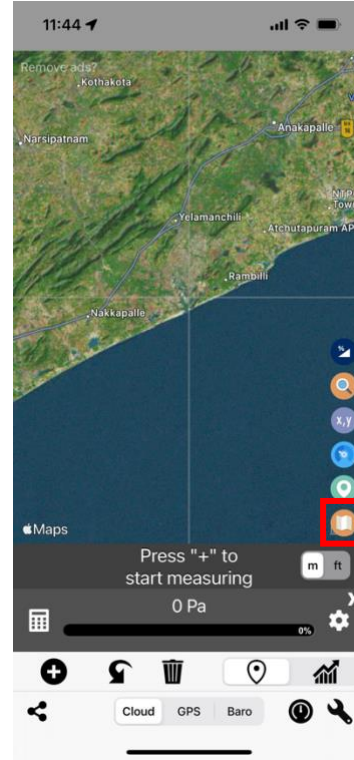
Press "**Location**" (📍) button one to move the map to current location



Normal Map




Satellite Map

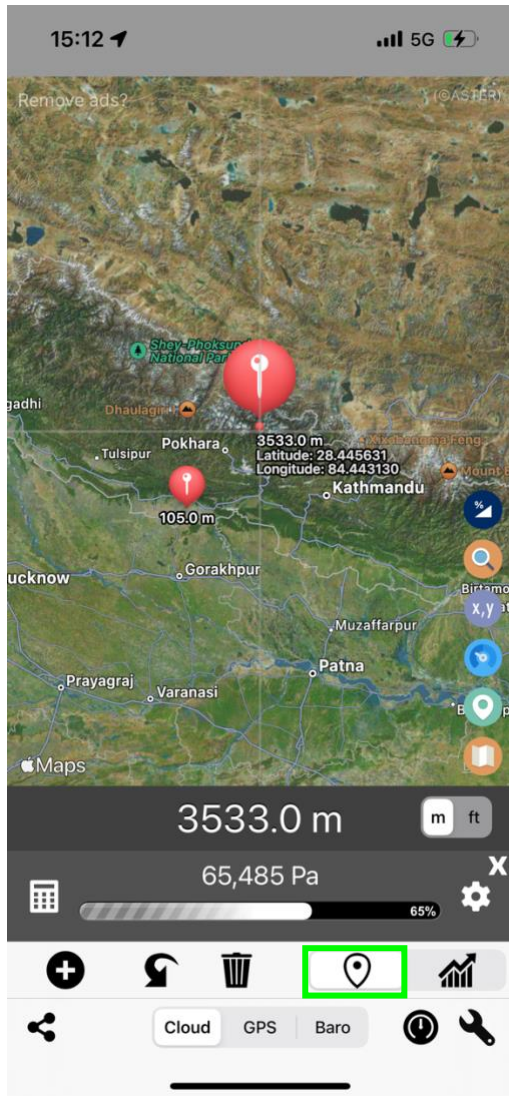


Hybrid Map

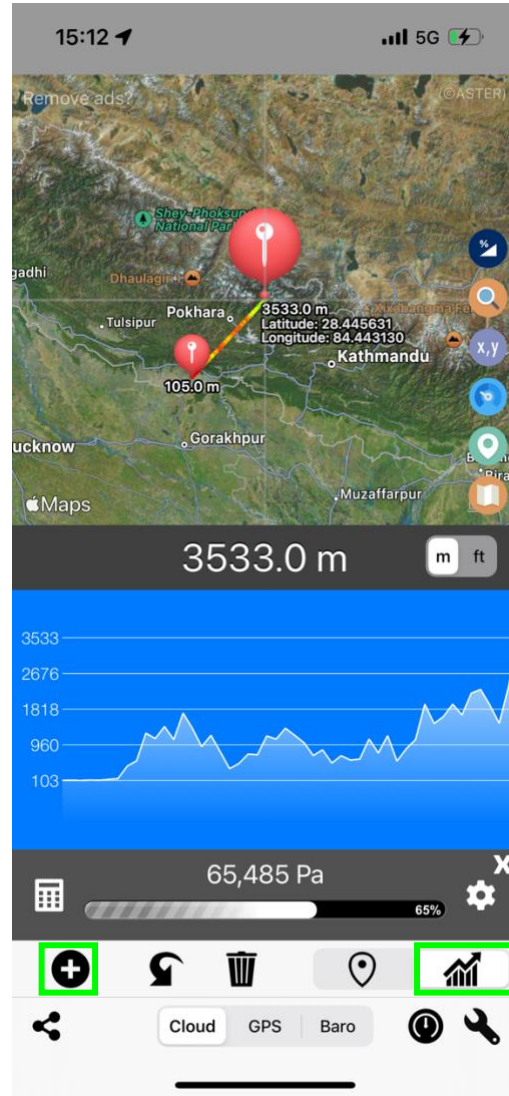
6.6.Change Map

Press "**Map**" () button to switch between map layers.

- Normal map – Standard vector map
- Satellite map – Satellite map
- Hybrid map – Satellite map with street and point of interest



Single Point mode



Range mode

6.7. Switch to range mode

You can plot elevation profile through this mode.

Press “Range” (📊) to switch to Range mode.

To operate range mode:

1. Move map to starting location.
2. Press (+) to drop first pin.
3. Move map to finishing location.
4. Press (+) again to drop the pin.

Chart will be drawn on the screen.

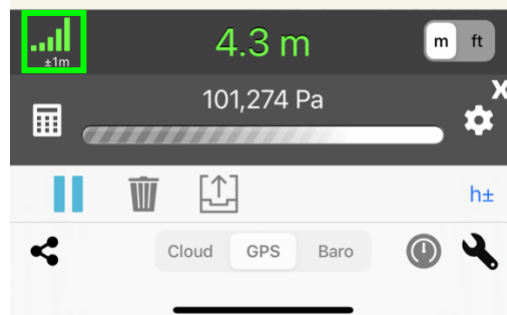
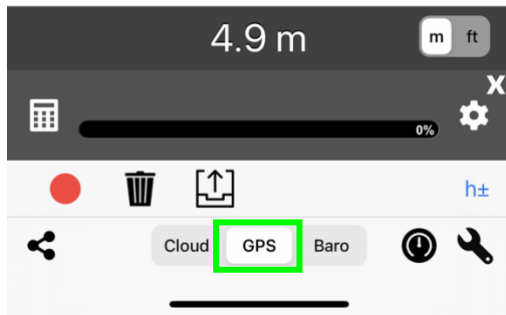
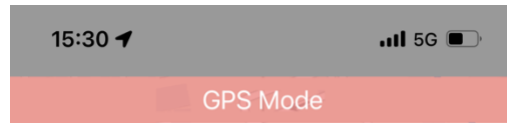
Repeat step 3 and 4 to keep measuring.



