

Marine Charts User Manual (Android)

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Troubleshooting

- If you have questions about how to operate Marine Charts, bug reports, or feature requests, you can email the developers at android@earthnc.com. Bug reports are best if you can tell us how to reproduce the problem, and we almost always fix reproducible bugs very quickly.
- If your phone is in airplane mode, the GPS won't operate, and the app can't locate you.

Main Menu

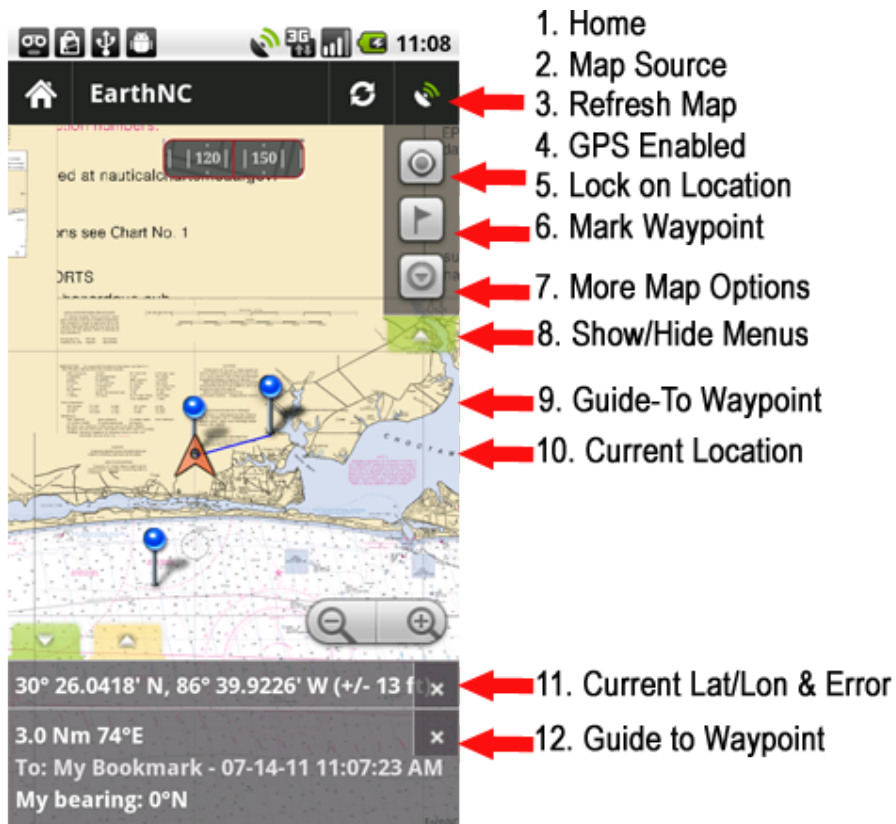
The Main or Home Menu provides quick access to all of Marine Charts' core functions. You can return to the Main menu from any subscreen via the Back button or via the Home icon in the upper left of the screen.

Menu Functions (click for more info on a given function):

1. [Map](#)
2. [Toggle Track Recorder](#)
3. [Saved Places Menu](#)
4. **Search** - Quickly jump to a city or zipcode
5. [Settings](#)
6. **Feedback** - Send the EarthNC team feedback about the app



Map Screen



1. Home Button - Tap to go to the Main App Menu

2. Current Map Source - Shows the currently selected base map name, you can tap this to switch between map types

3. Refresh Map - Refreshes the map tiles of the currently displayed map (requires connection)

4. GPS Status - A Satellite icon is shown when GPS is enabled

5. Lock on my location - When this button is lit up, the map will stay centered on your location. If you drag the map, the location lock will automatically disable.

6. Mark waypoint - Summons the dialog to drop a pin and place it on the map. Drop Pin adds a pin at the current map center. Drop Pin Near Me and Save Location drop a pin on your current location (if you have a good GPS lock). In each mode, you can drag the

pin to adjust its location or adjust the lat/lon values in the Waypoint dialog box at the top of the screen. In the dialog, you can also change the Waypoints name. When finished, hit the Disk icon to save the waypoint to your Saved places list.

