

# Soviet Military Maps Help

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## Abstract

Soviet Military Maps is an offroad navigation app with Russian military topographic maps at scales from 1:100,000 to 1:500,000. For many areas in countries located in Africa or Asia these maps are still the best topographic data available. You can cache maps for offline navigation and record and manage waypoints and tracks.

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## 1 The Map View

### 1.1 Actions

In the actionbar of the map activity you will find actions that provide access to frequently used functions.



The following table describes the function of each button.

	Description
	Displays the current (GPS enabled) or the last known location (GPS disabled) on the map. If the GPS is disabled, the location might be provided by the network.

	Description
	Starts the track record mode. The track log starts when a GPS signal is available. While waiting for a signal, the button is yellow and turns red after the track recording has started. Press the button again to stop recording.
	Opens a dialog to configure the map. Using this dialog you can set the displayed map or - depending on the mode - (de-)activate existing map overlays.  <div style="border: 1px solid #ccc; background-color: #f9f9f9; padding: 5px; margin: 5px 0;">  Please note that the Google Maps and Bing layers cannot be cached due to their license and therefore can not be used offline. </div>
	To start a GoTo or Route navigation.
	Starts the mode to add a new waypoint. A crosshair is displayed in the middle of the map. Move and zoom the map until you find the right cut. By clicking on the button at the top right to the text box the item is saved. Use the <i>Back</i> button to cancel adding a new waypoint.

## 1.2 In-App Navigation



The following items can be found in the in-app navigation list located in the upper left of the map view.

- *Tripmaster*  
Switch to the tripmaster. The Tripmaster provides a numerical and graphical overview of various movement data. Tap on the App icon to open the tripmaster fast.
- *Waypoints*  
Opens the activity to manage waypoints. If no waypoints are present, the list is empty.
- *Tracks*  
Opens the activity to manage tracks. If no tracks are present, the list is empty..
- *Routes*  
Opens the route list. Use the *New Route* action located in the menu to create a new route.
- *Preferences*  
To configure the map (see section Options).
- *Help*  
Shows this help document.
- *Tutorial*  
Shows a quick start tutorial.

## 1.3 Menu

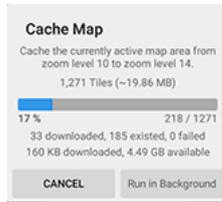
The following items can be found in the options menu.

- *Search*  
Search map features by name. A parallel search in the local database and the web is performed. The local database contains major cities worldwide. The search in the local database is also available for offline usage.
- *New Route*

To create a new route on the map.

- *Bulk Download*

To cache the currently active map for offline use. The following dialog appears:



Use the slider to set up to which zoom level the map is to be saved. The starting zoom level is the currently set map zoom level.



Please note that the bulk download can cause high volumes of traffic. You should switch to airplane mode and use a WIFI connection.

## 2 Tripmaster

The Tripmaster provides a quick overview on values such as speed, distance, etc. The tripmaster can be accessed via the corresponding action in the navigation dropdown in the map view or by a single tap on the app icon. To leave the Tripmaster, you can tap on the app icon in the upper left corner or use the back button.

The following section lists all currently available data fields.

### 2.1 Data fields

Datafield	Description
<i>Speed</i>	Shows the current speed.
<i>Speed Average</i>	Shows the average speed over the entire distance and time.
<i>Maximum</i>	Shows the maximum speed.
<i>Distance</i>	The total distance traveled.
<i>Lat/Lon</i>	Current latitude/longitude according to the last GPS position.
<i>Accuracy</i>	Accuracy of the last acquired GPS position.
<i>Altitude</i>	Altitude according to the GPS-Receiver. Please note that these values might be very inaccurate.
<i>Course</i>	The current driving course.
<i>Compass (flat)</i>	A cockpit-like flat compass. If a GOTO target is set, it displays the direction to the target as well*.
<i>Compass</i>	A classical compass. If a GOTO target is set (or a route is active), it displays the direction to the target as well*.
<i>Speedometer</i>	Graphical representation of the current speed.
<i>Sunrise/Sunset</i>	Time of sunrise/sunset at the current location.