6.7.1. Slope Calculation


Press “Slope” (📏) to show slope information between two points.

- Distance
- Slope Percentage
- Horizontal Distance

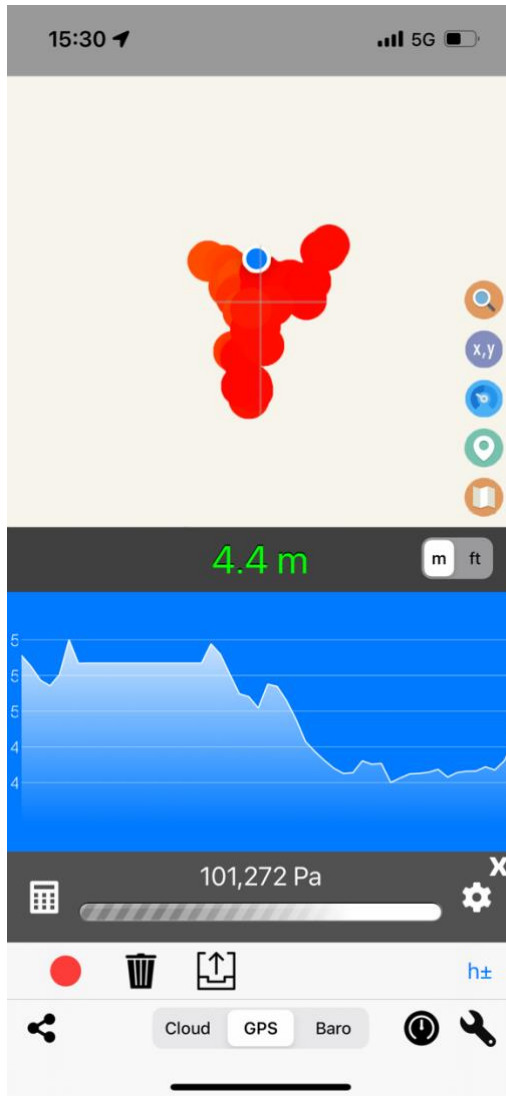


6.8. GPS Mode

This mode will measure elevation from your device's GPS sensor.

1. Press "GPS" button to switch to GPS mode
2. Once you are in GPS mode press "Record" (●) button to start measuring
 - Current elevation will be shown in green color.
 - Accuracy indicator () is also provided. In this example, result is accurate to +1m to -1m.
 - Red color dot/line will be drawn on the screen for the path you taken.
3. Press "Pause" (||) button to stop measuring.

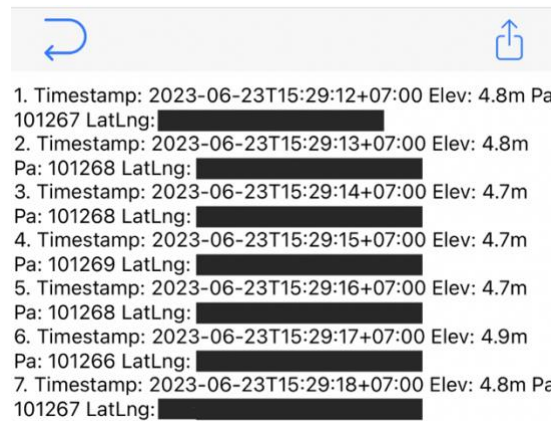
Please Note that screenshot has been edited for privacy purpose.



6.8.1. View GPS measurement result

Once you press pause button (Read 6.5.2). Result will appear on the screen.

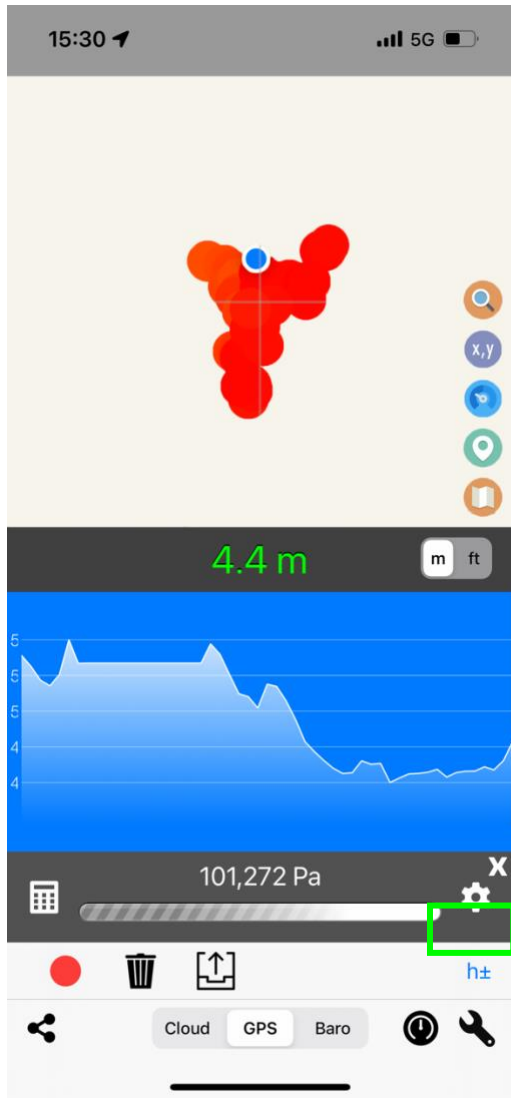
From here you can export timestamps, coordinates, elevations, and barometer data by pressing “Export” (📄) button.



Once you are in export menu. You can press “Export” (📄) button to export data to other apps. Then press “Return” to exit export menu.

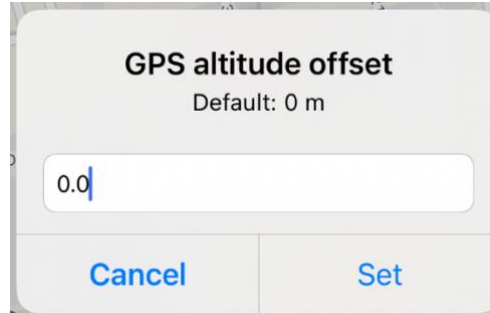
Press “Record” (●) to continue measuring.