7. More Options includes:

- **Enable/Disable Waypoints** - This button toggles visibility of user waypoints on the map
- **Map Types** - Shows a menu that will let you switch between map types (road, topo, marine)
- **Show/Hide POI's** - This button toggles visibility of EarthNC Points of Interest such as buoys, markers, and marina information
- **Offline Mode** - Put the App in Offline mode. In this mode, the app will use your saved maps as tile sources and not attempt to download tiles. Switch back to online mode when in cell or WIFI coverage for automatic map downloading.

8. Hide controls - These tabs let you hide controls on the map. They show up after you touch the map, and they disappear after a couple seconds if you don't interact with the map.

9. Guide to Waypoint - After you save a waypoint, you can get guidance to that waypoint from the details screen for the waypoint (main menu->Saved).

10. Where you are - The arrow on the map shows where you are and which direction you are currently heading. It points straight up until you start moving.

11. Position - After you get a GPS signal, your position will display at the bottom of the map. You can hide these displays similarly to the Lock button.

12. Guide to Waypoint - After you save a waypoint, you can get guidance to that waypoint from the details screen for the waypoint (main menu->Saved).

Menu Button Options on the Map Screen:

1. Search - search for a town name or zip code to quickly jump the map to that location

2. Record Track - Start / Stop track recording

3. My Location - Jump map to your current GPS location

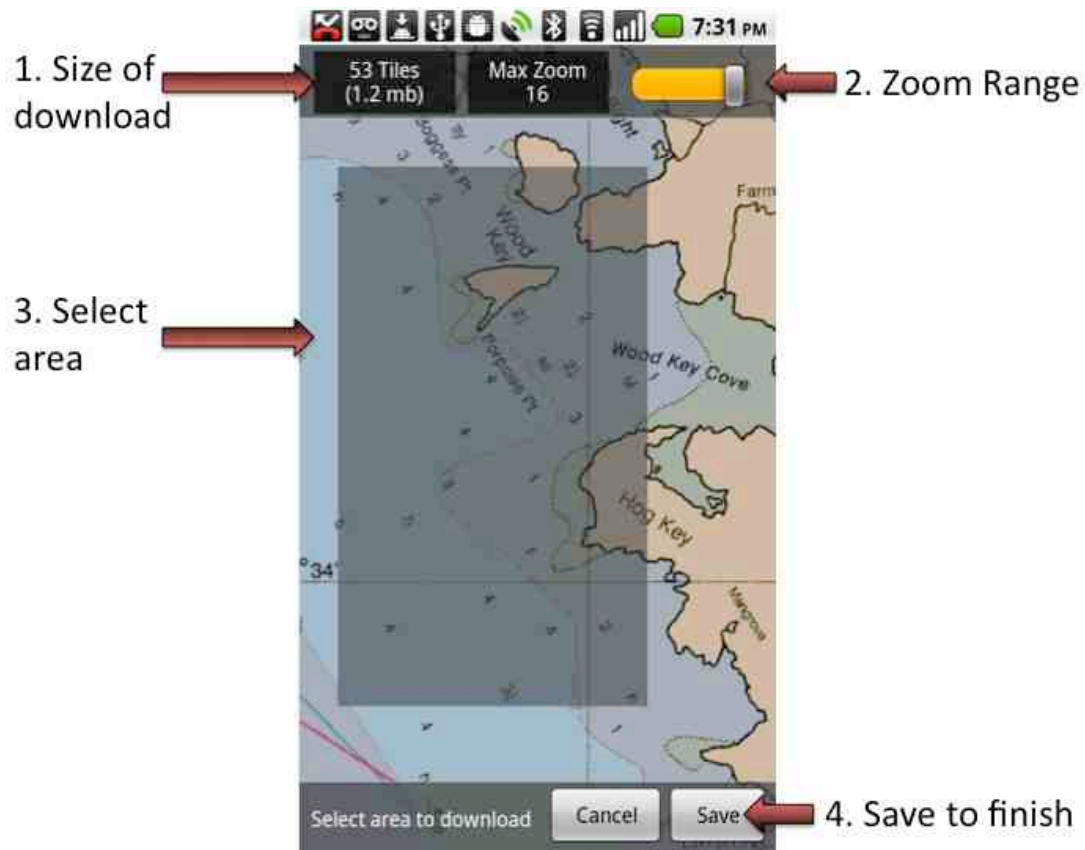
4. Download Map - Activate the Map Download menu, highlight the area and max zoom you'd like to download and save maps for offline use. Saved maps can be up to 30,000 tiles. For best results, download map areas when connected to WIFI or strong 3G signals. Large map areas can be 100's of megabytes so be careful downloading over 3G if you have a limited data plan.