**Common**

Datafield	Description
<i>Aerial Distance</i>	Aerial distance to the set GOTO target / the next route point.
<i>Pointer</i>	An arrow showing the direction to the set GOTO target / the next route point.
<i>Route End</i>	Distance to the end of the route.
<i>Time OT</i>	The time since the start of a track record.
<i>Waypoint</i>	Name of the current GOTO target (if any).
<i>Direction</i>	Shows the direction and distance to the GOTO destination / next route point. The direction is calculated based on the driven course in movement or based on the values returned by the compass device on halt.

#### Goto / Routing

Datafield	Description
<i>Lat/Lon</i>	Current latitude/longitude according to the last GPS position.
<i>UTM</i>	UTM (Universal Transverse Mercator) coordinates according to the last GPS position.
<i>MGRS</i>	Current MGRS (military grid reference system) coordinates according to the last GPS position.

#### Coordinates



The direction to the destination is determined by values supplied by the built-in compass. If the accuracy of the built-in compass is low, there are corresponding differences in the indication of the direction. If the accuracy of the signal is not high, a message will appear.



The values are updated only when either a track record or a GOTO has been started. To start recording a track you can use the "REC" button.

## 2.2 Reset values



Some values like average and maximum speed or distance can be reset. Tap on the reset button and choose *Reset values* to reset these values. A dialog appears to select the values to reset.

## 2.3 Replace Datafields

To replace a data field tap on it as long as the context menu of the data field opens and select "Replace ...". If you want to restore the default allocation, you can use the reset button and reset the layout.

### 3 Waypoints

Using this activity you can manage your waypoints. Some actions can be performed on multiple waypoints. For example, you can view multiple waypoints on the map by selecting them in the list and clicking the *Show On Map* button.

The menu provides actions to sort, import, export or select all waypoints. At the time of writing the following actions are available using the context menu of a waypoint item:

- Show on map  
Displays the selected waypoints on the map.
- Goto  
Starts the Goto mode for the given waypoint.
- Delete  
To delete one or more waypoints.
- Edit  
To edit the name and description of a waypoint.
- Export  
To Export given waypoint as a GPX, KML or KMZ file to the local file system.
- Share  
To send the given waypoint as a GPX, KML or KMZ file attached to a mail or to share the waypoint in a textual form, e.g. in a mail or to post a waypoint in a social network.
- Use with other apps  
To display the selected waypoint in another app installed on the device.
- Start Google Navigation  
Starts the Google Navigation to the given waypoint.

### 4 Tracks

To manage your tracks. If a track is selected the the context actions will get visible. Using the menu you can reach the command to import a track. The following commands can be found in the context menu of a track:

- Show On Map  
Displays the selected track on the map.
- Show Details  
Displays detailed information about a track. Some data, e.g. the speed will be shown in a diagram.



Please note that the altitude as provided by the GPS is often very inaccurate. We plan to provide a feature to offer precise altitude data for track points in a future version.

- Delete  
To delete one or more tracks.
- Edit  
To edit the name and description of a track.
- Export  
To export the selected track as a GPX, KML or KMZ file. The file will be stored on the sd-card in the directory *[cache\_root]/tracks*.
- Share  
Share the given track as a GPX, KML or KMZ file.
- Play in Google Earth

Plays the given track in Google Earth (if installed).

- Track Back

Create a track back route from a given track. If you just recorded a track the generated route will guide you back to your start point.

## 5 Routes

A Route consists of at least two points that describe the path you are going to travel. After a route has been created or imported it can be started, so that the app will guide you from point to point.

### 5.1 Creating a new Route

To create a new route use the *New Route* action located in the menu of the map view. Insert a new point by tapping on the map. To move an existing route point long press on it. A view displaying the map content under your finger will be presented in the upper left corner of the display. To import a waypoint use the menu button and choose *Append Waypoint*. To undo/redo an operation use the actions presented in the action bar. Use the *Save* action to save the new route.