Press “Delete all” (🗑️) to delete all result and start over

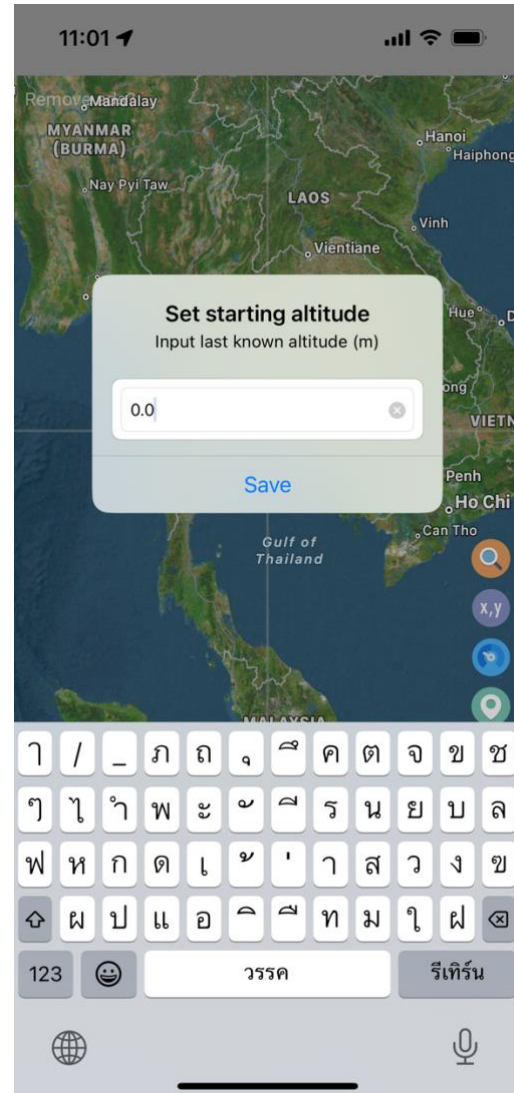
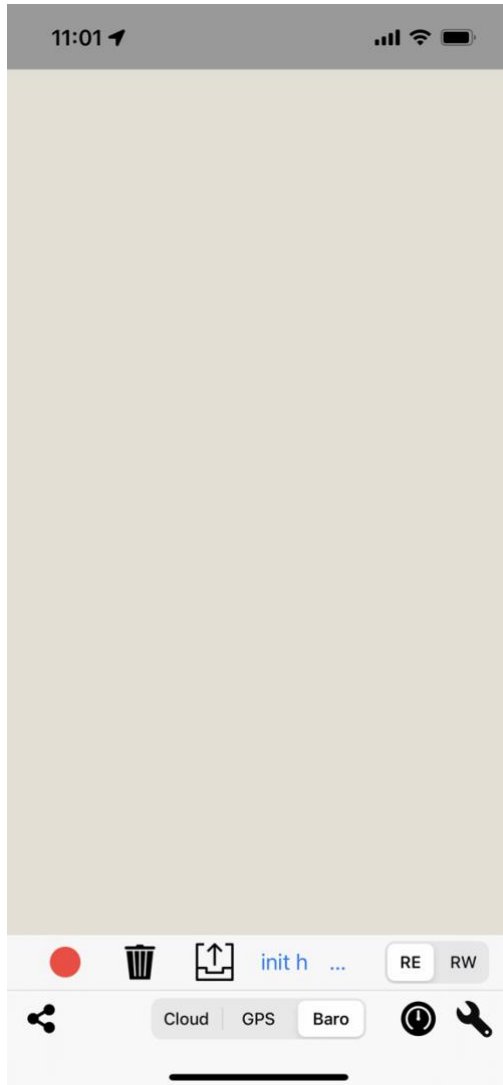


6.8.2. Extra micro GPS elevation adjustment

If you find elevation result off by few meters you can add offset value by pressing “h±” button.



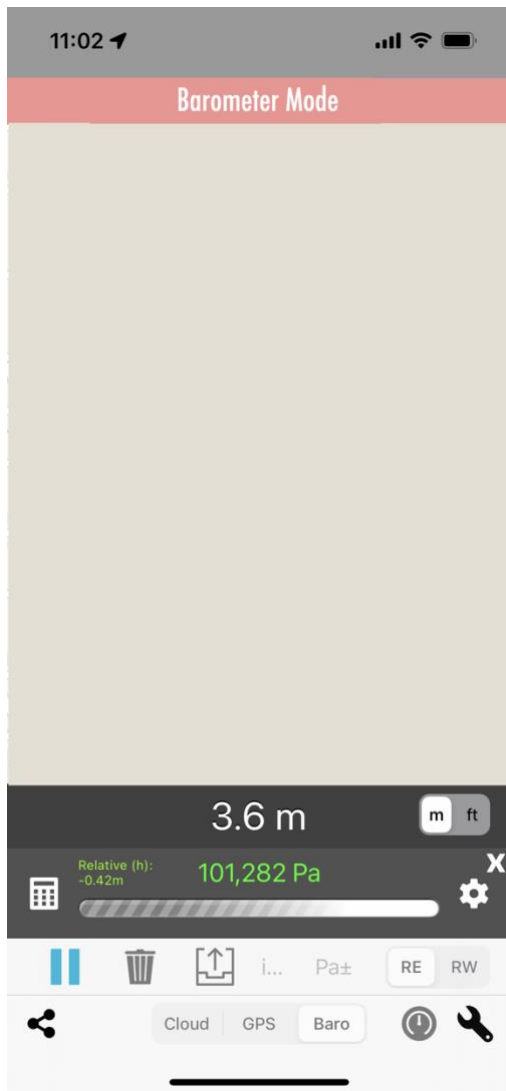
Input number in meter (eg. -0.1, 0.1) to add offset.