You can also turn your phone sideways for a landscape view.



Map Download Screen

The map download screen (accessible from the main menu) lets you select areas of maps to download for times when you don't have an internet or cell connection.



1. Download size - This label will show you the total number of tiles and megabytes of your currently selected area. For most map types, you can download up to 30,000 tiles at a time.

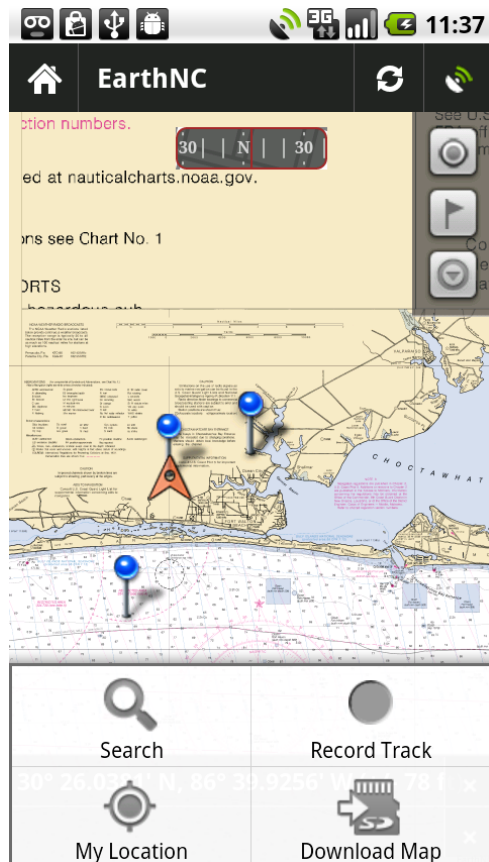
2. Zoom range - Use this slider to select the max zoom level to download - the tool will download all zoom levels up to the value you specify. Keep in mind that each zoom level contains about 2 times as much data as the previous level, so you can cover a lot more area if you omit the highest zoom levels.

3. Select area - Drag your finger to select an area to download.

4. Save to finish - After you have selected the area and zoom levels you want, press Save and the map download will begin. You can check the status of the download or view a saved map by selecting Saved Maps from the main menu.

Menu Functions

Pressing the main Android menu button will reveal the main menu.



- 1. Search** - Enter a place name or address to center the map.
- 2. Record Track** - Start or Stop track recording. When you stop recording, you'll be prompted to enter a track name if desired. Saved tracks are stored in the Home->Saved menu.
- 3. My Location** - Center on your location on the map.
- 4. Download Map** - Find an area on the map that you want to download, then press this button to download it.

Marking Waypoints

Mark a waypoint by pressing the flag button on the map.

You can enter coordinates in whatever format you choose, or drag the pin around the map.

Waypoints can later be accessed by going to Saved in the Main Menu. From there, you can load waypoints on the map, get guidance, add notes, rename, or delete them.



Track Recording

Track recording can be enabled/disabled from:

1. The Home Menu
2. The Menu button on the Map

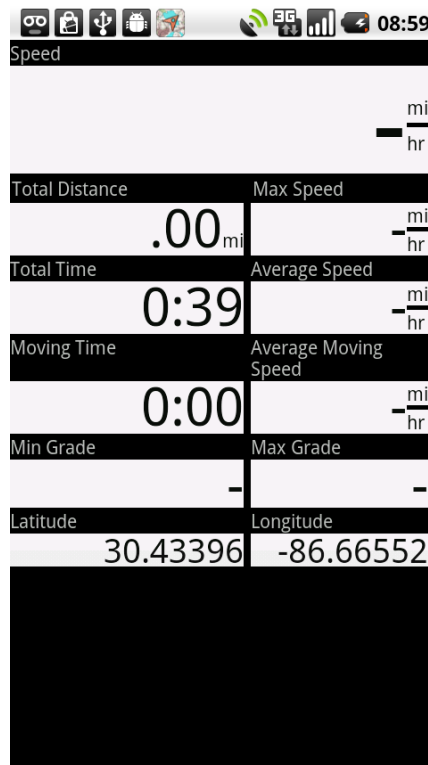
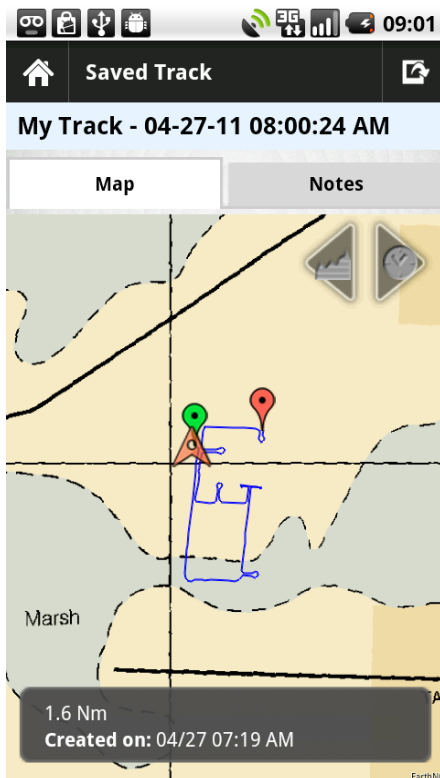
When finished, disable track recording using any of the options above. The app will create a default name for the track with the current date and time. You can edit this before saving or change it later in the Saved Tracks menu.

While recording, or with a saved track loaded into the map, you can access track statistics by tapping on the graph and clock arrows just above the map zoom buttons. If these are not in view, tap just above the map zoom buttons and they will appear.

The clock arrow will show aggregate statistics about the track. If you are recording, these will change in real time.

The graph arrow presents a graph of speed over distance for the current track.

Tracks will continue to record if you background the app by pressing the Home button and using other apps. During recording, the GPS is used so battery life will be shorter than normal.



Saved Places

The Saved places allows you to explore and interact with Saved Maps, Waypoints, and Tracks.

For all Saved types, you can select an individual place and add notes or change the name or delete the item via the menu button.

To load a saved map in offline mode, select the desired map from the Saved->Maps menu and then click Menu -> Load in Main Map.

To activate Guiding to a waypoint, select the waypoint and select Guide to Waypoint from the menu button.

To show a previously recorded track on the map, select the Track and tap menu->Load in Main Map

To export a track, select the Export Track option from the menu button.

Settings Screen

Via the main menu, you can get to the Settings screen (see screen shot below):

General:

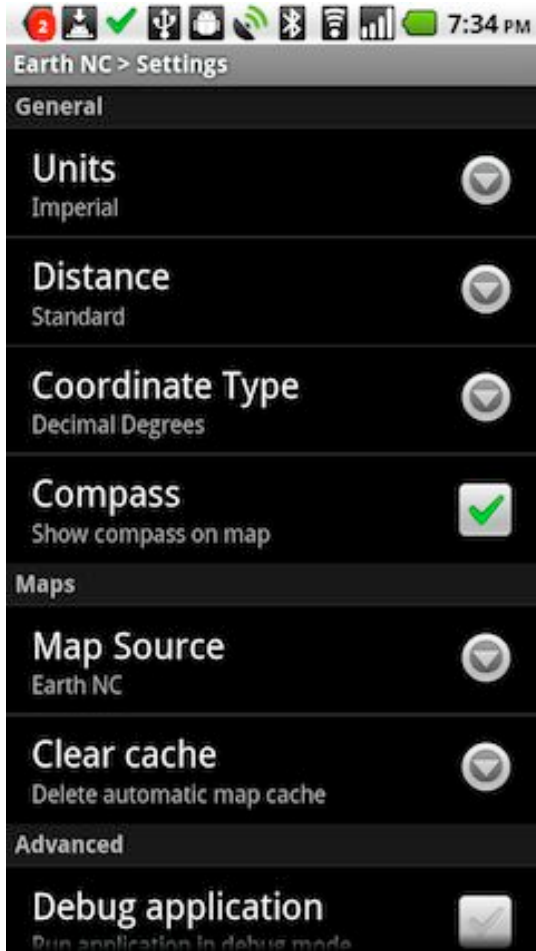
- **Units** - You can set the app to work in metric or imperial units.
- **Distance** - Choose nautical or standard.
- **Coordinate Type** - Defaults to degrees, decimal minutes. Choose from five types.
- **Compass** - Show or hide the compass display on the map.
- **Auto Waypoints** - Show user waypoints as the map moves

Maps:

- **Map source** - By default, Marine Charts displays EarthNC NOAA raster charts. You can also switch to MyTopo and OpenStreetMap.
- **Clear cache** - This selection will clear your automatic cache. Marine Charts automatically saves the last 800 map tiles you have viewed to disk, so they can be viewed while offline. This is separate from the mass download map caching functionality.