You can create a track back route from a recorded track that will guide you back to the start point of your track. To do so use the *Track Back* action located in the menu of the track list.

### 5.2 Importing a Route

To import a route you can use the *Import* action located in the menu of the route list. *GPX* and *KML/KMZ* files containing path data can be imported. Note that large routes might get simplified during the import process. In this case the simplified route will be displayed on top of the original path when the imported route is shown on the map.

### 5.3 Starting Route navigation

To start a route:

- Open the route list, select a route and choose *Start route*
- Click on the Navigation Action button located in the action bar of the map view and choose *Start Route*. A dialog will appear that allows you to select the route to start.

## 6 Preferences

### 6.1 Common

Preferences used in all parts of the app.

- *Keep display active*  
Enable this option to keep the background light active.
- *Beep on GPS fix*  
Plays an acoustic signal at the first GPS fix and on reach of a GOTO target.
- *Follow Position*

In follow position mode network locations can be used as the only location providers. This might be useful in areas with a high wifi density or in larger halls. You can also specify a time and distance interval for the location updates.

### 6.1.1 Workflow

- *After Track save...*  
The action to take after a track has been saved.

## 6.2 Map

- *Map Base Scale*  
Depending on your device and the map you use you might want to increase the scaling. Note that the map might become blurry on large values. Also note, that you can set this value after long clicking on one of the zoom buttons in the map view.
- *Tap Zoom*  
Double tap to zoom into the map. The map will get zoomed to the tapped point.
- *Overzoom*  
The overzoom feature allows you to easily scale the map using the zoom buttons. Note that no new tiles will be requested and the view will become blurry as the maximum zoom level of the map is reached.
- *Show Zoom Animation*  
Activate to show zoom animations.
- *Draw Overlays on Zoom*  
Whether or not to display map overlays during a zoom operation. Might be useful to turn this option off on slower devices.
- *Show Scale Bar*  
If turned on a scale bar will be displayed at the lower right of the map view.
- *Show data fields*  
In *Track Record*, *GoTo*, *Route* and *Follow Position* mode data fields can be displayed on top of the map. The assignment of these fields can be configured. There are 4 different data fields assignment configurations, one for each mode.
- *Marker*  
To get information on a specific location on the map do a long tap on the desired position. You can configure if an address and/or the height of the given position should be fetched.

## 6.3 Colors and Styles

- *Track Record*  
The given color and size is used to display the track path during track record.
- *Track*  
The given size is used to display recorded or imported tracks. If you display more than one track at once the first track will have the configured color.
- *My Location*  
Specify the color and size of the my location overlay.

## 6.4 Units and Formats

- *Units*  
Choose between metric or imperial units.
- *Default Coordinate Format*  
The configured format will be used whenever a coordinate is displayed or shared.

## 6.5 Cache Root Path

This is the path to the cache root. All files cached by the app will be stored here.

## 7 FAQ

- What is the location of the cache directory?  
The map tiles are cached in *[cache\_root]/tilecache* . You can adjust the path to the cache directory (e.g. to use a SD-Card) under *Menu -> Preferences -> Cache Root Path*.
- What data is deleted when the corresponding button under *manage applications* will be used?  
All data! You will loose all recorded waypoints, tracks and routes . But you can safely delete the cache.
- How can I preload maps, so that I can use them offline?  
Select the desired map layer and zoom to your area of interest. Press the menu button of your device and select *Cache Map*. Now drag the slider to the max zoom level you want to cache and start by pressing the *Download* button. All loaded tiles will be available for offline use.
- Is there a way to optimize th sd card for a lot of cached map tiles?  
Format the sd card with a small block size like 1024 bytes. On a windows system: format o: / FS:FAT32 /A:1024

## 8 3rd Party APIs

This application uses the OSM Nominatim Webservice to search OSM data by name: Nominatim Usage Policy.

This application uses the Google Geocoding API to search for named features: Google Maps/Google Earth APIs Terms of Service.

IT IS YOUR OBLIGATION TO READ AND ACCEPT ALL SUCH TERMS AND CONDITIONS PRIOR TO USE OF THIS CONTENT.