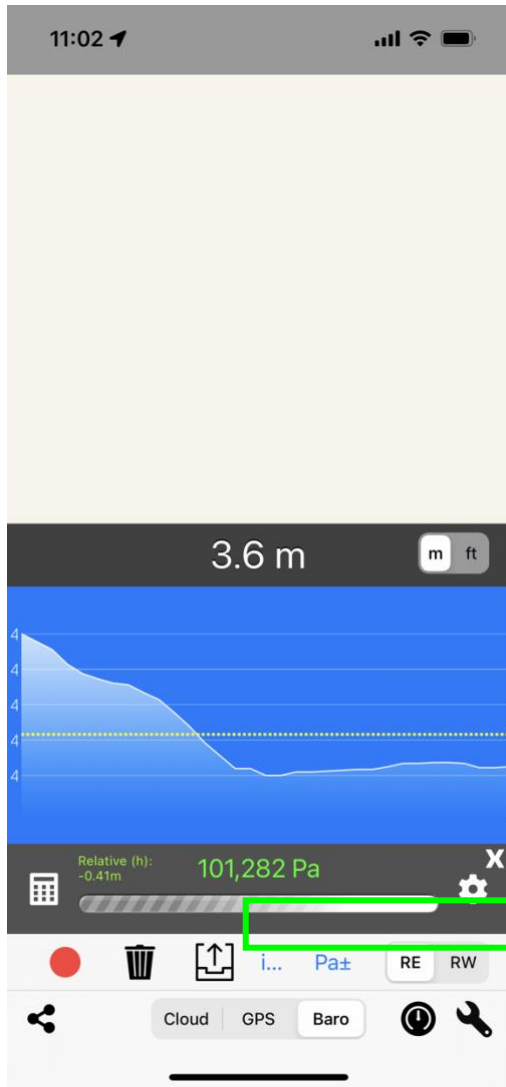
6.9. Barometer mode

This mode will measure elevation from your device's Barometer sensor.

1. Press "Baro" button to switch to Barometer mode
2. Press "Record" (●) button to start measuring.
3. Set starting altitude of your current location.

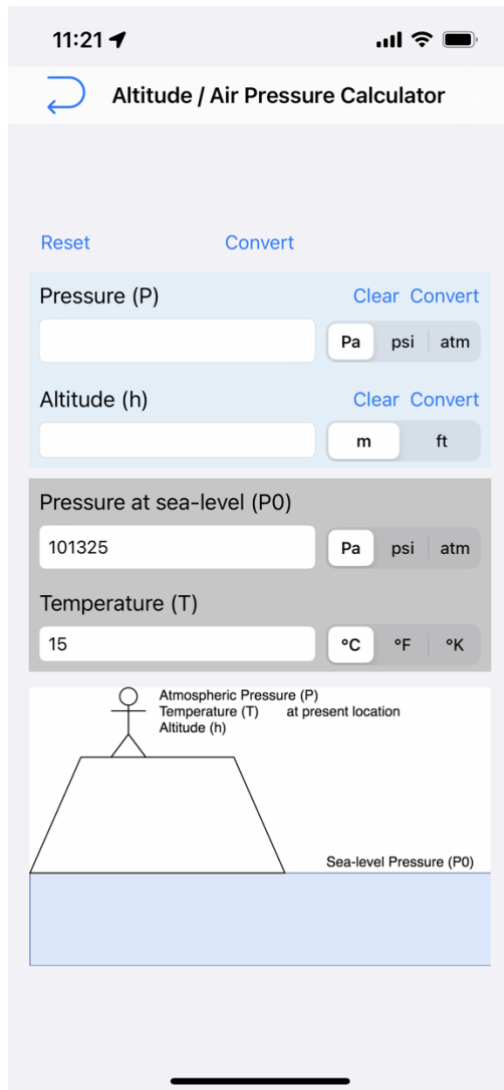


- Current air pressure will be shown in green color with current elevation calculated above.
 - Relative height different is also provided as tiny green text.
 - Red color dot/line will be drawn on the screen for the path you taken.
4. Press “Pause” () button to stop measuring. Result will be shown on the screen similar to GPS mode (See GPS Mode Result)




6.9.1. Barometer Adjustment

- **Init (i...)** to set initial height
- **Pa±** to set Pressure offset
- Set **RE** to use relative height
- Set **RW** to not use relative height



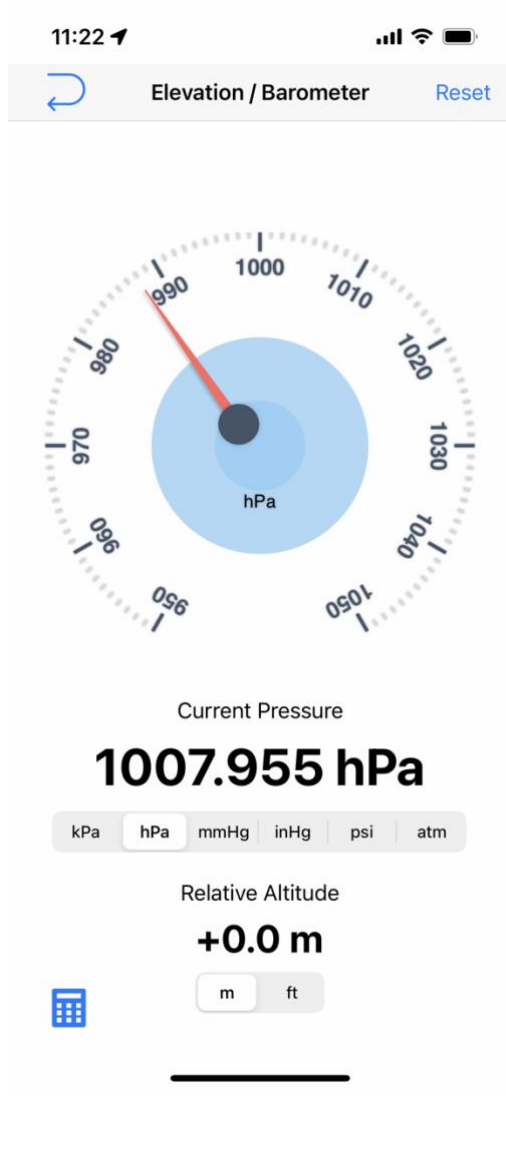
7. Altitude / Air Pressure Calculator




Access this menu by pressing () icon.

Use this page to calculate between Pressure (P), Altitude (h) with provide Pressure at sea-level (P0) and Temperature (T).

For more information. Read: <https://www.mide.com/air-pressure-at-altitude-calculator>




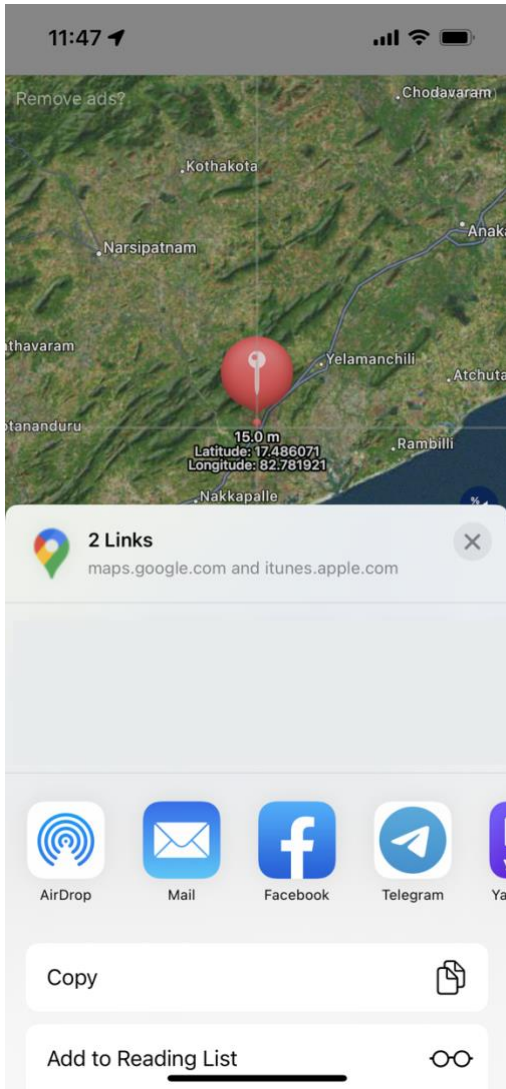
8. Elevation / Barometer

Access this menu by pressing () icon.


From here you can use the app as dedicated barometer with current pressure and relative altitude data provided.

It is possible to:

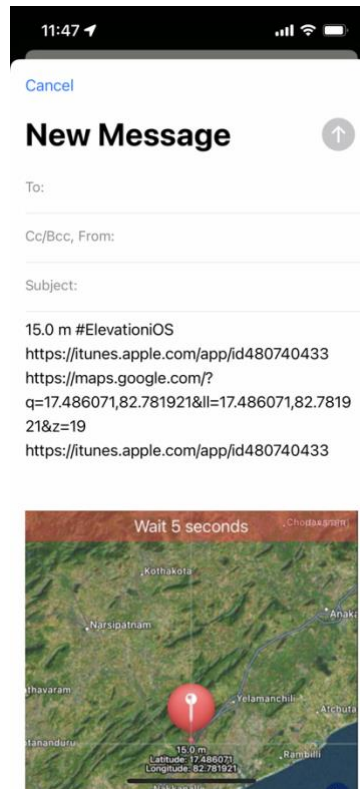
- Change unit by pressing on unit segment.
- Press reset to start-over
- Press () icon to go to Altitude / Air Pressure Calculator

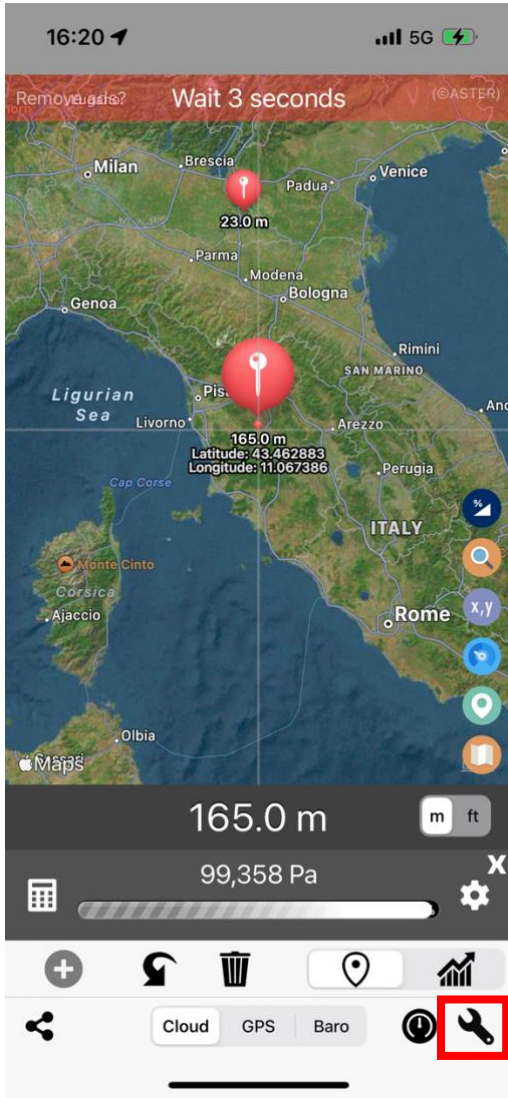


9. Share

Press Share button () to share result to any apps.

In this example, we share to Mail app. Share data includes elevation, App download URL and Google Map to pinned location.

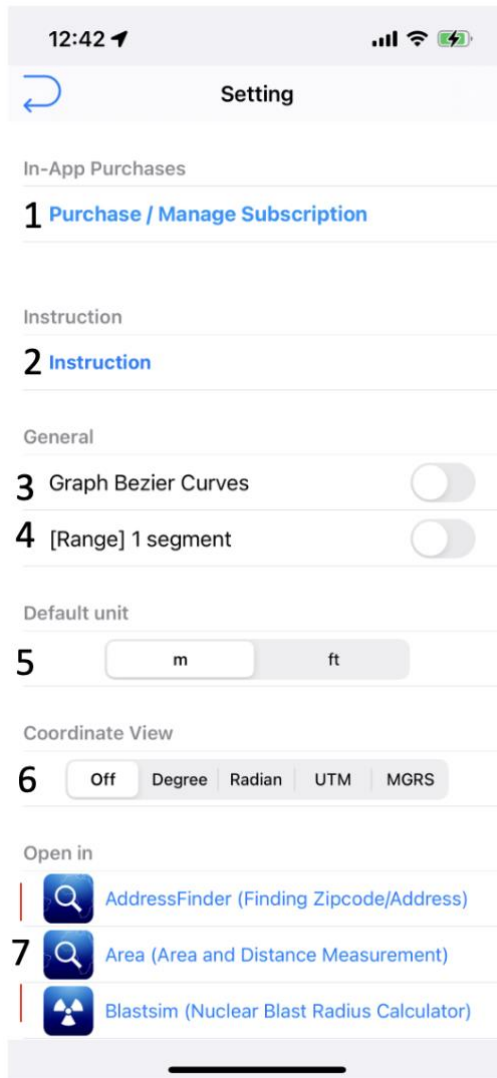




10. Setting

10.1. Access

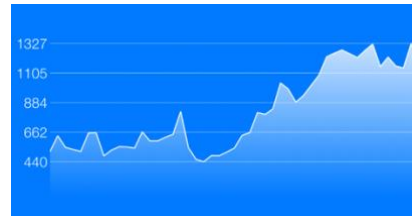
Press “Setting” (🔧) button to access setting menu.



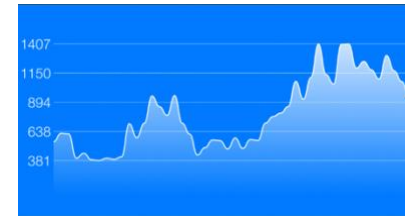
10.2. Setting 1

Press "**Wrench**" button to access setting menu

1. You may purchase / manage optional subscription to remove ads from this application by pressing "**Purchase / Manage Subscription**" button.
2. Go to Instruction website. <https://mapnitude.com/elevation>
3. Enable Smooth range graph.



Off



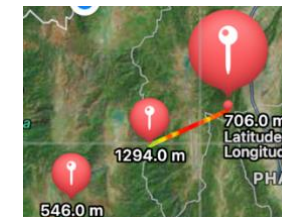
On

4. Plot Range graph for one segment only. In this example, three pins are placed on the map. From A, B, and C. Left to right.



Off

(Show range between all pins)




On

(Only show range from B to C)

5. Select default height unit



6. Select coordinates type that is shown after pressing () button

a. Off – Turn off coordinates tab at launch

Latitude: 19.201195 X

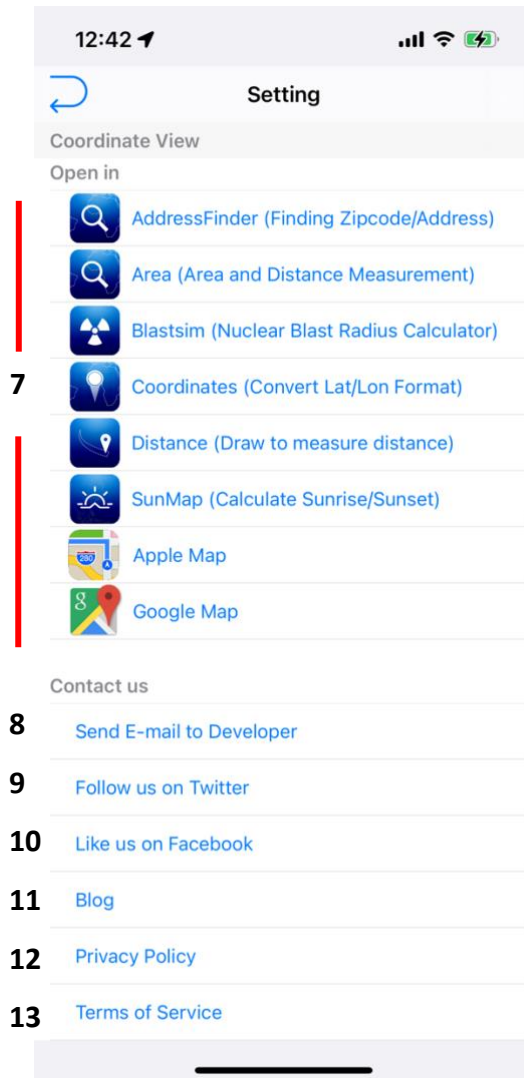
b. Degree Longitude: 99.901527

c. Radian N 18° 26' 38.558807" X
E 100° 14' 12.484131"

d. UTM 47Q 651725 1988870 X

e. MGRS 47Q PV 36726 86511 X

7. Open center coordinates in different apps.



10.3. Setting 2

8. Send email to developer

Alternatively, you can send a message us through these channels.

<https://mapnitude.com/support>
support@mapnitude.com

Please feel free to talk to us regarding app update feature suggestion, bug reports, etc.

9. Go to our Twttr.

<https://twitter.com/mapnitude>

10. Go to our Facebook page.

<https://www.facebook.com/mapnitudeapps/>

11. Read our blog. We are mostly active here.

<https://mapnitude.com/blog>

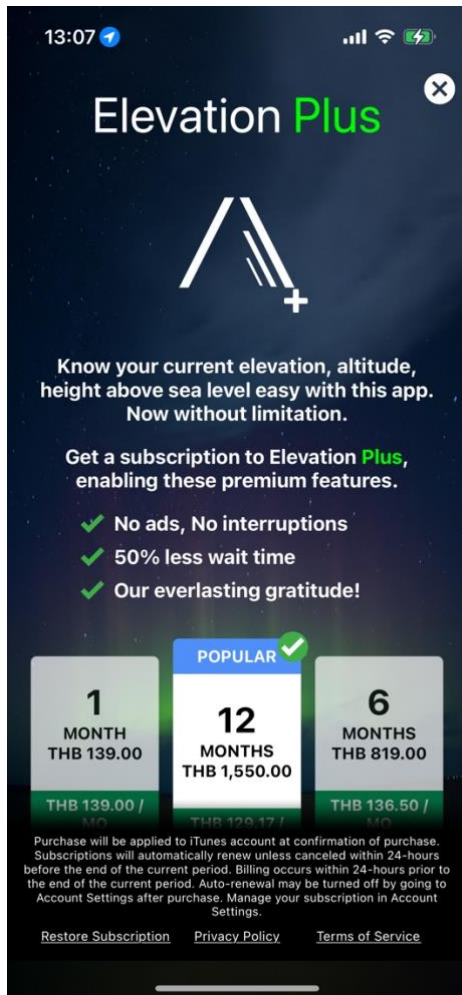
12. Privacy Policy

<https://mapnitude.com/privacy-policy>

13. Terms of Service

<https://mapnitude.com/terms-of-service>

11. Subscription

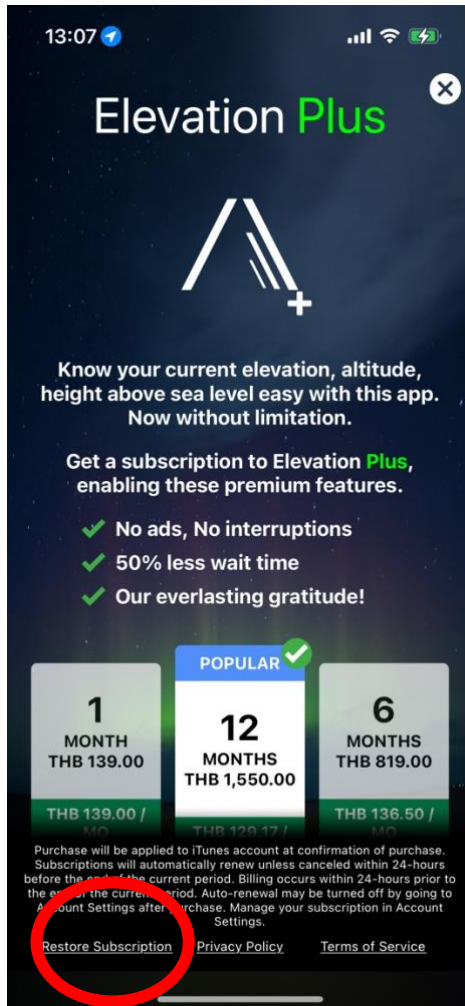


11.1. Purchase for subscription

If you would like to upgrade your app experience and remove ads, you can purchase a subscription. To do so, follow these steps:

1. Access app setting by pressing on "**Setting**" (🔧) button
2. Tap on the "**Purchase/Manage Subscription**" option in the setting menu.
3. Review the subscription options and select the one that you prefer.
4. Tap on the "**Continue**" button to begin the purchase process.
5. Follow the prompts to enter your payment information and complete the purchase.

Please note that purchasing a subscription is optional and not required to use the app. All features of the app are available to all users, whether or not they have purchased a subscription.



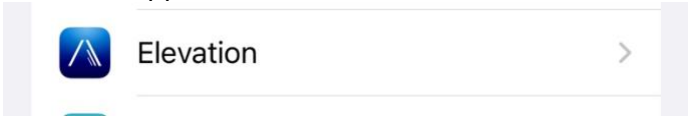
11.2. Restore subscription

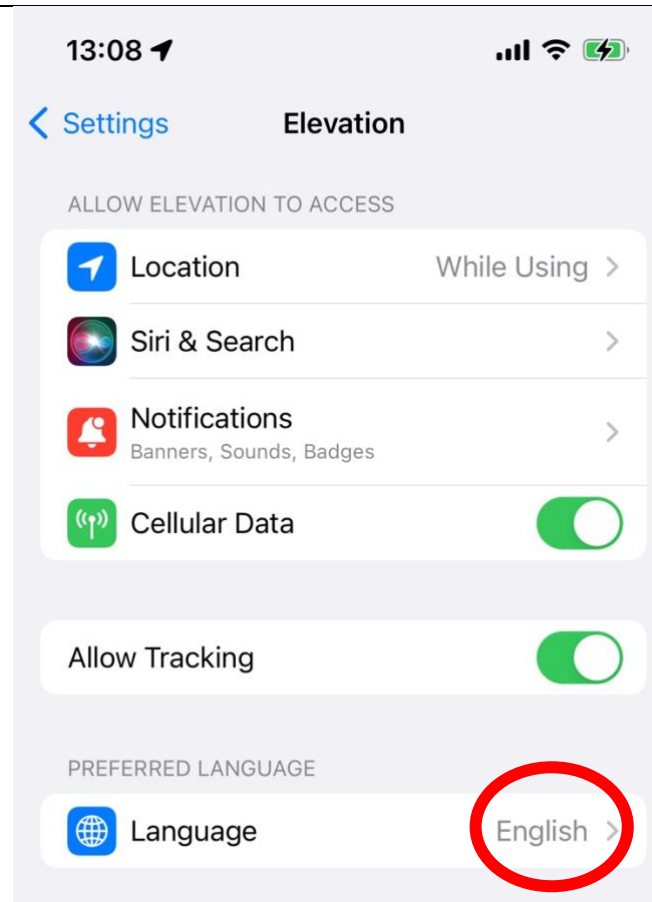
If you have previously purchased a subscription and it has not yet expired, but ads are still appearing in the app, you can try to restore your subscription to remove the ads again by following these steps:

1. On the "**Purchase/Manage Subscription**" page, press the "**Restore Subscription**" button.
2. Login to the same Apple account that you used to purchase the subscription, then follow instructions.

12. Troubleshooting

Most of the workaround are taken from <https://mapnitude.com/faqs>

<p>The map contain false information. Cloud all over the place. Satellite image out of date.</p>	<p>Unfortunately we do not own these map data since they are provided by Apple Map. Please contact them directly if you have issue https://www.apple.com/feedback/maps_ios.html</p>
<p>I previously purchased the subscription, but the ads still appear on the app</p>	<p>Please see 11.2 Restore subscription</p>
<p>The app is in wrong language.</p>	<p>Some apps support multiple languages. However in some cases it may display wrong languages if your locale setting isn't set properly. Please do the following to fix this issue:</p> <p>Method 1: (Recommended)</p> <ol style="list-style-type: none">1. Go to device's Settings / Scroll down until you see Elevation app.  <p>2. Change languages as required</p>



Method 2: Change device's language

Go to device's Settings / General / International / Language

1. Select English or any other language you understand with as a secondary one.
2. Tap Done

	<p>3. Once the device's language has been changed, change it back to your main language.</p>
There's translation error	Send us a message and we will fix it asap.
I would like to cancel subscription	<p>Please follow this instruction</p> <p>https://support.apple.com/en-us/HT202039</p>
My GPS accuracy is bad	<p>Improving GPS accuracy</p> <p>GPS accuracy varies depending on the number of visible GPS satellites. Locating all visible satellites can take several minutes, with accuracy gradually increasing over time.</p> <p>Use these tips to improve GPS accuracy:</p> <ul style="list-style-type: none"> • Ensure the date, time, and time zone are correctly set on the device in Settings > General > Date & Time. If possible, use Set Automatically. <ul style="list-style-type: none"> ○ Important: Incorrect settings on your computer can sync to your device. Verify the date, time, and time zone on any computer that syncs with your device. • Restart your device. • Verify that you have a cellular or Wi-Fi network connection. This allows the Assisted GPS (A-GPS) on the device to locate visible GPS satellites faster, in addition to providing initial location information using the Wi-Fi or cellular networks.

	<ul style="list-style-type: none">○ Note: Microcells (sometimes called Femtocells) are not supported with Location Services.• Maintain a clear view of the horizon in several directions. Keep in mind that walls, vehicle roofs, tall buildings, mountains, and other obstructions can block line of sight to GPS satellites. When this occurs, your device will automatically use Wi-Fi or cellular networks to determine your position, until the GPS satellites are visible again.
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13. Other apps my Mapnitude

Please check links on the right for full list of apps.

App Store Preview

Mapnitude Company Limited
iPad & iPhone

 BlastSim Reference	 GeoLogger - Trip Tracker Navigation	 DistanceCalculator - Map tool Navigation	 AddressFinder - Zipcode Lookup Navigation	 BarcodeEasy Utilities	 ราคาทอง - ThaiGoldPrice Finance
 ราคาน้ำมัน - ThaiOilPrice Reference	 DistancePinner Utilities	 InspireMe - Word Generator Education	 Coordinates - GPS Formatter Navigation	 SunMap - Sun/Moon Toolkit Navigation	 Area & Distance - Map Measure Navigation
 Distance - Find My Distance Navigation	 #Nowplaying - Tweet Your Music Music	 Elevation - Altimeter Map Navigation			



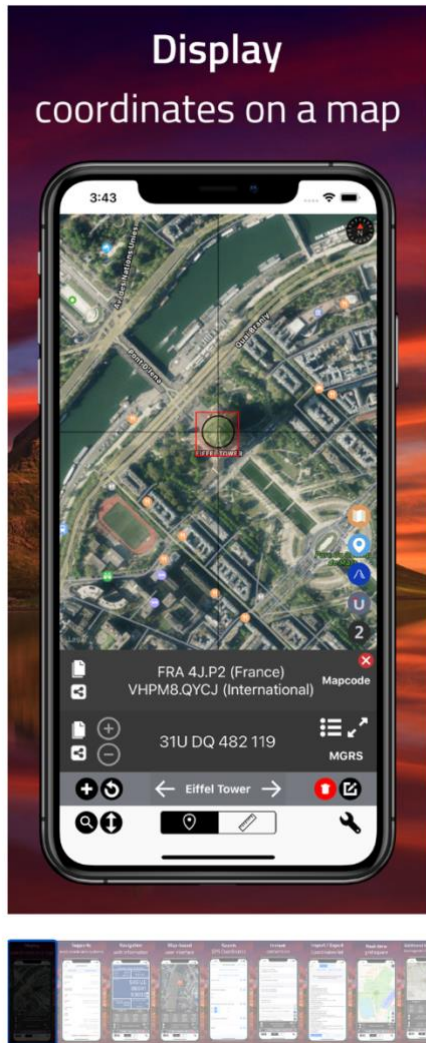
iPhone/iPad

<https://apps.apple.com/us/developer/mapnitude-company-limited/id473558784?see-all=i-phonei-pad-apps>



Android

<https://play.google.com/store/apps/developer?id=Mapnitude+Co.,+Ltd.>



13.1. Coordinates



Simple and easy to use app for determining geolocation coordinates of various formats. Just find your location in the center of the screen (where the grey-line intersects), and result will appear instantly. Search location by name of place, city, state, or country. It also supports several coordinate formats and systems, such as the Universal Transverse Mercator coordinate system (UTM), Military grid reference system (MGRS), and World Geographic Reference System (Georef) and many more.



App Store

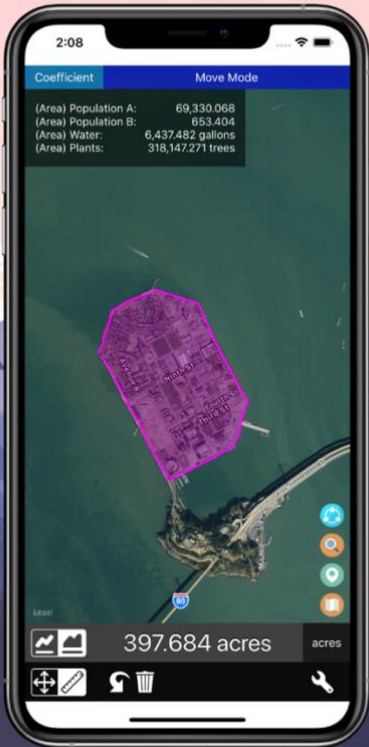
<https://itunes.apple.com/us/app/coordinates-calculate-and-convert-a-position/id494286614?ls=1&mt=8>



Google Play

<https://play.google.com/store/apps/details?id=com.myice92.coordinates>

Draw shapes
to measure area



13.2. Distance



Draw to measure distance along the map, made easy with this app. Now with area measurement and custom coefficients.

By simply dragging on the screen. Draw a route on the map to find its distance. Magnifier will help you make precise drawing and measurement.



App Store

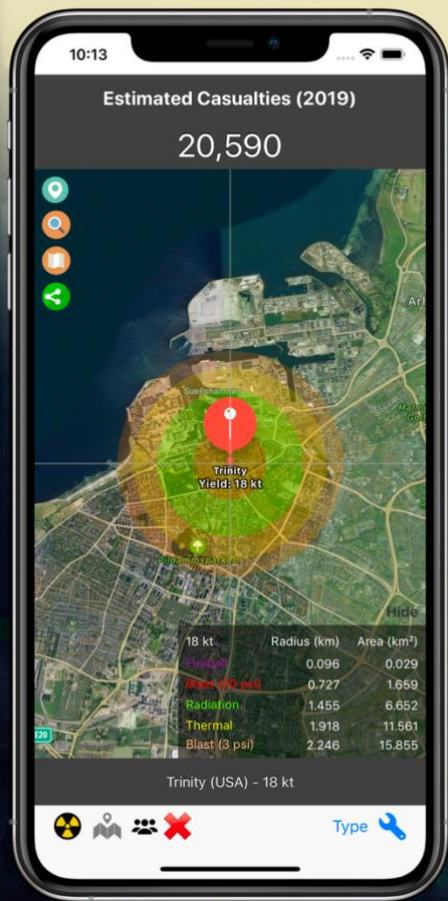
<https://itunes.apple.com/us/app/distance-find-my-distance/id483591610>



Google Play

<https://play.google.com/store/apps/details?id=com.myice92.distance>

Calculate Nuclear Fallout



13.3. BlastSim



Draw to measure distance along the map, made easy with this app. Now with area measurement and custom coefficients.

By simply dragging on the screen. Draw a route on the map to find its distance. Magnifier will help you make precise drawing and measurement.



App Store

<https://apps.apple.com/us/app/blastsim/id1441173322?ls=1>



Google Play

<https://play.google.com/store/apps/details?id=com.myice92.blastsim>

14. Contact Us

To contact us, you can use the in-app email feature or visit our website.

<https://mapnitude.com/support>

We appreciate all feedback and are always looking for ways to improve our app. If you have any questions, suggestions, or issues, please don't hesitate to send us a message. We will do our best to respond to your message as soon as possible.

We value your input and hope to work together to make our app the best it can be. Thank you for using our app!

15. Change Log

2 Jul 2023

1.0.0 – Document creation