Tracking:

- **Min time between points** - How often should the track recorder save a point? This setting interacts with the Min Distance setting below. For most applications, it is best to record based on distance rather than time.
- **Min Distance between points** - Set to 5m by default, this ensures that detailed tracks are recorded without using large amounts of memory
- **Minimum Accuracy** - The app estimates your GPS accuracy via a combination of methods. This setting disables track recording when accuracy is poor (set to 200m by default)
- **Signal Sampling Frequency** - This determines how often the app checks GPS and cell signal strength



Advanced Settings

- **Debug application** - If you are ever having trouble with the app, you could turn this on so the app will generate more complete logs, which you can then send to us using the next setting.
- **Send logs** - Use this to send the developers your software logs. We would really appreciate it if you send us these if you ever have a crash.
- **Reset Application** - You can use this to reset the app to its default state, and erase all of your saved data.

Track Import & Export

To Export a Track:

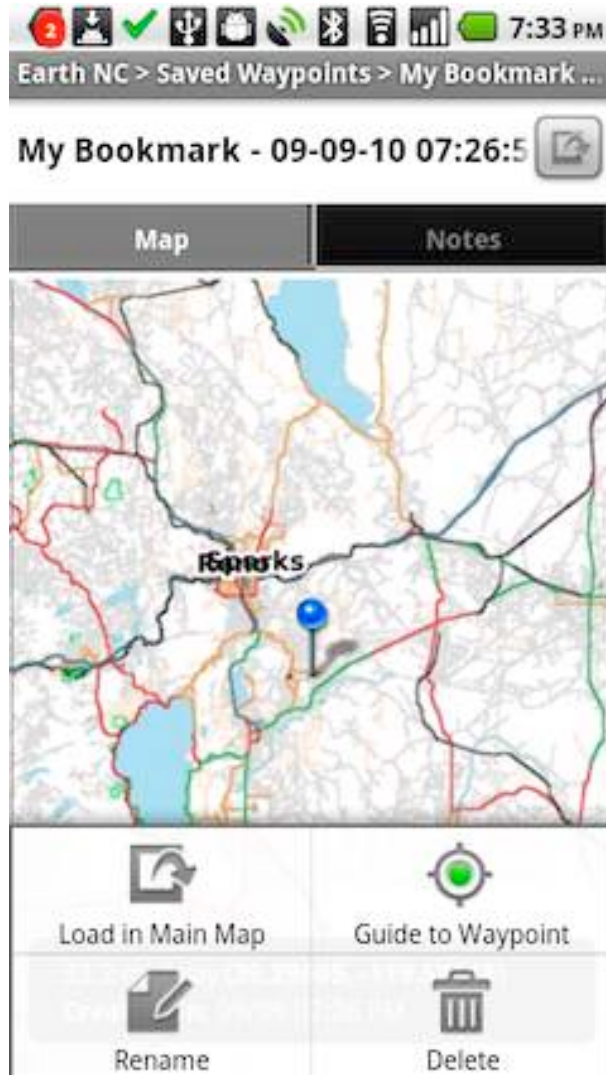
1. Select the Track in the Home -> Saved -> Tracks menu
2. Select Export Track from the Menu button
3. Choose your choice of format from:
 - GPX - used by Garmin and many other GPS units
 - KML - for Google Earth
 - CSV - for MS Excel or other spreadsheets
 - TCX - another GPS exchange format
 -

Exported tracks are saved to your memory card.

Guide to Waypoint

To get bearing, ETA, and distance guidance to a waypoint:

- 1) Go to the Saved table from the Main Menu.
- 2) Select the Waypoints tab on the Saved table, and choose the waypoint to guide to.
- 3) On the Waypoint Detail screen, press the Android Menu and select Guide.



After you select Guide to Waypoint, the Guide dialog will appear at the bottom of the map:

