

1 INTRODUCTION

TwoNav dedicates all its experience and effort to enable you get the best out of your outdoor activities such as hiking, cycling, trail running, geocaching...

TwoNav offers directional assistance, both on-road and off-road activities, this assistance is invaluable in order to increase the safety of your itineraries. Despite this, under certain circumstances, you may be distracted by misuse of the application, in this case it may become a hazard either for you or the environment. Please, use TwoNav application with responsibility.



Even TwoNav offers you the possibility to use this application in any type of vehicle it is very important to take into consideration a series of recommendations and regulations to properly use the application:

- **Fit TwoNav application correctly:** TwoNav should be fitted in a place where it will not obstruct your visibility. Moreover, it must be secured to ensure it cannot fall off easily and hinder driving. Plan all details regarding your itinerary before starting the navigation. Any change must be done with the vehicle stopped in a safe place (not on the road or kerbs).
- **Guided by sound indications:** TwoNav application will warn you with sound indications of upcoming manoeuvres and when to carry them out. A glance at the visual information displayed by TwoNav may be useful in order to know which path you should take, but you must resort to this visual information only if you can do it safely (vehicle stopped).
- **Front-seat passenger can easily help you:** The driver is always facing the road, so if you have a front-seat passenger, TwoNav strongly recommends this person to be in charge of handling the TwoNav application.
- **Maps always contain errors:** Remember that it is impossible to have 100% updated information for all your maps. So, new streets, changes in street directions or road restrictions may invalidate partially the calculation of your itinerary. It is very important to be aware of these changes and to get adapted to the new situation.
- **Traffic regulations have always preference:** In order to fully comply the traffic regulations of each country.

All new developments are based on suggestions and feedback from users like you. If you would like to share your ideas and proposals with TwoNav, feel free to do it at <http://TwoNav.uservoice.com>

If you have any questions or problems regarding the use of our products, please contact the on-line technical support department of TwoNav at <http://Support.TwoNav.com>


2 START UP & MAINTENANCE

2.1 INSTALLATION

In order to make TwoNav more accessible to you, TwoNav has developed two modes for the same application:

- **TwoNav (free mode):** Certain usage limitations on functions.
- **TwoNav (premium mode):** All functions with no limitations.

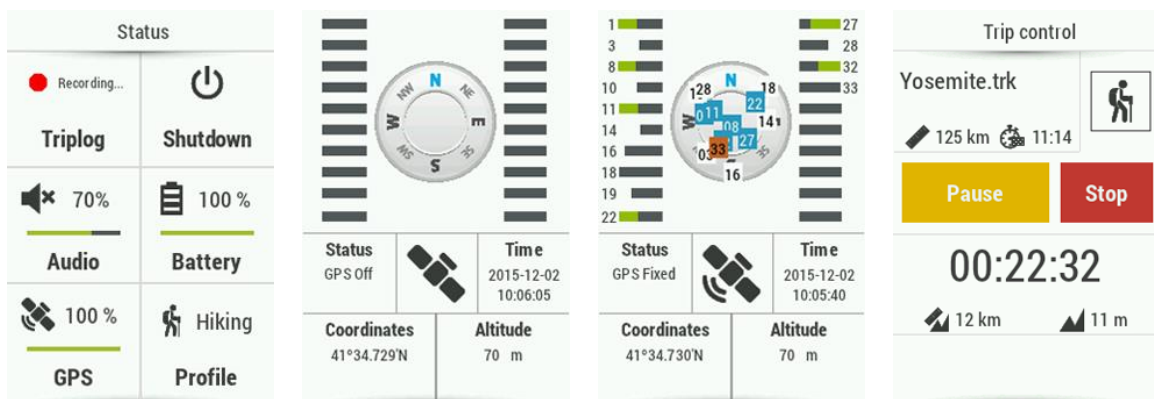
If you are using TwoNav in free mode, you have the opportunity to go Premium to fully enjoy TwoNav. All you have to do is buy a full TwoNav license from:

-  <http://www.TwoNav.com>
Search 'TwoNav Multi-Platform (license)' product

Remember that, once installed, you will only need to activate the software the first time (if you bought the license via Google Play/App Store TwoNav will be automatically activated by default, no activation code will be provided). TwoNav will remain activated the next time you run the software, also after reinstalling or upgrading it on the same device.

Activation can be done connecting the device directly to internet, or via manual process. If you have any questions or problems regarding the registration process, please contact the on-line technical support department of TwoNav at <http://Support.TwoNav.com>

2.2 APPLICATION STATUS



From 'Main menu > Status' you can check the status of general functions of TwoNav application.

- **'Triplog' (recording of itinerary):** 'Triplog' is the command allowing you to manage the recording of your itinerary, your itinerary will be recorded when 'Triplog' is started.
- **Audio:** Set the general audio and the volume of each audible element individually.
- **Battery:** Check the current battery level for TwoNav application.
- **GPS:** Check the number of satellites available as well as their distribution orbiting over the vault and their coverage. By default, when TwoNav is launched, it will try to connect to available satellites so that you can start working with GPS function. If GPS is disconnected, TwoNav will not receive any position signal and many application functions will stop working. Possible states for GPS function:



Disconnected



Simulating



Connecting



Connected (without position)



Error (not found)



Connected (with position)



Connect/Disconnect GPS function:




Press the central button to switch on/off the GPS of TwoNav.

NOTE: TwoNav will attempt to fix your current position, but if you are somewhere without GPS coverage (for example: inside a building), GPS status will turn into 'Connected (without position)'.

- **Amigos:** Location-aware feature developed by TwoNav allowing you to view the current location of your contacts on the map in real time (and viceversa).
- **Profile:** TwoNav settings will be automatically configured to fit the activity that you are about to perform.

2.3 UPDATE TWONAV

TwoNav software is continually being improved in order to add new functionalities and polish errors. Your device has several software levels:

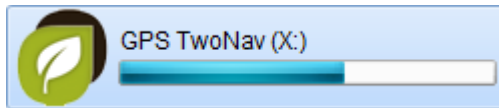
- **Operating system:** Executed under TwoNav and controlling the more basic operations of the device.
 -  **Windows:** How to update operating system?
(check your computer for further information)
 -  **Mac:** How to update operating system?
(check your computer for further information)
- **Software:** Executed over the operating system and interacting with you.
 -  **TwoNav application:**
[How to update TwoNav software?](#)

Visit regularly <http://www.TwoNav.com> in order to be informed about the latest version for your device and to get to know the steps to follow to update it.

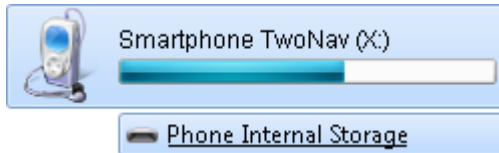
2.4 PC CONNECTION

When a TwoNav device is connected to computer by means of the USB wire, the device becomes a storage unit. New storage units will then be shown on your computer:

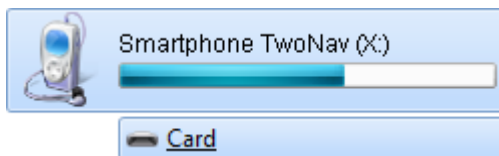
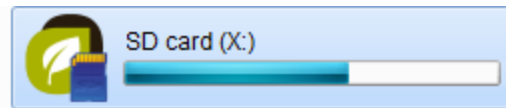
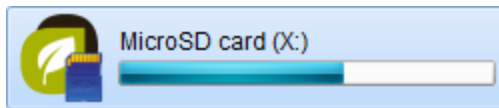
- **GPS disk:** Inner memory of the device.



- **Smartphone disk:** Inner memory of the device.

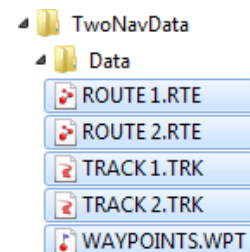
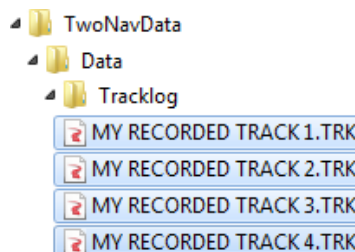
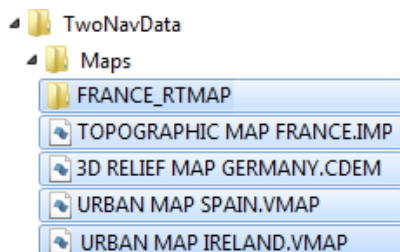


- **Removable disk:** Depending on the device, a microSD or SD card may be inserted.



Once detected, you will be able to transfer data from your computer to the device and vice versa. Please note that the folders in the memory card of the device to transfer data are:

- **Default folder for maps:** *TwoNavData/Maps*
- **Default folder for your recorded tracks:** *TwoNavData/Data/Tracklog*
- **Default folder for tracks/waypoints/routes:** *TwoNavData/Data*



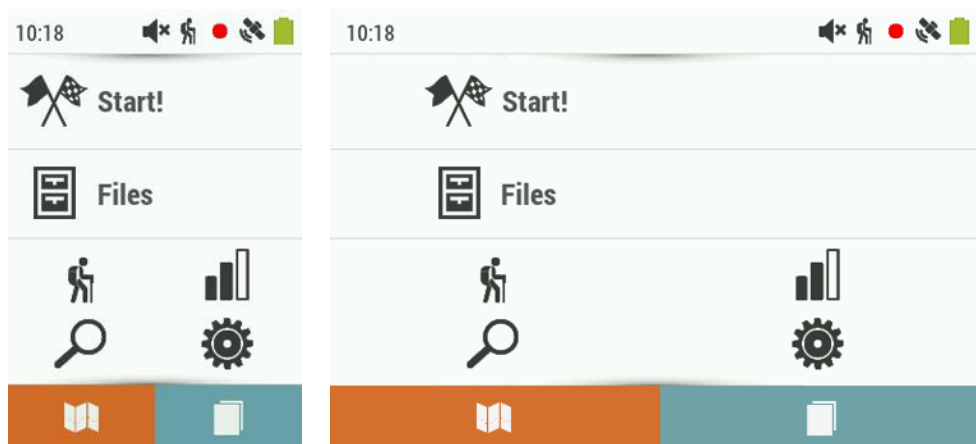


IMPORTANT: You can easily manage, transfer and analyse your own elements using Land software (Windows/Mac), more information at <http://www.TwoNav.com>

3 OPERATION

3.1 MAIN MENU

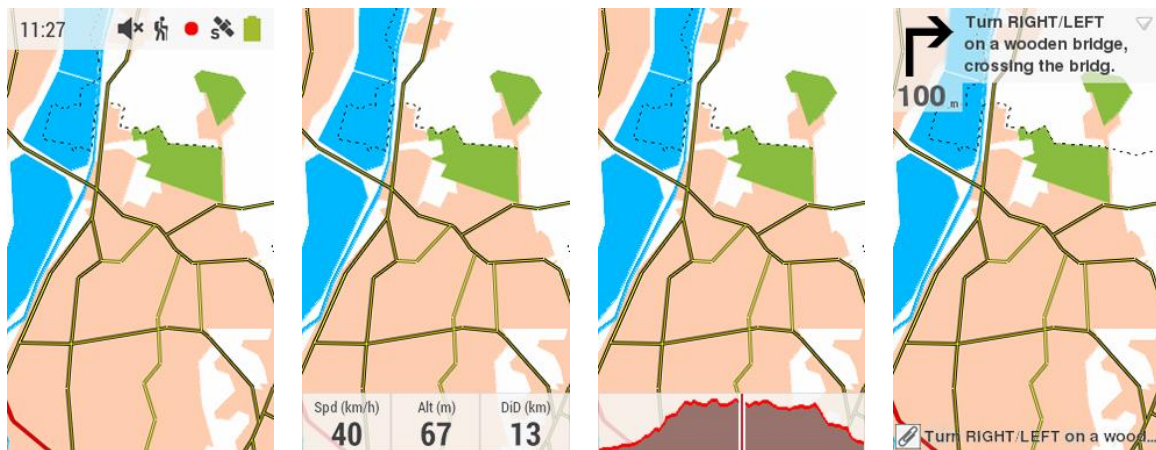
From the main menu, you can manage most of the system's functions by accessing the different sections. Press on menu elements in order to activate them or access their sub-menus.



3.2 MAP WINDOW

3.2.1 DATA MODE

By default, map window shows 'Data' mode.



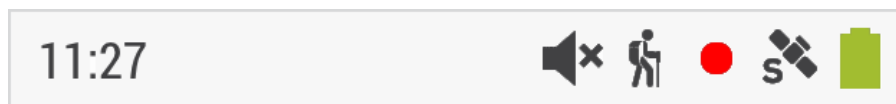
**STATUS
BAR**

**DATA
BAR**

**GRAPH
BAR**

**ADDITIONAL
FEATURES**

3.2.1.1 STATUS BAR



Status bar is placed at the top of TwoNav application and it shows the current state of some of the most elementary functions featured in TwoNav:

- **'Triplog':** 'Triplog' is the command allowing you to manage the recording of your itinerary. Possible states: recording, paused or stopped.
- **Profile:** TwoNav settings will be automatically configured to fit the activity that you are about to perform.
- **Hour:** Current time.
- **GPS coverage:** Number of satellites available.
- **Battery:** Current battery level for TwoNav application.

Other secondary functions may also be displayed at Status bar when using them. If you prefer, you can disable status bar from *'Main menu > Settings > Full settings > Map page > Information panels'*.

NOTE: During your trips, you can access several pages by clicking the status bar.

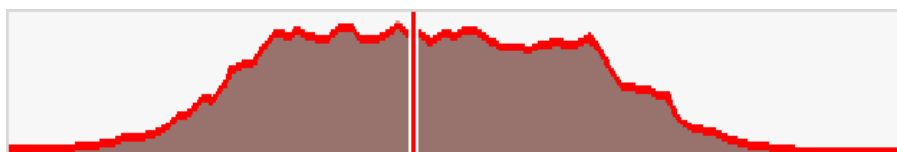
3.2.1.2 DATA BAR

Data bar is placed at the bottom of TwoNav application, during your trips it shows relevant information of your performance. Data bar has several modes, set the default mode from *'Main menu > Settings > Full settings > Map page > Data bar > Data bar display'*:

- **Data fields bar:** When navigating a route/track, it shows a few relevant data fields. Fields contained in the data bar can be selected from *'Main menu > Settings > Full settings > Map page > Data bar > Edit data fields'*. You can also change a concrete data field by opening the contextual menu on it.

Spd (km/h)	Alt (m)	DiD (km)
40	67	13

- **Graph bar:** When navigating a route/track, it shows the altitude profile.



If you prefer, you can disable data bar from *'Main menu > Settings > Full settings > Map page > Data bar > Show data bar'*.

NOTE: During your trips, you can access 'Main menu' by clicking the data bar.

3.2.1.3 ADDITIONAL FEATURES

Additional functions on map window can be configured from *'Main menu > Settings > Full settings > Map page > Information panels'*.

- **Info Current:** Information related to present position.



Turn RIGHT at the beach, follow the...

- **Next Event:** Information related to the next position (direction and distance). GOTO arrow shows direction of the following section of the track. This parameter is the distance to calculate tangent to give direction. Take the direction of this arrow as a reference to keep going your way.



- **Info Next:** Information related to next events (not shown if no destination is selected). *Info Next* can be displayed in several states:

1. One line

Turn RIGHT at the beach, follow the... ▼

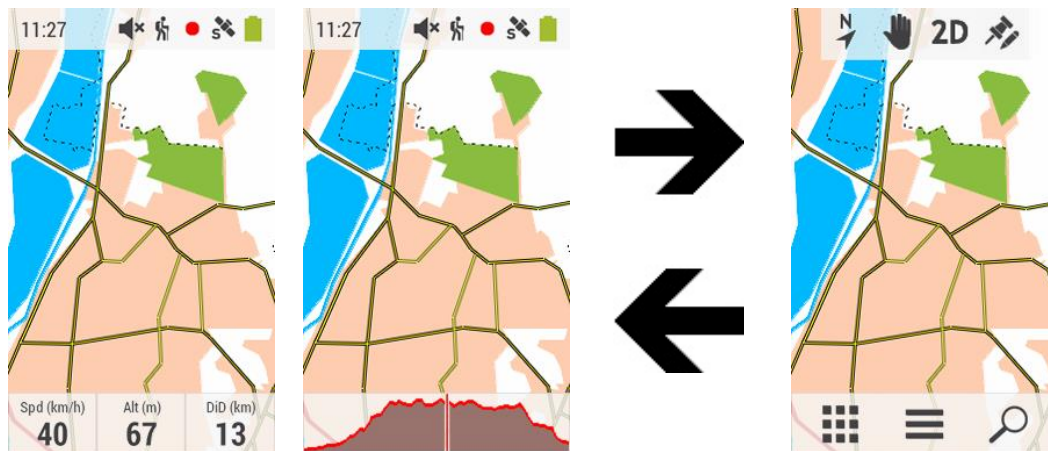
3. Text viewer (fully displayed)

2. Extended

Turn RIGHT at the beach, follow the sand track that runs parallel to the hotel until the end of the beach. ▲

3.2.2 TOOL MODE

In order to access to the *Tool* mode, do a short tap on any place of the map.



'DATA' MODE

'TOOL' MODE

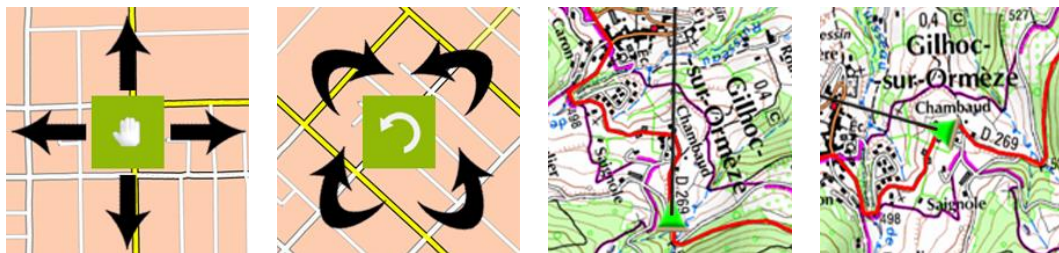
Press any part of the map again to hide the *Tool* mode and return to *Data* mode.

3.2.2.1 TOOL BAR

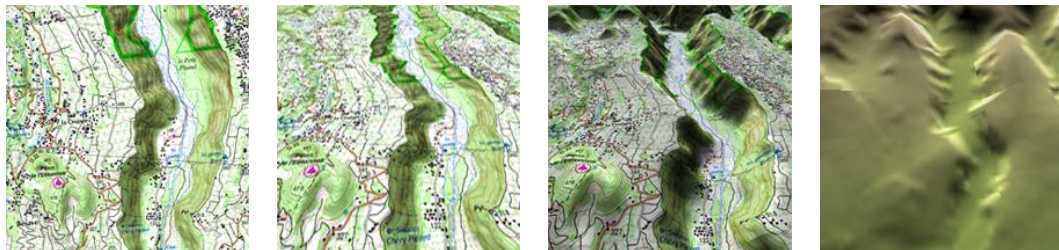
Toolbar allows a quick access to some functions:



- **Orient map (North up/Track up):** The map may be fixed on the north or rotate according to your movements.
- **Move map (Panning/Rotate):** Move the map without changing its orientation or change the orientation of the map in a clock-wise, anti clock-wise sense or up/down.



- **2D/3D/3D+:** Switch between different map perspectives: '2D > 3D > 3D+'.



2D FLAT

3D FLAT

3D+ RELIEF

RELIEF MAP

- **Mark and edit waypoint:** Create a waypoint at current position and access to its properties to modify them.

Extra buttons are automatically added to tool bar in specific situations:



- **Simulating mode:** 'Pause', 'Stop' and several functions to manage the speed of the simulation.
- **Navigating mode:** 'Next waypoint' and 'Previous waypoint' to jump to next waypoint or go back to the previous one.
- **Competing against the TrackAttack:** 'Synchronize TrackAttack' to automatically place the 'TrackAttack' at your current position (only if 'TrackAttack' function is enabled).

NOTE: You can also include and remove the functions of the tool bar according to your needs from 'Main menu > Settings > Full settings > Map page > Tool bar'.

3.2.2.2 BOTTOM BAR

Bottom bar allows a quick access to some functions:



3.2.3 PIN MODE

Do a long press on any part of the map to access the 'Pin' mode.



'DATA' MODE

'PIN' MODE

The selected position will be marked on the map, a window displaying information related to that point will appear at the upper side of the application (name of the location/coordinates, bearing and distance to that point, altitude of the selected point...).

Press elsewhere on the map and the information featured in the upper window will be adapted to the new position.

Click the upper window to display all the actions that can be conducted on the marked point.

Press 'Back' to close 'Pin' mode.

3.3 DATA LISTS

Maps list	Waypoints list	Tracks list	Routes list
FRANCE TOPO	Waypoints.wpt	TRACK 1.trk	ROUTE 1.rte
ITALY ROADS	Waypoint 1	Start	Start
GERMANY 3D RELIEF	Waypoint 2	Arrival	Waypoint 2
SPAIN ROADS	Waypoint 3	TRACK 2.trk	Waypoint 3
IRELAND 3D RELIEF	Waypoint 4	TRACK 3.trk	Arrival
MALTA TOPO	Waypoint 5	TRACK 4.trk	ROUTE 2.rte

MAPS

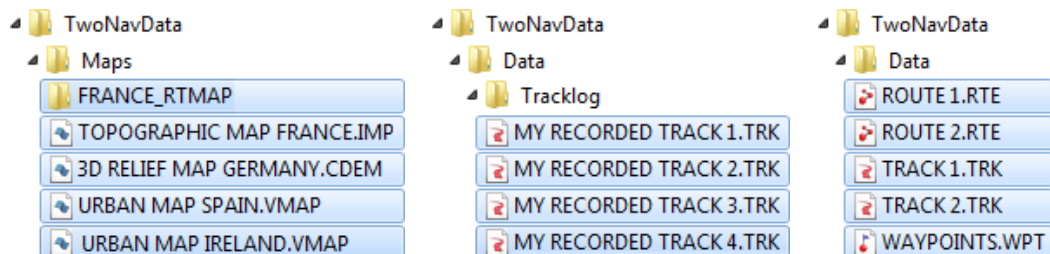
WAYPOINTS

TRACKS

ROUTES

At 'Main menu > Files', you will be able to manage the available files on your device. Files to be taken into consideration on these lists are the files saved at:

- **Default folder for maps:** 'TwoNavData/Maps'
- **Default folder for your recorded tracks:** 'TwoNavData/Data/Tracklog'
- **Default folder for tracks/waypoints/routes:** 'TwoNavData/Data'



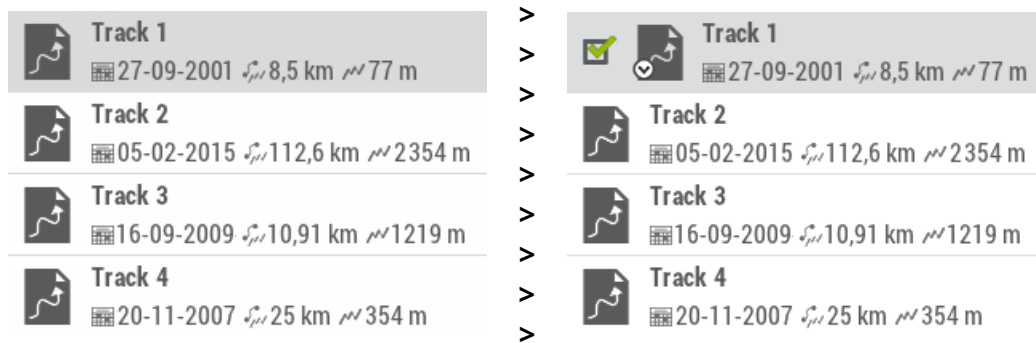
Although the management of elements is centralized at 'Main menu > Files', is also possible to carry out many other actions directly from the map window or using the contextual menu.



IMPORTANT: You can easily manage, transfer and analyse your own elements using Land software (Windows/Mac), more information at <http://www.TwoNav.com>

3.3.1 MANAGEMENT OF ELEMENTS

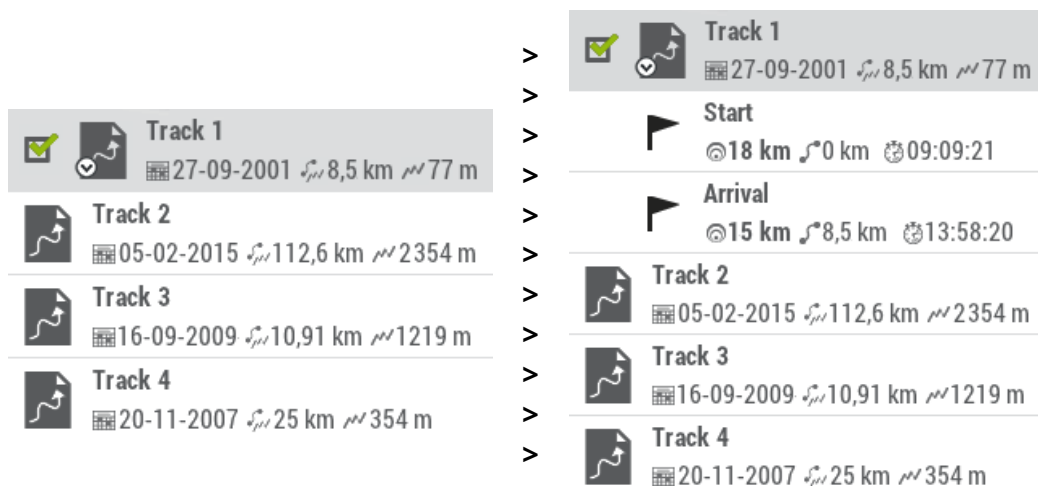
1. **General view:** Opened elements are placed at the top of the list with a ticked square.
2. **Open element:** Press the name of the element.



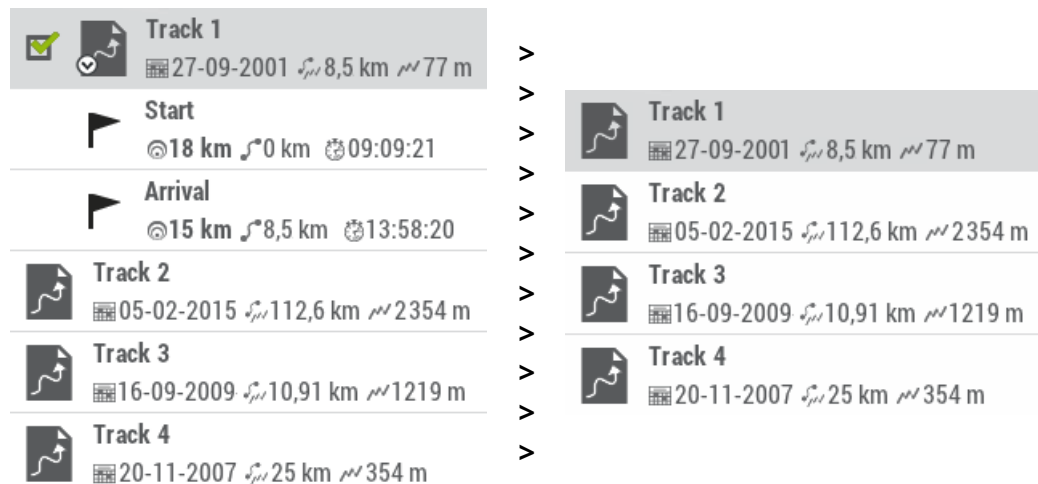
3. **Check the properties:** Press the name of the opened element. At properties window, you can check all the information related to the element and carry out several actions (available information will depend on selected element).



4. **Display subelements:** Some elements might have subelements (for example: waypoints or e-Roadbook points), in order to display them press the icon of the opened element. In order to hide them, press again the icon of the element.






















5. **Close element:** Press the ticked square of the element.










3.3.2 ACTIONS ON ELEMENTS

In data lists you are able to carry out several actions on elements, available functions will depend on selected element:

-  **'Accept'**
-  **'Cancel'**
-  **'Main menu'**
-  **'Map window'**, main application window















-  **'Data pages'** contain data fields providing updated information of your current performance during your navigations
-  **'Back'** to the previous window
-  **'Page tools'** allows you to open specific configuration tools of the section where you are working in at the moment.
-  **'Zoom +'**
-  **'Zoom -'**
-  **'Re-center to current position'**
-  **'Add new item'** in a list of items
-  **'Delete item'** in a list of items
-  **'Rename item'** from a list of items
-  **'Properties'** of the selected element
-  **'Graph representation'** of the selected element
-  **'Navigate element'** shows a trip preview allowing to configure your personal alarms before starting the navigation
-  **'Search'** shows that element on map (preview window) allowing you to zoom to it directly
-  **'Create new waypoint'**
-  **'Create new route'**
- **Abc** **'Name filter'**, elements which contain the entered combination of characters will be automatically shown

-  **'On-line files'** offers the possibility to download all kinds of free data located on external internet servers
-  **'Facebook'**, publish this element on Facebook
-  **'Chat'** with your contacts
-  **'View full image'**
- **100%** **'Enlarge image at 100%'**, selected image will be displayed at real size
-  **'Mark'**
-  **'Refresh'**, refreshes a list of items
-  **'Default configuration'** returns to the default configuration

NOTE: Remember that you can also open the contextual menu to use more functions on specific elements.

3.3.3 2ND LINE DATA

TwoNav allows you the possibility to display more information for listed waypoints/tracks. Extra information will be presented in a 2nd line right after the name of the item with information such as date, distance, height, relative bearing arrow... Select the information that you want to display from *'Page tools > 2nd line data'*.

<input checked="" type="checkbox"/>		Track	 27-09-2001	 8,5 km	 779 m	 17 Kcal	 17:10
		Start	 18 km	 0 km	 09:09:21		
		Arrival	 15 km	 8,5 km	 13:58:20		

IMPORTANT: Get to know more about data fields in Appendix.

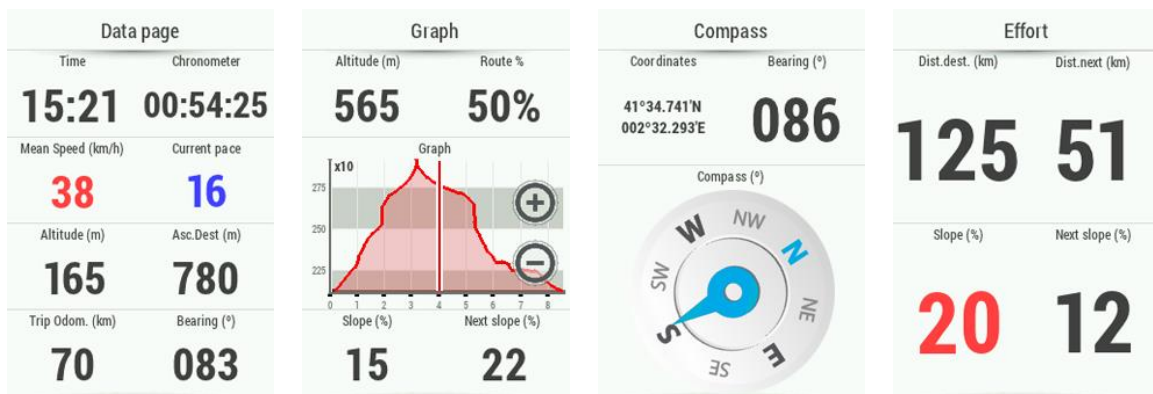
NOTE: Information contained in the 2nd line is only available for elements which have been saved using TwoNav 2.5 or Land/Air 7.3 software (or higher).

3.4 DATA PAGES

During your navigation, TwoNav records many interesting data, this information (data fields) is usually very interesting to analyse and compare (speed, height, distances...). Open data pages from:

- **'Main menu > Data pages'**

Data pages offer you an additional space to the data bar where a larger number of data fields are displayed. When opening a contextual menu on a data field, you will find the available functions associated to that field.



**DATA
PAGE**

**GRAPH
PAGE**

**COMPASS
PAGE**

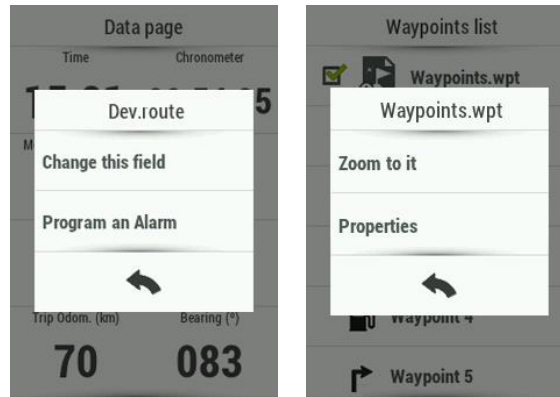
**DESTINATION
PAGE**

The data fields contained in the data pages can be configured from *'Main menu > Settings > Full settings > Edit data fields'*. You can also change a concrete data field by opening the contextual menu on it.

3.5 CONTEXTUAL MENU

TwoNav uses contextual menus to display the most appropriate functions for an element: to open the contextual menu of an element, press on it for one second.

Depending on the element on which you open the contextual menu, you may enter different functions. You can access to the contextual menu of:



DATA FIELDS

DATA LISTS

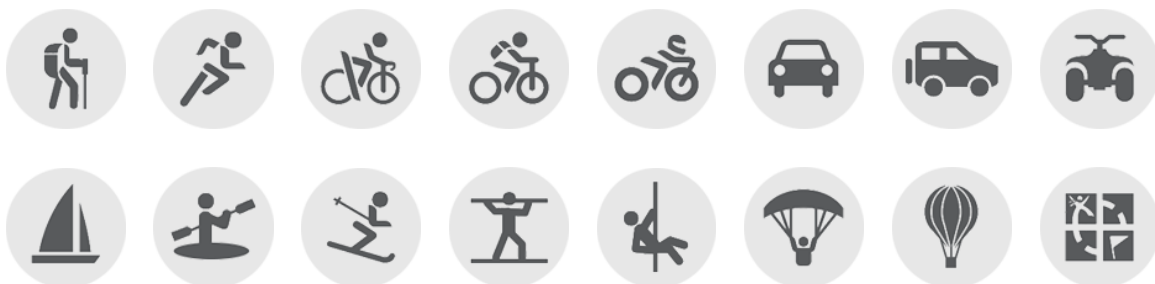
4 NAVIGATION

4.1 PROFILE

Before you start navigating, select the profile that you are about to use from a list of proposed activities:

- **'Main menu > Profile'**

The selection of profile is very important because TwoNav's configuration and calculations will be adapted to the selected profile. Due the fact that each activity has its own special needs, each profile has been developed to have specific settings (restrictions on route calculation, map perspective, alarm settings, data fields shown in data pages, cruise speed...).



By default TwoNav offers several pre-configured profiles, but you can adjust the settings of an existing profile to your needs, all you have to do is press *'Profile settings'* and edit the values you want to re-adjust. If non of the existing profiles suits your activity, create a brand new profile and define all its settings.

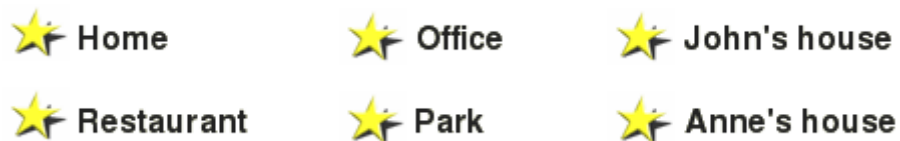
4.2 DESTINATION

Press 'Main menu > Start!' and select your destination:

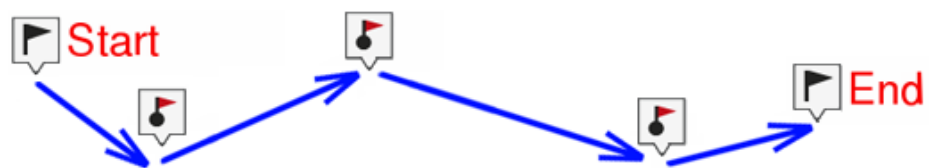
- **Place** (waypoint/geocache/coordinates/...)
 - **Waypoint:** Select a waypoint among the waypoints loaded or created by you.



- **Favourites:** Create your own list of favourite places. By doing this, you will be able to navigate to them quickly. In order to manage your favourite places, press *'Edit'* and create them.



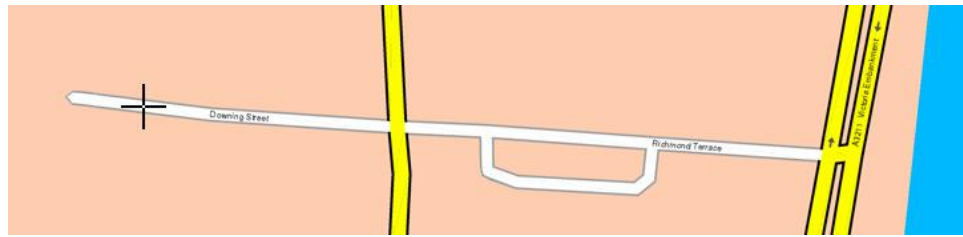
- **Route:** Select a route among the routes loaded or created by you.



- **Geocache:** Select a geocache among the geocaches loaded or created by you.



- **By map:** Select directly on the map the exact location where you want to navigate to.



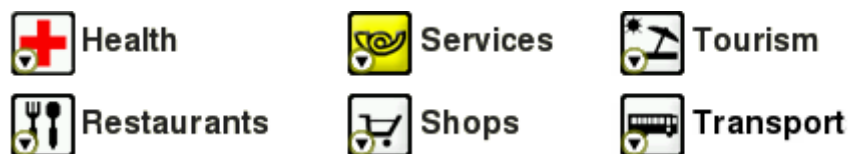
- **Bearing:** The destination point will be determined by setting the bearing and the distance that you are about to navigate.

30 km →  **45°**

- **Address** (*only available when road maps are loaded*): Enter any address where you want to navigate to.

10 Downing Street, London, United Kingdom

- **POI** (*only available when road maps are loaded*): Internet offers you an enormous database of points of interest (gas stations, hospitals, cash dispensers...) that can be downloaded and easily upload to TwoNav. Select the exact POI where you want to navigate to.



- **Coordinates:** Type the exact coordinates for your destination.

LAT: 51° 30' 12" N
LON: 00° 07' 40" W

- **Track** (select a track among the tracks loaded or created by you)



- **Training** (specially designed to improve your performance)
 - **Free:** No destination is determined, set your own movements with no restrictions.

~~1 h 15 m~~

~~30 km~~

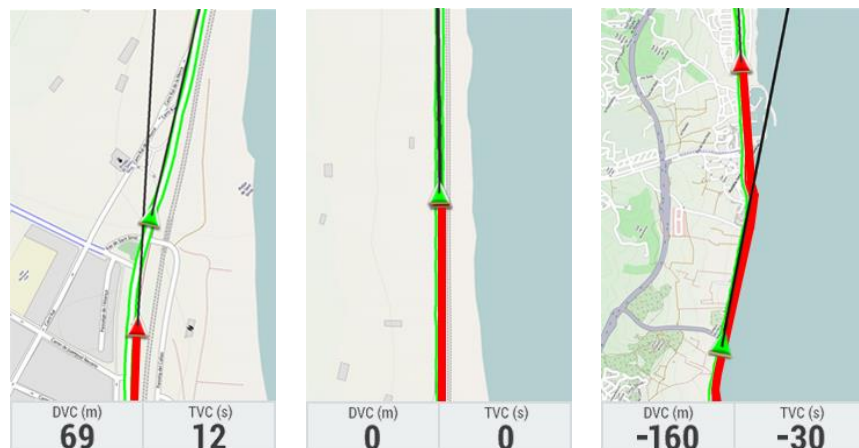
- **Time:** No destination is determined. Set the duration of your training by time and once your goal has been reached, TwoNav will show a warning message.

1 h 15 m

- **Distance:** No destination is determined. Set the duration of your training by distance and once your goal has been reached, TwoNav will show a warning message.

30 km

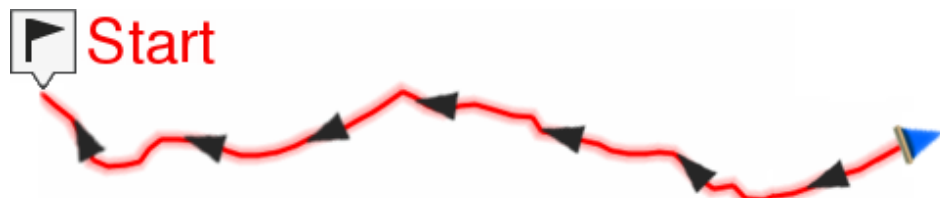
- **Trackattack:** TwoNav can use a previous track as a reference to compare your current performance. Choose a track and start the navigation. A simulation of that track will be played at its original speed, so you can compete against it (*Virtual Coach*). Trackattack is based on two pointers: your current position and an additional pointer, the *Virtual Coach*. Try to improve your results by comparing your current and past performances on map or in graphs in real time.



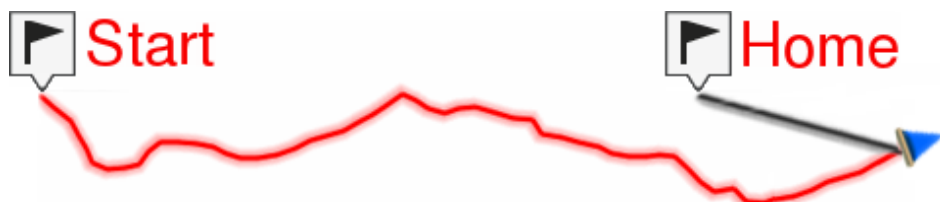
- **Go back** (return to start point or home)
 - **Start point:** Go to the starting point of the recorded track directly from your present position (straight line to the starting point).



- **Trackback:** The currently recorded track up to this moment is inverted, so you can navigate it in reverse. Inverted track file is recorded with a different name: 'Trackback1', 'Trackback2'... By pressing 'Trackback' the recorded track is inalterd and TwoNav keeps recording it.



- **Home:** Go home directly (you have to previously set your home address from favourites management).



- **Historic** (list of destinations recently selected)
- **Free** (no destination is determined, set your own movements with no restrictions)

~~1 h 15 m~~

~~30 km~~

4.3 TRIP PREVIEW

Before you start navigating, TwoNav will display *Trip Preview*. This is basically a middle step where you will be able to check basic information of your itinerary

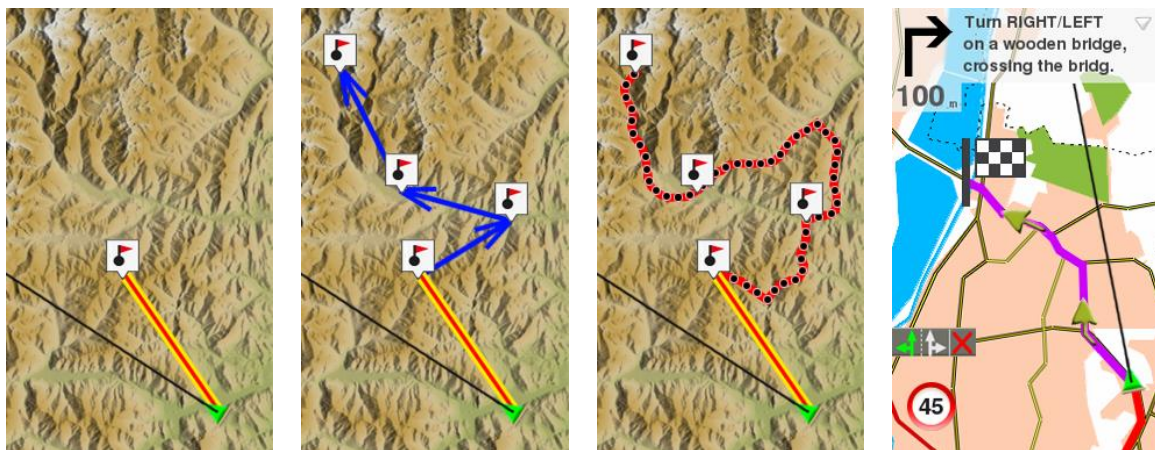
(destination, total distance of the route...) as well as alarm warnings for data fields (deviation from route, speed, slope, altitude...).



Alarm warnings will be automatically displayed during the navigation in a pop up window according to the preferences that you previously set on data fields.

Access full alarm configuration from 'Main menu > Settings > Full settings > Alarms'.

4.4 INDICATIONS



**WAYPOINT
NAVIGATION**

**ROUTE
NAVIGATION**

**TRACK
NAVIGATION**

**ON-ROAD
NAVIGATION**

Depending on the navigation type chosen, you will receive different indications to reach your destination:

- **Place:** A guide line will be drawn pointing to destination.

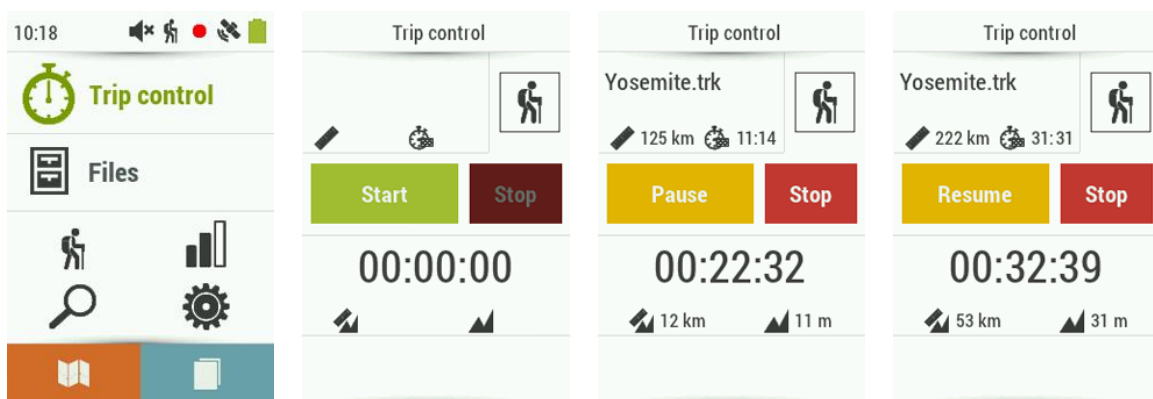
- **Track:** The track to follow will be highlighted and TwoNav will alert you if deviating from track.
- **Training:** Data page with specific fields will be shown according to the selected training mode. Moreover, *'Trackattack'* mode will mark *'Virtual Coach'* position on the map.
- **Go back:** *'Start point'* and *'Home'* get the same indications as *'Place'* navigations while *'Trackback'* indications are the same as if you were navigating a track.
- **Historic:** Indications will be the corresponding ones depending on the navigation type (*'Place'*, *'Track'* or *'Training'*).
- **Free:** Without indications.

4.5 TRIPLOG

At this point, you can start the navigation.



Once started, you can review *'Trip control'* at any moment (*'Main menu > Trip control'*). This page brings you some of the most elementary information of your itinerary (current status of your trip).



**TRIP
CONTROL**

**'TRIPLOG':
STOPPED**

**'TRIPLOG':
RECORDING**

**'TRIPLOG':
PAUSED**

'Triplog' is the command in charge of recording your itinerary, once the 'Triplog' command has been started you can pause it at any time you wish:

- **Start!/Pause:** Press this button to start the trip (select destination), or to pause it at any moment (data fields, recorded track and other functions are synchronized, so you will pause all counters until the trip is resumed again).
- **Stop:** Press this button to finish the current trip and stop 'Triplog'.

The track of your trip is saved at 'Tracklog' folder. But you can directly review your recorded tracks from the list of tracks ('Main menu > Files > Tracks > Tracklog').

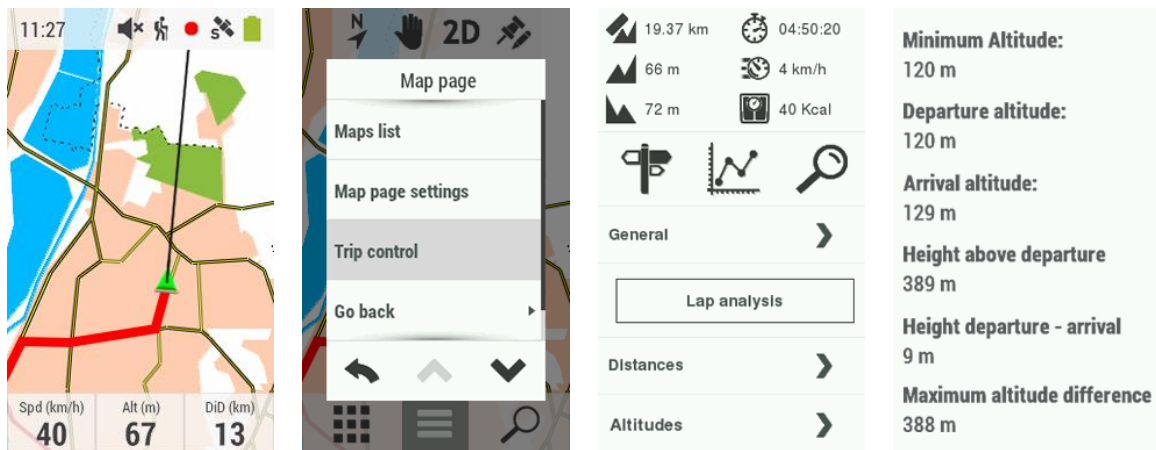
A security system has been added to TwoNav in order to avoid losing tracks in case you forget to start 'Triplog' function. If the option 'Save discarded Tracklog in trash' is enabled, when options 'Pause' or 'Finish trip' are pressed, the following movements will be automatically recorded as backup track copy inside 'TwoNavData/Data/Tracklog/Trash' folder.

NOTE: If you record more than one track at the same day, file's names will be distinguished by a number at the end of the file name. This number identifies the order in which the tracks were created (for example: '2008-12-15-01.TRK', '2008-12-15-02.TRK'...).

4.6 TRIP REVIEW

This function is basically a summary of your trip. 'Trip review' is very useful to analyse all kind of data recorded during your itinerary. Check 'Trip review' from: 'Page tools > Trip review'.

Among several categories of data, this page contains information such as distances, altitudes, elapsed times, speeds, track points, energy data...



'Trip review' also offers you the possibility to compare parts of your trip thanks to graphic representations and lap analysis (sections of the same track divided by time, distance...).

NOTE: You can review the 'Trip review' of the track you have done so far at any moment from 'Page tools > Trip review'.

5 MAPS

By default, TwoNav opens the best map based on your current position automatically. If you prefer to manage your maps manually, disable the 'Auto-open maps' function from 'Main menu > Settings > Full settings > Map page > Automaps'.

Raster maps

Maps digitally calibrated based on bitmap images (if map is scaled, there will be loss of clarity, the quality of the map will degrade).



Topographic: Maps containing information related to the relief of the terrain (elevation contour lines, pathways, national parks...).

Orthophoto: Maps containing aerial photographs with information related to all elements included in the landscape (fields, lakes, roads, buildings,

national parks...).

Cadastre: Maps containing information related to limits of all terrain parcels (fields, roads, buildings...).

Marine chart: Maps containing nautical information related to the sea (depth data, ports, marine services, tides, currents, marine wrecks...).



Vectorial maps

Maps digitally calibrated based on vectors (if map is scaled, there will be no loss of clarity, the quality of the map will not degrade).



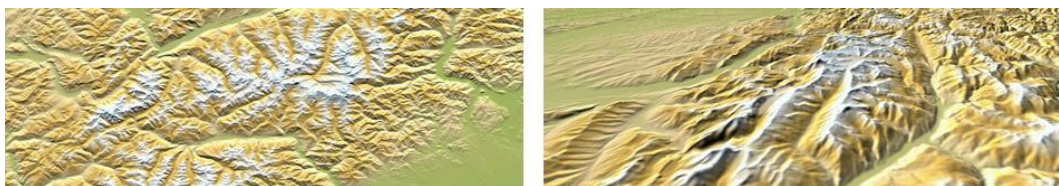
Urban: Maps containing information related to roads and streets (names of the streets, street directions, points of interest...).

Topographic: Maps containing information related to the relief of the terrain (elevation contour lines, pathways, national parks...).



3D relief maps

Maps digitally calibrated based on elevation reliefs containing information related to the altitude of the ground. With a relief map loaded you may display your maps in 3D+ mode.



On-line maps

Remote maps only accessible if internet connection is provided.

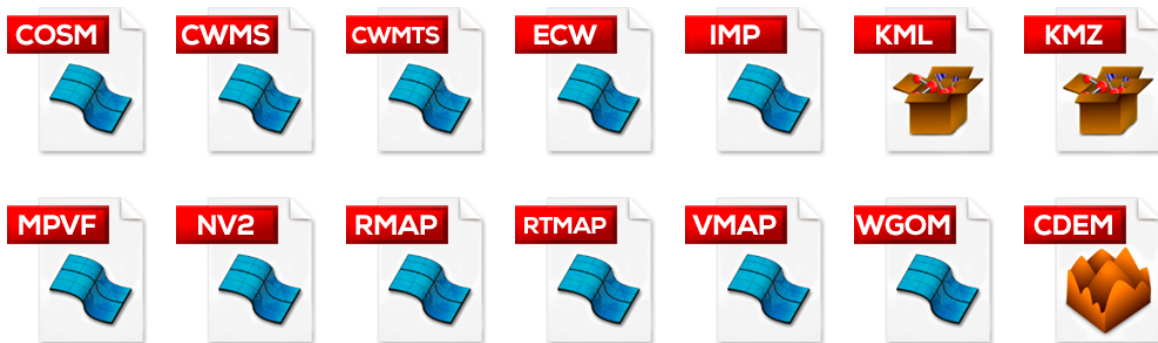


Locked maps

Maps not activated. In order to start working with them, enter a license code.

NOTE: TwoNav offers you a wide range of maps from all around the world to complement your cartography, just visit <http://www.TwoNav.com>

See your list of available maps from 'Main menu > Files > Maps' (all maps available at 'TwoNavData/Maps' folder for your present position). TwoNav can open the following map formats depending on the device:



In addition to maps, you can also work with different position references for guidance: waypoints (separate points), routes (a sequence of waypoints), tracks (itinerary footprint)... You can get these references by creating them yourself or from other sources (friends, webs, meeting planners...).



IMPORTANT: More map formats can be easily imported and converted to supported formats using Land software (Windows/Mac), more information at <http://www.TwoNav.com>

5.1 PROPERTIES

Enter the properties of a map from: 'Main menu > Files > Maps > Press the name of any opened element':

- **Name:** Name of the map file.
- **Description:** Short description about the map by the provider.
- **Type:** Type of map.
- **Scale:** Ratio between the distance of two points represented on the map and their real distance on terrain.

- **Resolution:** Relation between the distance of the ground in meters and a pixel (meters/pixel). A fewer number will represent a more detailed map.
- **Primary:** In case of conflict between maps, if this field is marked, other maps will be adapted to this one.
- **Projection:** Projection used to calibrate the map. There are several types of cartographic projections classified depending on the areas they cover.
- **Extension:** Width and height of the area covered by the map.
- **Rows/Columns:** Number of rows/columns the landscape is made up of (altitude/width)
- **Datum:** Used to translate the positions of elements (waypoints/tracks/routes) to the exact position on the earth. Datum systems are needed because the earth is an imperfect ellipsoid. Choose the most suitable datum for the map that are working with.
- **Memory used:** RAM memory used by the uncompressed map.
- **Image:** Name and size of the image used to produce the resulting map as well as the color quality of the map.
- **Transparent:** Regulate the level of transparency of the map allowing you to work with several maps at the same time overlapping them in different layers.
- **Calibrating points:** Number of points used to calibrate the map.
- **Far/Near zoom:** Maximum and minimum zoom values between which the map is visible on the screen. These values allow to enlarge or decrease the size of the map up to the limitation of these settings.
- **Errors received:** Comments regarding the map.

5.2 MULTIMAPS



With TwoNav you can load more than one map at the same time. But if you have two maps for the same area displayed on the interface, one of them can be displayed at the top by superposition, select the map you wish to be placed at the top/bottom and press: "Pin' mode > Map > Multimaps'.

- **Bring to front**
- **Send to back**











6 WAYPOINTS/ROUTES/TRACKS

6.1 WHAT IS A WAYPOINT?



The waypoint is a point defined by a geographical position, latitude and longitude coordinates and in most cases altitude, used by the GPS navigation tools. Waypoints are represented on screen as points with name or representative icon.

The waypoints are kept inside Waypoints Files (usually in *.WPT format), so a Waypoints File may contain one or more waypoints. You can have several waypoints files opened, but created waypoints will be always saved inside an Active Waypoints File (AWF).

<input checked="" type="checkbox"/>  Active Waypoints File.wpt	<input checked="" type="checkbox"/>  Waypoints File 2.wpt
 Waypoint 1	 Restaurant
 Waypoint 2	 Hotel
 Waypoint 3	<input checked="" type="checkbox"/>  Waypoints File 3.wpt
 Waypoint 4	 National Park

By default, the Active Waypoints File is called *Waypoints.WPT*, but you can set as Active Waypoints File any other file (marked with an asterisk): select *'Set as active waypoint'* option. When a new waypoints file is created, it will be automatically set as active.

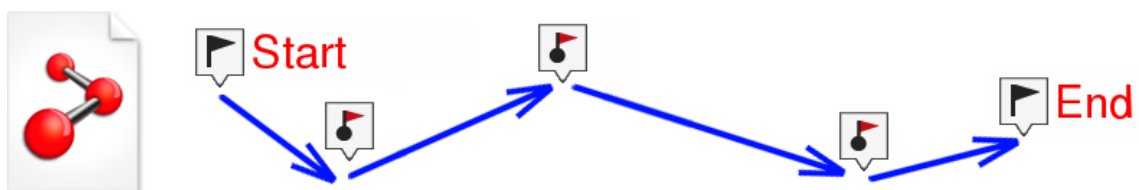
NOTE: Full customization of Active Waypoints Files can be check at: *'Main menu > Settings > Full settings > Advanced > Active waypoints mode'*.

See your list of available waypoints from *'Main menu > Files > Waypoints'* (all waypoints available at *TwoNavData/Data*). TwoNav can open the following waypoint formats:















IMPORTANT: More waypoint formats can be easily imported and converted to supported formats using Land software (Windows/Mac), more information at <http://www.TwoNav.com>

6.2 WHAT IS A ROUTE?



A route is a group of waypoints ordered in a predetermined way. It is a way of navigating that allows for planning a course from one place to another going through various waypoints. Routes are used when it is not possible to reach a place in a direct way (in straight line).

<input checked="" type="checkbox"/>  Route.RTE	<input checked="" type="checkbox"/>  Route in London.RTE
 Start	 Start: Camping
 Waypoint 2	 Waypoint 2: Restaurant
 Waypoint 3	 Waypoint 3: Hotel
 Waypoint 4	 Waypoint 4: National Park
 Arrival	 Arrival: Supermarket

See your list of available routes from 'Main menu > Files > Routes' (all routes available at 'TwoNavData/Data'). TwoNav can open the following route formats:












IMPORTANT: More route formats can be easily imported and converted to supported formats using Land software (Windows/Mac), more information at <http://www.TwoNav.com>

6.3 WHAT IS A TRACK?



A track is a group of points ordered by time, where each point contains information on the position, time and date, coordinates and, in most cases, altitudes.

<input checked="" type="checkbox"/>  Track.TRK	<input checked="" type="checkbox"/>  Track in Dublin.TRK
 Start	 Start: Home
 Arrival	 Waypoint 2: Bar
	 Waypoint 3: Swimming
	 Waypoint 4: Gas Station
	 Arrival: Office

See your list of available tracks from 'Main menu > Files > Tracks' (all tracks available at 'TwoNavData/Data'). TwoNav can open the following track formats:



IMPORTANT: More track formats can be easily imported and converted to supported formats using Land software (Windows/Mac), more information at <http://www.TwoNav.com>

6.4 BASIC OPERATIONS: WAYPOINTS/ROUTES/TRACKS

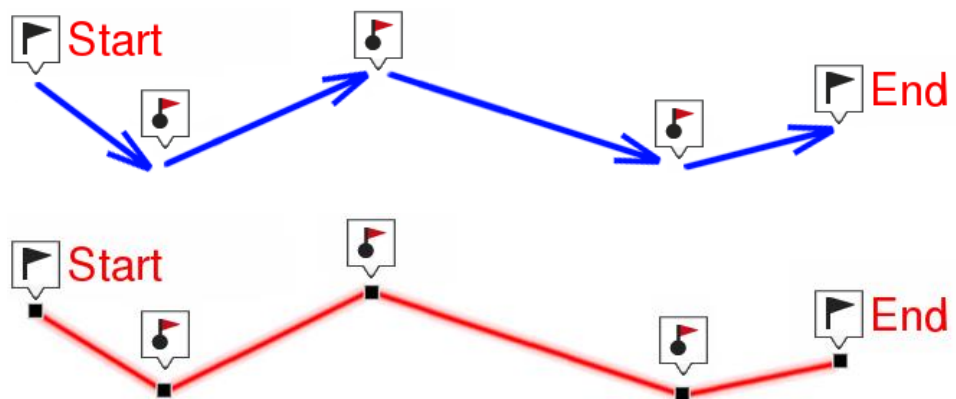
Basic operations that can be performed either on waypoints, routes or tracks:

- **Creation of waypoints/routes/tracks:**
 1. On map window, do a long press at the exact location where you want to create the reference and open the 'Pin' mode.
 2. Choose the type of item that you want to create (waypoint/route/track).

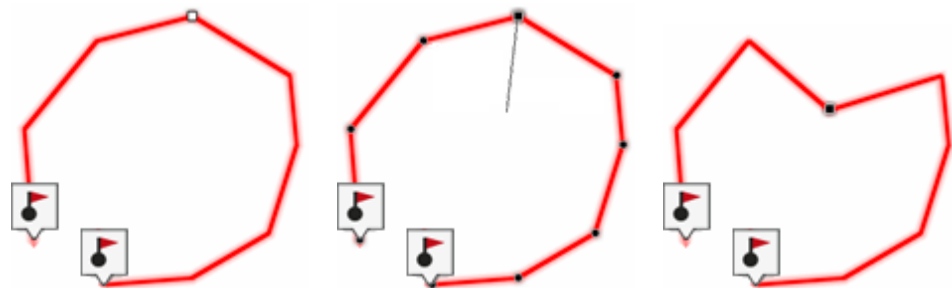
- Fill in the basic information of the item.



- If you create a route/track, click successively on the map in order to create the following points (waypoints are only based on single point with no union between them). Once finished press 'Close edition' at the toolbar.

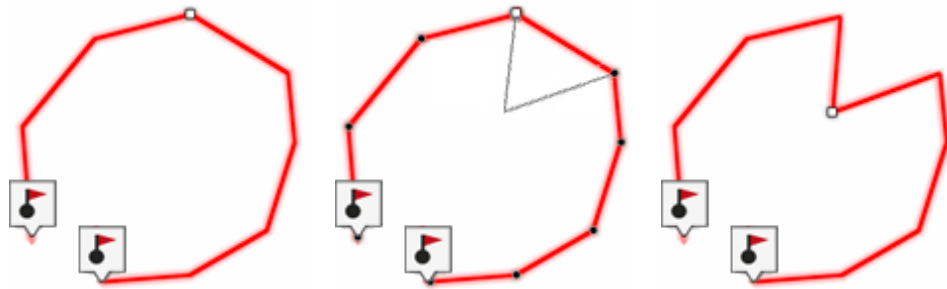


- Move position of points:**

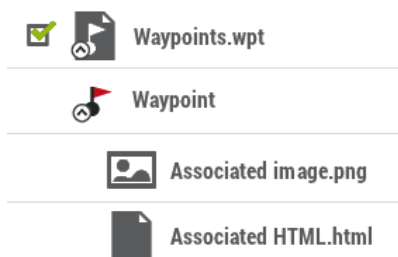


- Open the 'Pin' mode on the point and select 'Edit'/'Move'.
- Drag the point to the exact point where you wish to place it.
- Once finished press 'Close edition'.

- Add points to a route/track:**



1. Open the *'Pin'* mode on the point and select *'Edit'*.
 2. Select the point after which you want to add a new point doing a short click.
 3. Press the exact point where you wish to create the new point.
 4. Once finished press *'Close edition'*.
- **Add associated files to waypoints/routes/tracks:** Your items can have associates files such as images, sounds, texts... Check the associated files of your elements from data lists (*'Main menu > Files'*).



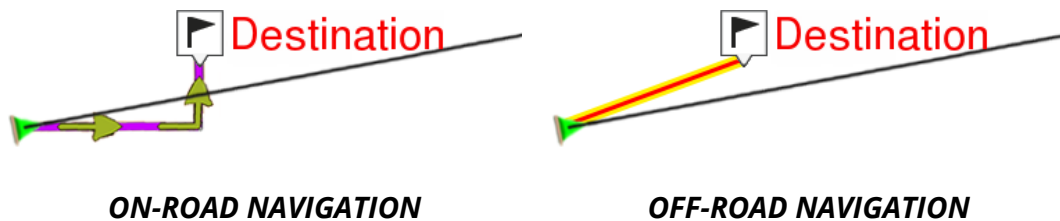
Moreover, if individual waypoints have associated files, you will be able to reproduce their associated files:

- **Automatically:** When current GPS position is inside the radius of the waypoint. Automatic play can be configured from *'Main menu > Settings > Full settings > Alarms > Waypoints'*.
- **Manually:** When current GPS position is inside the radius of a waypoint with associated file, *'Info Current'* will show a symbol. Associated file will be reproduced when clicking on it.

NOTE: Rich-formatted *.HTML texts can be associated and displayed on-screen using certain HTML tags (font size, font color, title levels, text in

blod, text in italics, text underlined, background color, text alignment, attached images...).

- **Navigate to a waypoint/route/track:** You can navigate to any of your references from:
 - **'Main menu > Start!'**
 - **Data lists ('Main menu > Files'):** Select the item that you want to reach and press *'Navigate'*.
 - **Map window:** Find the item that you want to reach, open the *'Pin'* mode and press *'Navigate'*.



Navigation towards to the first waypoint will be activated from your current position. If navigating routes/tracks, once the first point has been reached, you will be guided to the second one, and so on.

- **On-road navigation:** TwoNav will try to automatically calculate a sub-route through the streets in order to orientate you in detail with sound indications.
- **Off-road navigation:** A straight line will be displayed from your current position to the next waypoint.

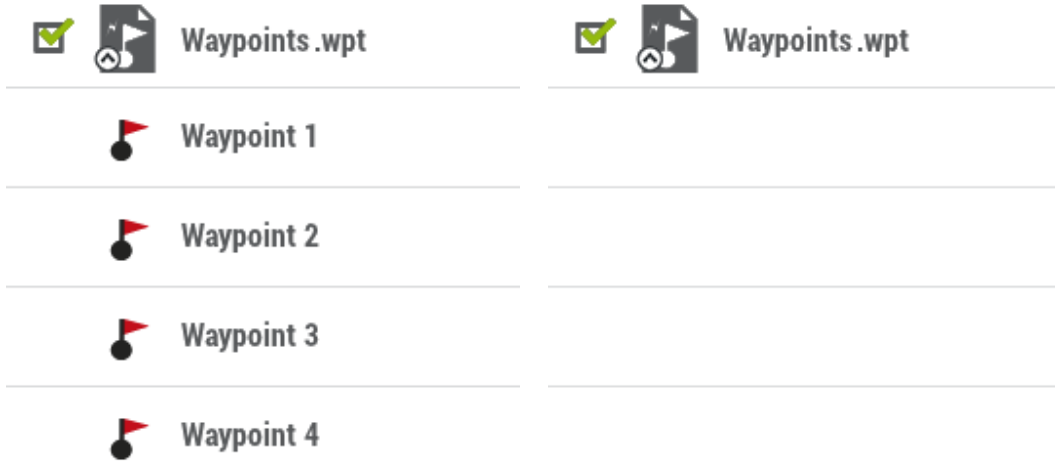
6.5 ADVANCED OPERATIONS: WAYPOINTS

Advanced operations that can be performed on waypoints:

- **Modifiy for all waypoints:** If any of these properties is modified, it will be applied for all waypoints at the same time.



- **Reset:** By pressing 'Reset' at any Active Waypoints File (AWF), you will delete all the waypoints of that specific active file.













6.6 ADVANCED OPERATIONS: ROUTES

Advanced operations that can be performed on routes:

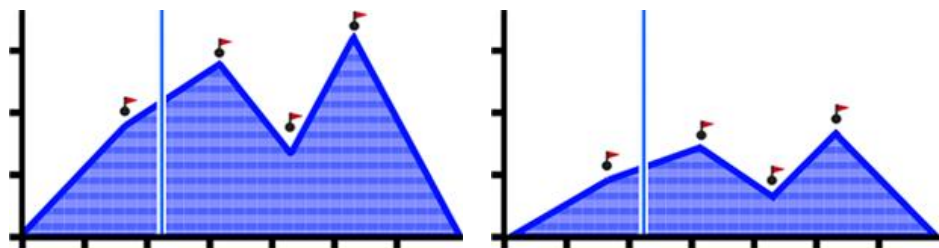
- **Modify for all waypoints:** If any of these properties is modified, it will be applied for all waypoints at the same time.



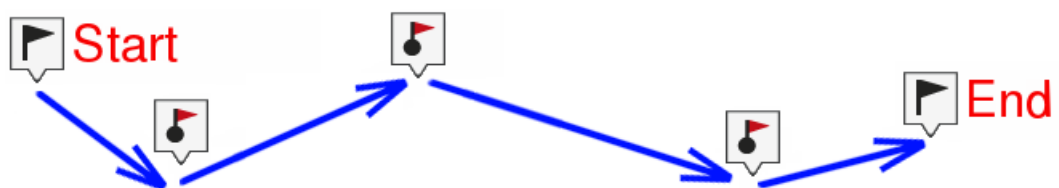
- **Change the order of the waypoints in a route:** In order to change the order of the waypoints of a route, open the contextual menu on the waypoint that you want to move and select 'Move up' or 'Move down'.

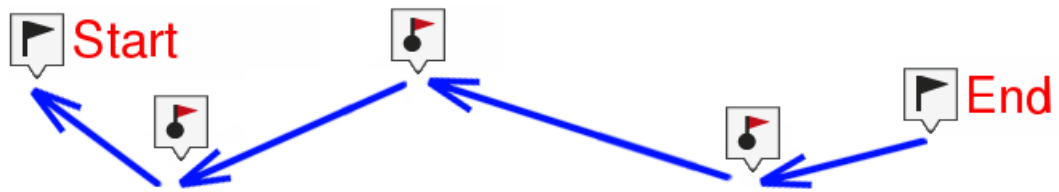
<input checked="" type="checkbox"/>  Route.RTE	<input checked="" type="checkbox"/>  Route.RTE
 Waypoint 1	 Waypoint 3
 Waypoint 2	 Waypoint 4
 Waypoint 3	 Waypoint 1
 Waypoint 4	 Waypoint 2

- **Graph representation of routes:** Display a graph representation of your route, just enter the properties of the element and press the button 'Graph representation'. These are the available functions on graphs:

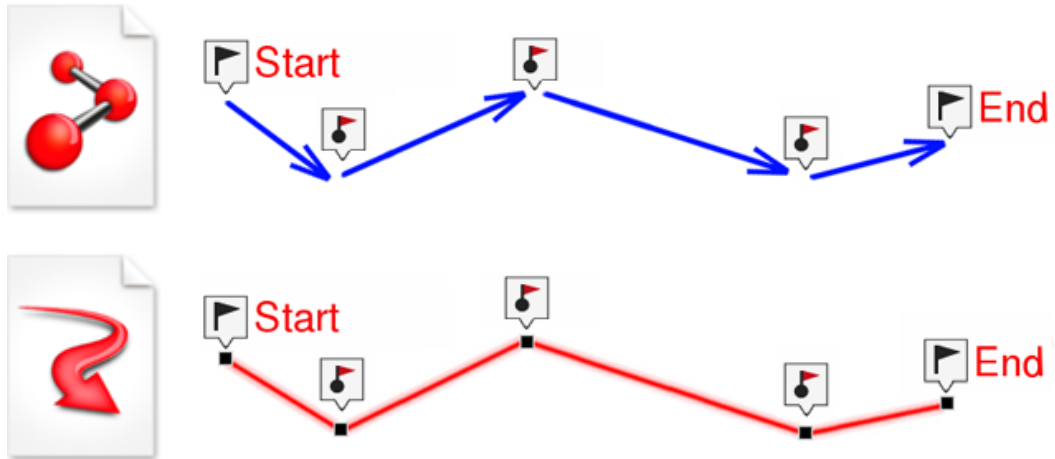


- **Guiding Y axis:** Bar serving as moving axis.
 - **Moving graph:** Use 'Zoom' buttons to sections of the graph with more detailed precision (graph scrolling can also be applied by dragging the graph up and down as well as laterally).
 - **Automatic re-center:** Press 'Re-center' button to automatically re-center the graph.
- **Invert a route:** In order to display a route in the opposite sense to the default one (the beginning at the end and viceversa), open the contextual menu of the route and select 'Tools > Invert the route'.





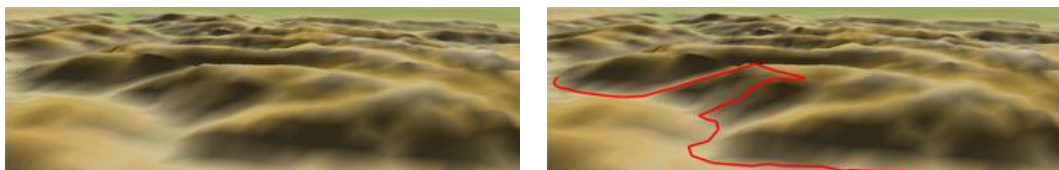
- **Convert a route into a track:** In order to change a route into a track, open the contextual menu of the route and press *Tools > Change into a track*.



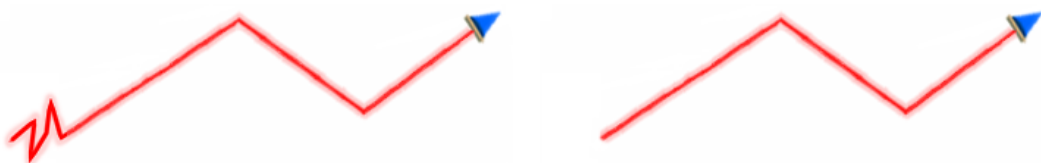
6.7 ADVANCED OPERATIONS: TRACKS

Advanced operations that can be performed on tracks:

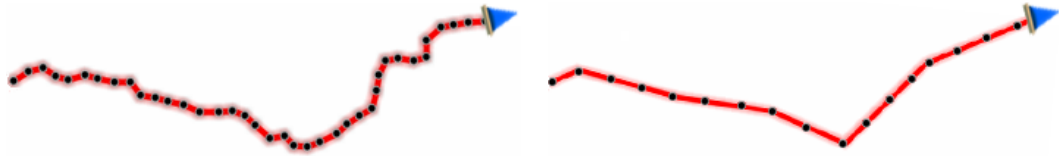
- **Import altitudes:** If you have a 3D relief map loaded (*.CDEM file), TwoNav will assign to each point of the track its altitude considering the information of the loaded relief map.



- **Delete stopped points start/end:** Track will omit the repetitive points from the beginning and the end where you stopped before and after making the track.



- **Reduce the number of points:** Track will be drawn by keeping the shape of the original track but according to the number of points that you introduce.

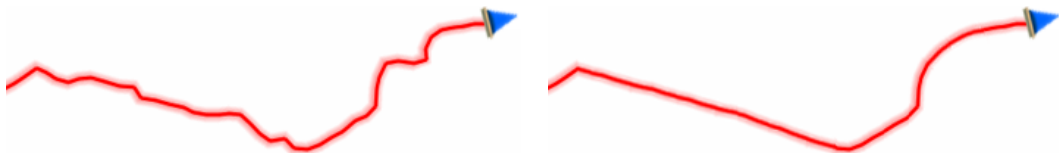


- **Assign time/speed to track points:** Determine a time for departure and a constant speed so that TwoNav will calculate the estimated time of arrival for each point in the track.

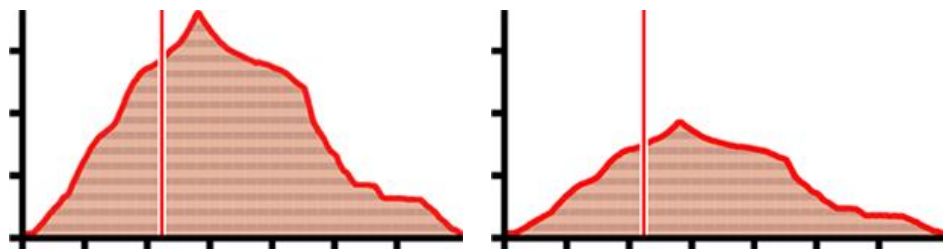
09:30:15

50 km/h

- **Delete aberrant points:** Points deviating excessively from the track will be considered errors, and so deleted.

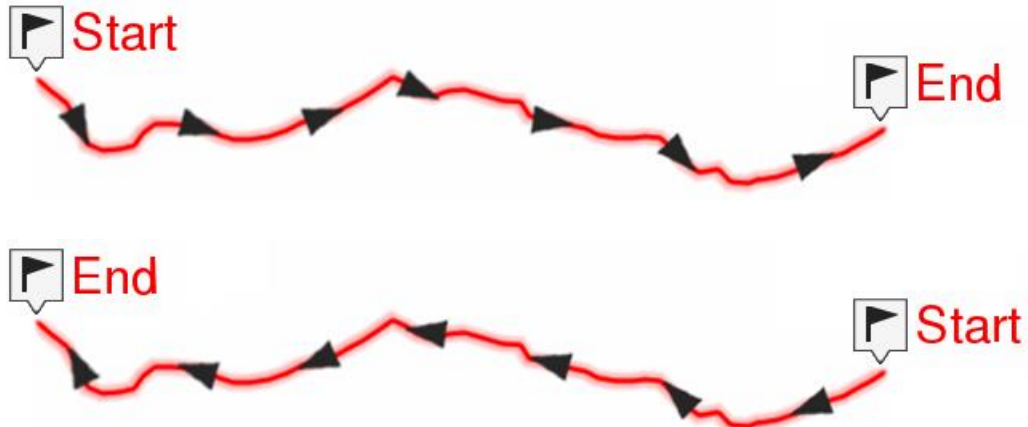


- **Graph representation of tracks:** Display a graph representation of your track, just enter the properties of the element and press the button 'Graph representation'. These are the available functions on graphs:

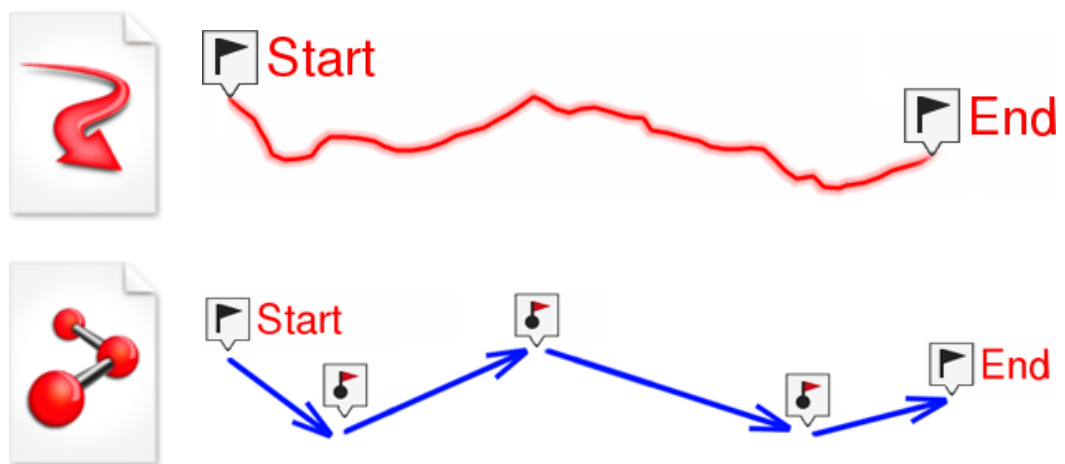


- **Guiding Y axis:** Bar serving as moving axis.
- **Moving graph:** Use 'Zoom' buttons to sections of the graph with more detailed precision (graph scrolling can also be applied by dragging the graph up and down as well as laterally).
- **Automatic re-center:** Press 'Re-center' button to automatically re-center the graph.

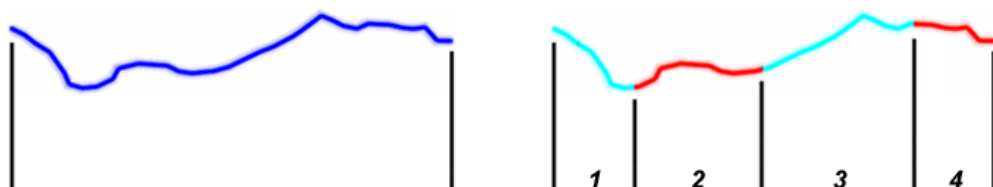
- **Invert track:** In order to display a track in the opposite sense to the default one (the beginning at the end and viceversa), open the contextual menu of the track and select *Tools > Reverse the track*.



- **Convert a track into a route:** In order to change a track into a route, open the contextual menu of the track and press *Tools > Change into a route*.



- **Create separate laps on an existing track:** You may split the track in several laps by opening the contextual menu on the point that divides the two selected laps and select *Laps > Change lap here*. At this moment, the lap closer to the end of the track will change color to highlight the difference between the two lap.

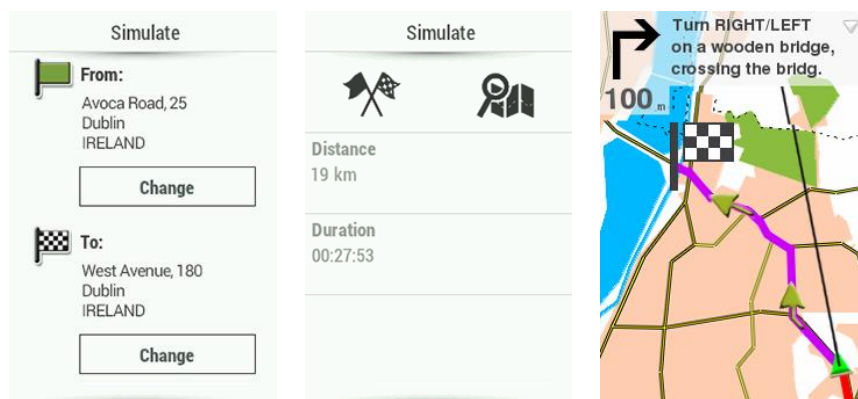


7 ADDITIONAL FEATURES

7.1 SIMULATE

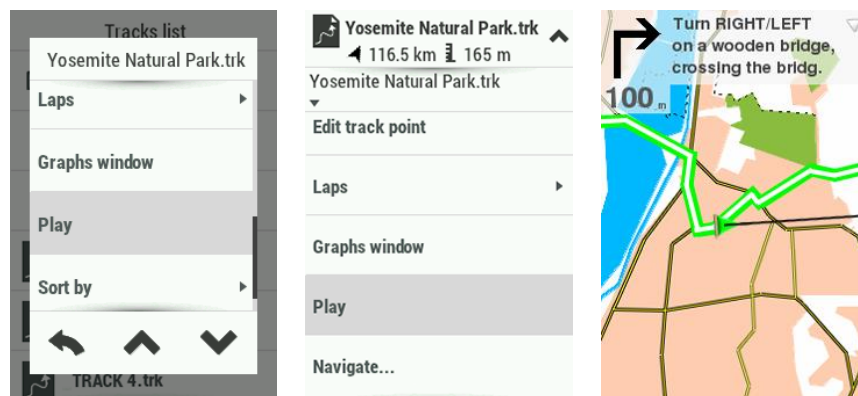
See a representation of your itinerary before starting the navigation. Choose your type of simulation according to your needs:

- **A → B (only in on-road navigation):** Proposed route will go from point A to point B. From 'Main menu > Zoom to > Simulate', choose two points (waypoint/POI/address/favourites/...).



- **Reproduce track:** Animation of the itinerary will be displayed. During the animation, the simulated position will become the prevailing one instead of your current position, position will be centred on it and the statistics will be related to it. Do a track simulation from:

- **List of tracks:** Open the contextual menu on the track that you want to simulate and press 'Play'.
- **Map window:** Find the track that you want to simulate, open the 'Pin' mode and press 'Play'.



With the simulation on, the simulated position will be displayed with a different icon to distinguish it from your current position. At the same time, some tools to manage the simulation will appear at the tool bar:

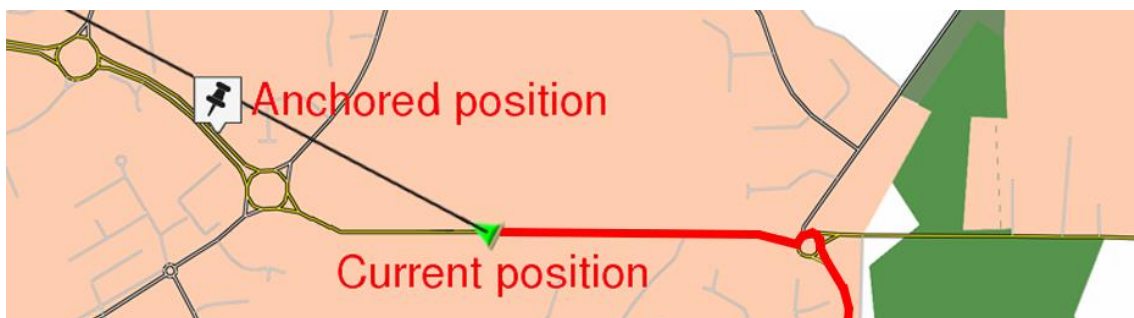


- **Pause:** Pause function. Press it again to resume the simulation.
- **FF/RW:** Accelerate the simulation. Press it again to apply normal speed.
- **FF to next/RW to previous:** Jump to next/previous event.
- **Stop:** Stop the simulation (*Tool bar > Stop simulation*).

7.2 ANCHOR

To anchor a virtual position somewhere is to virtually replace your current position for a new position in the map.

Once fixed, information displayed on proximity fields and 'Pin' mode will be based according to the new anchored position, and not on your real position. Moreover, if 'Anchor here' is pinned, options such as 'Re-center' map will be applied to the anchored waypoint instead of your current position.

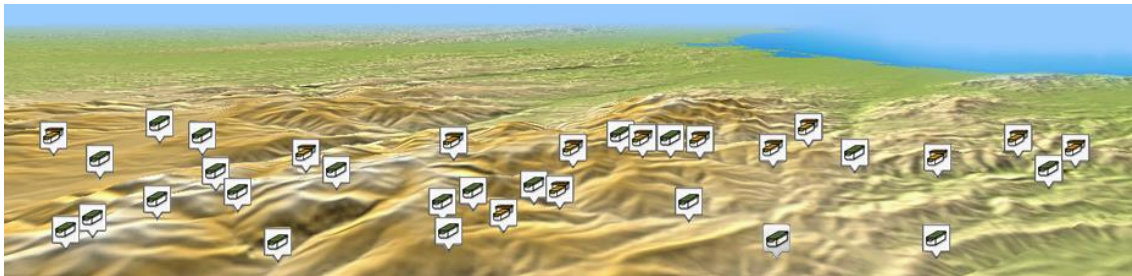


In order to anchor a position reproduce any of these options:




- **'Map window > Pin' mode > Anchor here'**
- **'Main menu > Files > Item > Contextual menu of waypoint > Anchor here'**

In order to unpin the fixation and restore the current position as the default one, press: *'Pin' mode > Unanchor*.

7.3 GEOCACHING



Geocaching is an outdoor treasure hunting game that uses GPS devices. Participants navigate to a specific set of GPS coordinates (the geocache) and attempt to find a container hidden at that location. This container may include a reward for the participant. The result of this experience is to share your geocaching stories on-line and to have fun and enjoy the nature.

<input checked="" type="checkbox"/>  GEOCACHING.gpx	Name: Les Salines	Container: Small	Time: 09:00:00
 La Font de la Cabrassa	Description: Salines	Country: Spain	Altitude: 1125 m
 Coin Hotel	Difficulty: 1.5	Placed by: qespluga	Proximity: 177.1 km
 Les Salines	Terrain: 3.5	Owner: qespluga	Bearing to go: 010 °
	Type: Traditional Cache	Date: 28-03-2008	

TwoNav provides you all the necessary tools to practice paperless geocaching. Geocaching tools are centralized at:

- **'Main menu > Files > Geocaching'**

Work with geocaching files like as any other waypoints file, although geocaches include extra information comparing to normal waypoints. Among information, you can check notes from other users (*logs*) or even create your own notes:

- **Geocache currently set as destination:** *'Main menu > Files > Geocaching > Field notes'*.
- **Any geocache:** *'Main menu > Files > Waypoint > Properties > Field notes'*.

Fields notes are saved inside 'Geocache_visits.txt'. This file allows you to easily upload your fields notes to any geocaching server from internet such as <http://www.geocaching.com>

NOTE: From 'Main menu > Settings > Full settings > Map page > Objects on map > POIs & Geocaches > Hide found geocaches', you will be able to show/hide current geocaches. Geocaches which have been labelled as 'Found geocache', will not appear in the list. By doing this, there will be no need to see geocaches that were previously found.

In order to be fully compatible with paperless geocaching, waypoints' file must contain geocaching extensions providing information about the geocache (description, difficulty, terrain...). TwoNav can open the following geocaching formats:



NOTE: *.LOC files will also be listed when choosing a geocaching destination, but these files cannot be considered as fully compatible with geocaching because they do not include geocaching extensions, so extra information as description or field notes will not be available.

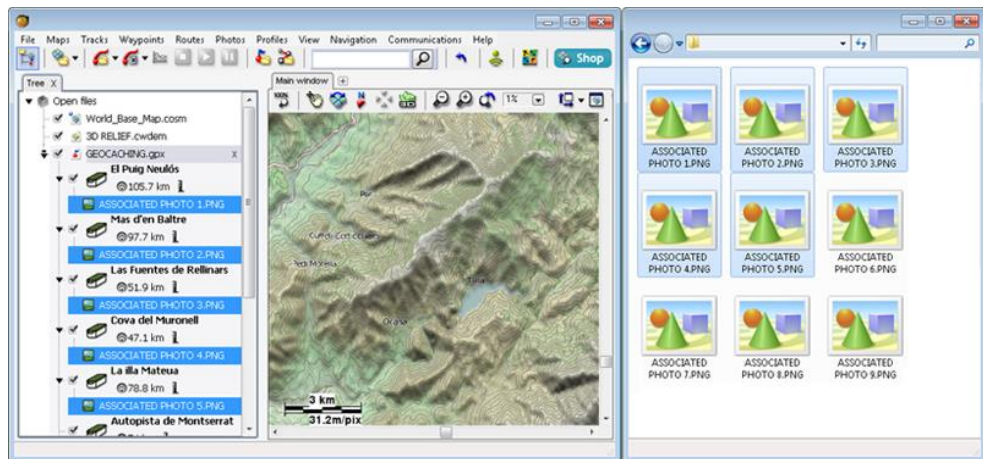
7.3.1 ADD ASSOCIATED FILES



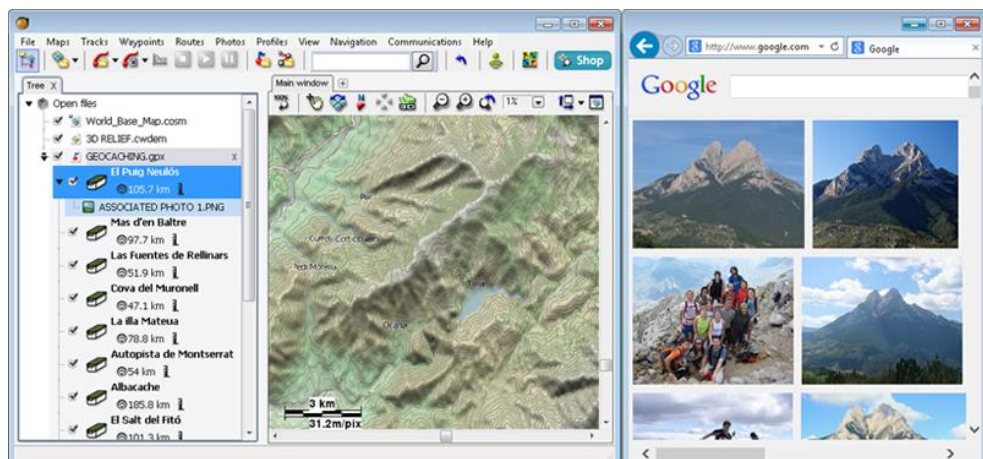
IMPORTANT: Files can be easily associated using Land software (Windows/Mac), more information at <http://www.TwoNav.com>

Geocaches can have associates files such as images, sounds, texts... They can also be reproduced from 'Main menu > Start! > Place > Geocaching', after setting geocache as destination. Follow next steps to associate files to a geocaching file using Land software:

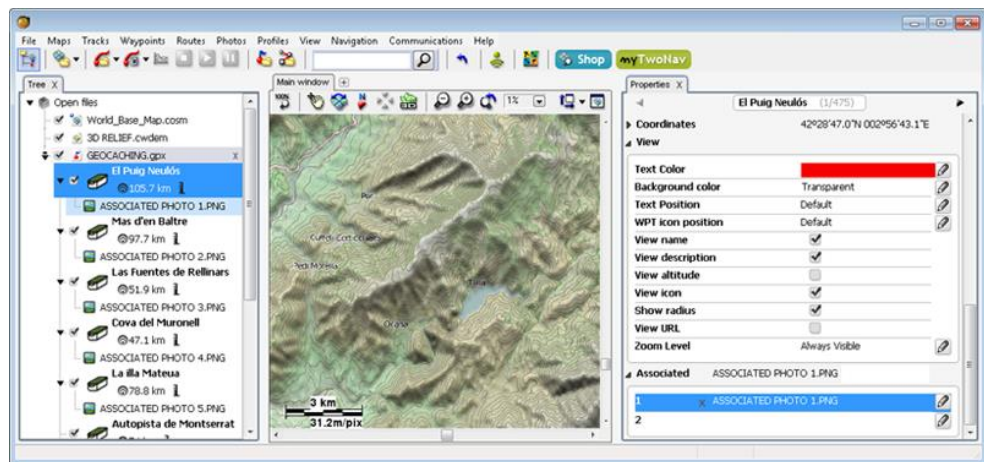
1. Install Land in your computer (Windows/Mac platforms), more information at <http://www.TwoNav.com>
2. Start Land software and open geocaching files. Geocaches will appear at 'Waypoints' section at the data tree.
3. Add files to geocache using one of these methods:
 - **Drag files from Windows/Mac explorer:** Keep the left mouse button pressed on the file and drag it to the waypoint.



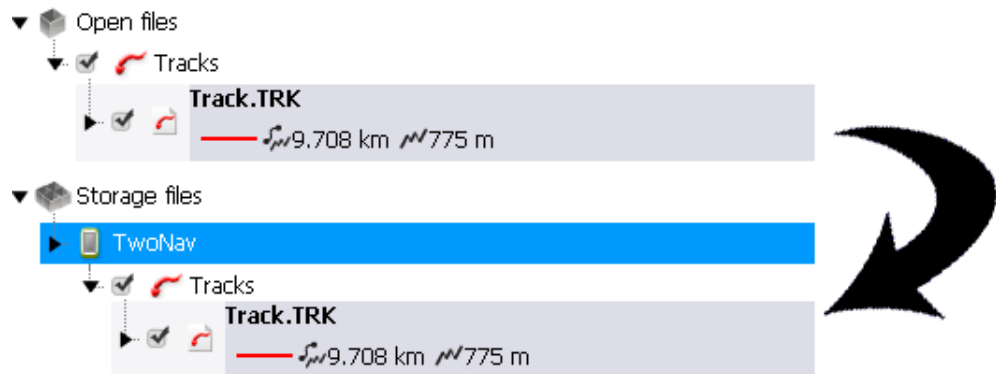
- **Drag files from internet browser:** Drag them directly from browser. Just drag the image to waypoint at the data tree.



- **Add them manually:** From 'Associated' section at waypoint properties.

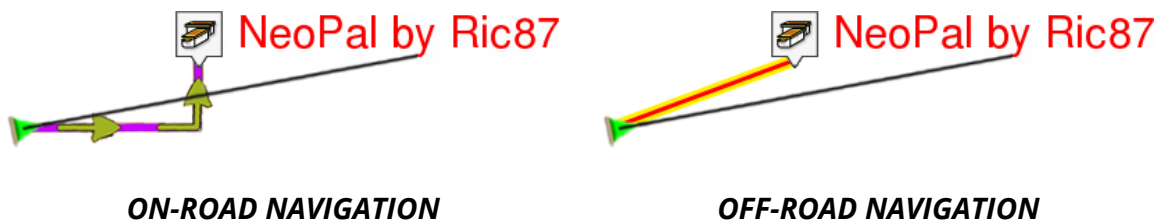


4. Save the resulting file in *.WPT format: Open contextual menu on the waypoints file and select 'Save'



5. Send the resulting file to your TwoNav device: Use 'Send to' function.

7.3.2 NAVIGATE A GEOCACHE



You can navigate to a geocache from:

- **'Main menu > Start!'**
- **'Main menu > Files > Geocaching > Start!'**
- **List of waypoints:** Select the geocache that you want to reach and press 'Navigate' button.

- **Map window:** Find the geocache that you want to reach, open the 'Pin' mode and press 'Navigate'.

7.4 E-ROADBOOK



TwoNav has developed a new concept of navigation by providing you a brand new tool to have fun and enjoy the nature: e-Roadbooks.

A roadbook is a diagram tool commonly used by rally co-drivers and walkers that help them to navigate uncertain terrains. Traditional roadbooks contain several pages of information such as charts, GPS coordinates, written instructions, manoeuvres...



- Natural Park of Las Salinas.BTRK

- Start

- Turn RIGHT at the beach

- Turn LEFT on a wooden bridge

- Turn RIGHT at the tower

- STRAIGHT on the main track

- LEFT on the main track

e-Roadbooks, contain all this information in digital format with no need to read indications in a book, TwoNav will display all manoeuvres on the screen. Convert your excursions into a big challenges, or even turn them into a funny game in harmony with nature...

TwoNav can open the following e-Roadbook formats:



7.4.1 CREATE AN E-ROADBOOK



IMPORTANT: You can easily manage, transfer and analyse your own elements using Land software (Windows/Mac), more information at <http://www.TwoNav.com>

In order to create an e-Roadbook you need several essential tools:

- **A track**
- **The book where items are stored with the images and descriptions**
- **Land software (Windows/Mac platforms)**

Follow next steps to create an e-Roadbook file using Land software:

1. Install Land in your computer (Windows/Mac platforms), more information at <http://www.TwoNav.com>
2. Start Land software and open the track file. Track will appear at 'Track' section at the data tree.
3. Once opened, open its contextual menu and select 'Edit roadbook'. A new window will appear containing all waypoints of the track.

	Time	Icon	Dist.[m]	Croquis	Description
1	09:29:38		0		Start from the parking, at the roundabout take the exit that leads between the hotels to the beach.
2	09:32:59		220		Turn RIGHT at the beach, follow the sand track that runs parallel to the hotel until the end of the beach.

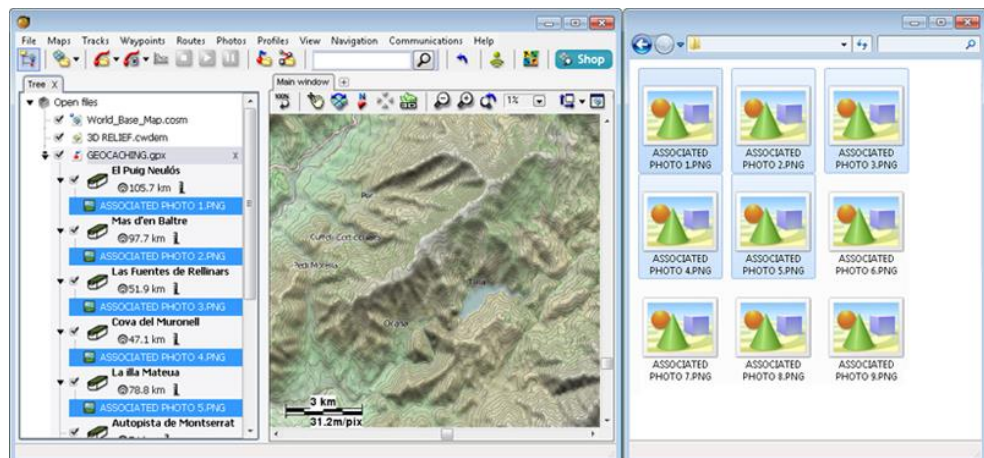
4. Now you can edit the e-Roadbook points with relevant information:

- **Description:** Write important manoeuvres, information about monuments, notable facts...
- **Croquis:** Associate image showing navigation signs for an easy orientation.

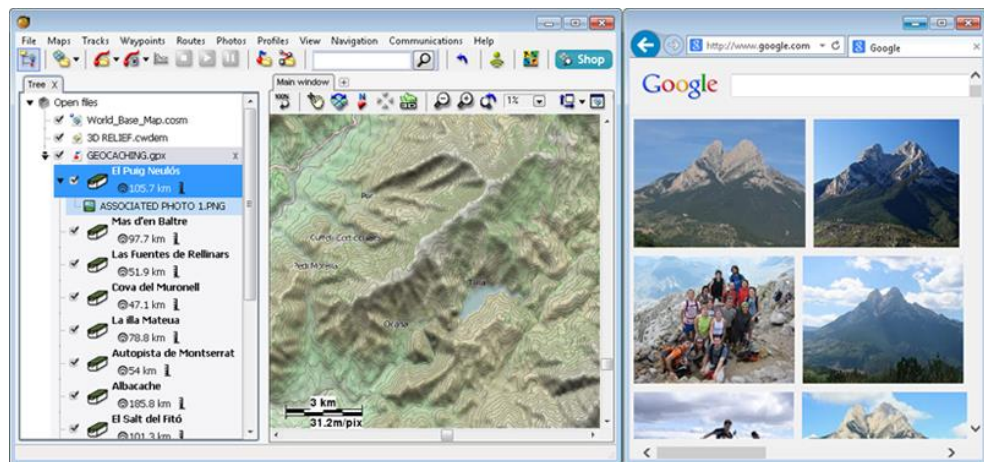
IMPORTANT: To associate images you should edit, cut and save them using a suitable format (*.BMP) and size (128x128 pix.), so that they can fit TwoNav interface. Search for the right image editor to edit pictures.

5. If you wish, add files to the waypoints of the e-Roadbook using one of these methods:

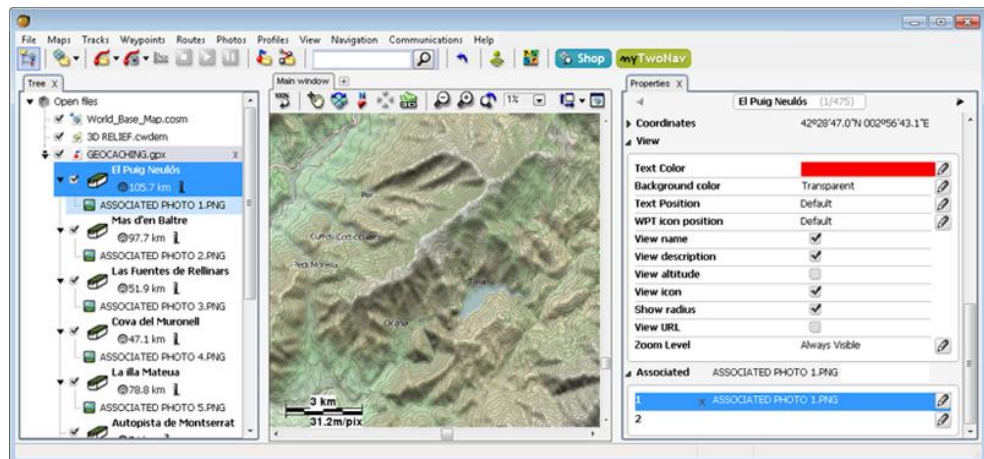
- **Drag files from Windows/Mac explorer:** Keep the left mouse button pressed on the file and drag it to the waypoint.



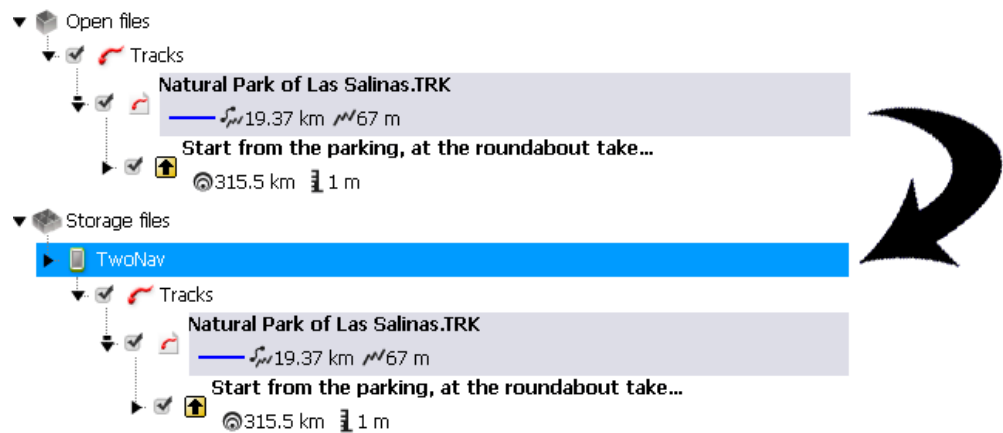
- **Drag files from internet browser:** Drag them directly from browser. Just drag the image to waypoint at the data tree.



- **Add them manually:** From 'Associated' section at waypoint properties.

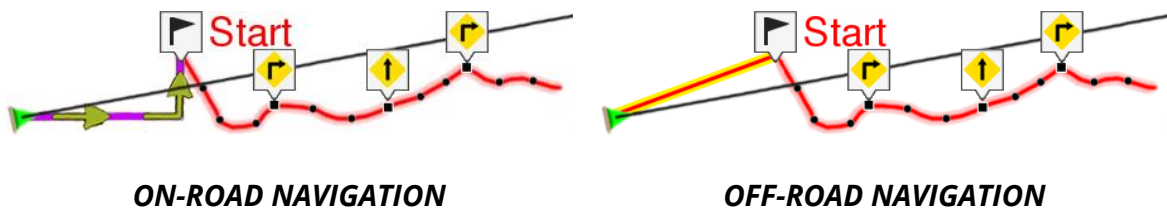


6. Additionally, if you want to create new roadbook points somewhere else in the track, place the mouse at the exact location on the track, open the contextual menu on that point and press 'Create a roadbook point here'.
7. Repeat this action for each e-Roadbook point that you want to highlight.
8. Save the resulting file in *.BTRK format: Open contextual menu on the track file and select 'Save'.
9. Send the resulting file to your TwoNav device: Use 'Send to' function.



IMPORTANT: Do not delete the e-Roadbook in *.TRK format since the resulting *.BTRK is not editable. If you want to change any parameter, modify the *.TRK file and save it again in *.BTRK format.

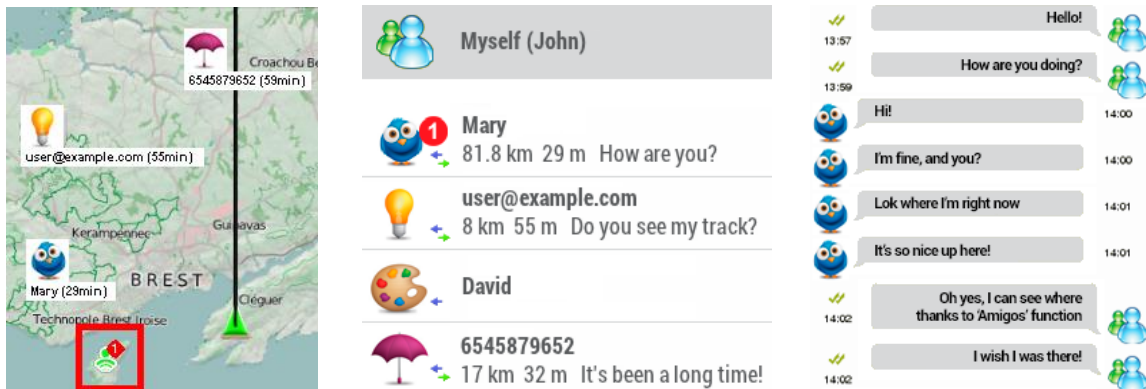
7.4.2 NAVIGATE AN E-ROADBOOK



Like any other track, you can navigate an e-Roadbook from:

- **'Main menu > Start!'**
- **List of tracks:** Select the e-Roadbook that you want to reach and press 'Navigate' button.
- **Map window:** Find the e-Roadbook that you want to reach, open the 'Pin' mode and press 'Navigate'.

7.5 AMIGOS



'Amigos' ('Main Menu > Amigos') is a location-aware feature developed by TwoNav allowing you to view the current location of your contacts on the map in real time (and viceversa). With 'Amigos' you can interact with friends while using TwoNav application:

- **Add contacts to your list of friends:** Add your friends to your list of contacts using either their e-mail address or mobile phone number.
- **Chat with your contacts**
- **See your contacts on the map:** See the tracks that your friends are currently navigating. Press the title of the track and you will be able to check out the 'Trip review' of the track right up to this moment.
- **Navigate where your friends are:** Find the friend that you want to reach, open its contextual and press 'Navigate' button.
- **Interval of data refreshing automatically:** Movements on map will be more constant as interval refresh is lower.
- **Customize your own profile:** Set your nickname, a short description about yourself, a photo... All this information will be displayed at the list of contacts of users.

In order to disconnect 'Amigos' open the contextual menu on your profile name and press 'Unregister':

- **Unlink this device:** Log out the session on your current device.
- **Delete user account:** Completely eliminate your 'Amigos' account.

7.6 ON-LINE FILES

TwoNav offers you the possibility to download all kinds of free data located on external internet servers (map providers, track servers, Dropbox...). Follow these steps to open and work with on-line elements such as maps/tracks/routes/waypoints:

1. At map window, center the map in the zone where you want to get a list of available elements.



2. Select any of these option depending on what do you want to download:

- **Maps:** 'Main menu > Files > Maps > On-line maps'
- **Tracks:** 'Main menu > Files > Tracks > On-line tracks'
- **Waypoints:** 'Main menu > Files > Waypoints > On-line waypoints'

3. TwoNav will start looking for available content near to that position.

<p> Online Maps</p> <hr/> <p> USA</p> <hr/> <p><input checked="" type="checkbox"/> USA_Topo_USGS.cwms</p> <hr/> <p><input checked="" type="checkbox"/> USA_Ortho_USGS.cwms</p> <hr/> <p><input checked="" type="checkbox"/> USA_Ortho_1m_USGS.cwms</p> <hr/> <p><input checked="" type="checkbox"/> USA_Hybrid_OrthoTopo_USGS.cwms</p> <hr/> <p> Canada</p> <hr/> <p><input checked="" type="checkbox"/> Canada_Toporama.cwms</p> <hr/> <p><input checked="" type="checkbox"/> Canada_Geobase_LandSat7.cwms</p>	<p> EveryTrail</p> <hr/> <p><input checked="" type="checkbox"/> Circuit des Tourbières 12.98 km 354 m</p> <hr/> <p><input checked="" type="checkbox"/> Espace VTT FFC 11.11 km 325 m</p> <hr/> <p> GPSies</p> <hr/> <p><input checked="" type="checkbox"/> Pierres et Légendes 8.55 km 288 m</p> <hr/> <p><input checked="" type="checkbox"/> Chabrières-Guérêt 6.61 km 184 m</p> <hr/> <p> TraceGPS</p> <hr/> <p><input checked="" type="checkbox"/> La Croix de Reillat 6.72 km 164 m</p> <hr/> <p><input checked="" type="checkbox"/> Les loups Chabrières 6.49 km 256 m</p>
---	---

4. In case any element near your position is found, basic information related to this element will be presented in the 2nd line right after the name of the item.

7.7 SHARE YOUR TRACKS

TwoNav offers you the possibility to publish your tracks to internet and share them with your contacts using social networks:

1. Select '*Main menu > Files > Tracks*', open the contextual menu on any track and select '*Share*'.



2. Get registered and fill in the form with the most relevant data of the track.
3. Then you will be able to see the track report of the itinerary and share it on social networks.

8 FULL SETTINGS

8.1 SYSTEM

8.1.1 DEVICE

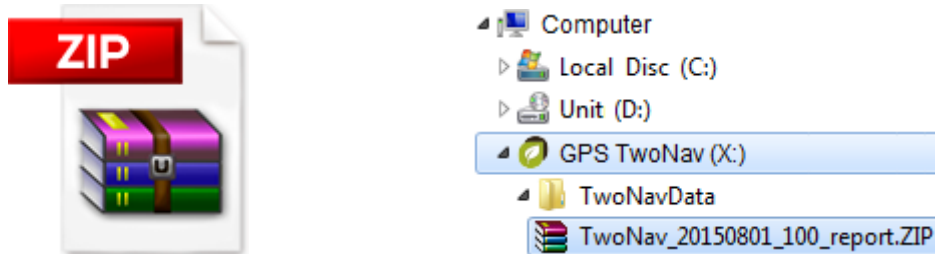
8.1.1.1 DEFAULT CONFIGURATION



IMPORTANT: *Re-establish all the settable parameters to their initial status. All the options that have been manipulated will be modified and set as default.*

8.1.1.2 STATUS REPORT

When 'Status report' is pressed, a *.ZIP file containing technical information of the current status of the application is created at 'TwoNavData/Data'.



Create a 'Status report' in order to help the technical support department to solve any problem of TwoNav application, please contact the on-line technical support department of TwoNav at <http://Support.TwoNav.com>

8.1.1.3 ABOUT

Get to know the software versions running in the device (eBoot/iBoot and operating system information might not be available in all devices).



NOTE: In order to update the TwoNav software of your device, as well as solve any kind of problem with TwoNav' technical team, it is very important to know the exact TwoNav version that you are using in your device.

8.1.1.4 ACTIVATION INFORMATION

Get to know the registration status of TwoNav in the device.

- **Status:** TwoNav application registered/non-registered.

TwoNav registered

- **User's name:** Registered user. If device has internet connection, you can enter here the registration code.

John Smith

- **Device ID:** Exclusive identifier for your device. This identifier is essential to activate TwoNav as well as any map in the device.

X-XXXXXX-XXXXXXX-XXXXXX*XX

8.1.2 LANGUAGE

Set the language of the application. Interface texts and indication voices will use the same language.



English



Español



Français



Italiano



Deutsch



Português



Polski



Català



Euskara



Chinese



Türkçe



Suomi



Hebrew



Galego



Magyar



Nederlands

8.1.3 CREDENTIALS



Dropbox



Amigos

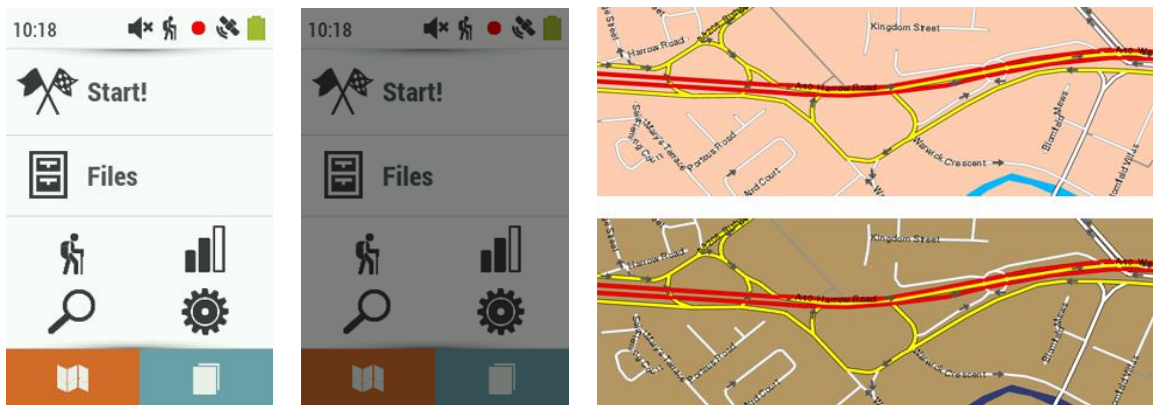
This section centralizes all on-line accounts in which you are logged in:

- **myTwoNav.com:** The customer area of TwoNav allowing you to:
 - Edit customer profile
 - Easily manage and install your products on devices
 - Validate products
 - Manage uploaded tracks to myTwoNav

- **Dropbox:** Accessible from 'Main menu > Files > Internet content'.
- **Amigos:** Accessible from 'Main menu > Amigos'.
- **Others**

8.1.4 SCREEN

8.1.4.1 NIGHT VIEW



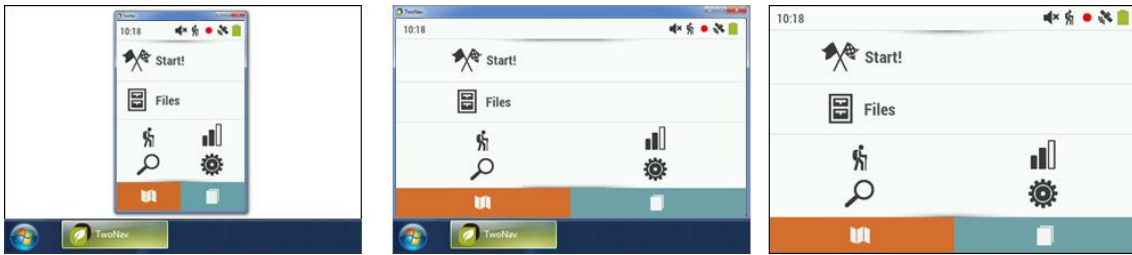
In low light conditions, the colors and brightness of TwoNav may dazzle. This function reduces the brightness of the application and displays an interface with darker tones.

- **At night and tunnels:** TwoNav changes automatically to night mode at night and inside tunnels.
- **At night:** Only at night (not for tunnels).
- **Not automatic:** You will be able to set manually when you wish to have the night mode on.

NOTE: *TwoNav keeps the time updated as long as the device receives a GPS signal. Usually, inside the buildings the signal from satellites is not received unless there is a repeater, so the time and night vision might be affected.*

8.1.4.2 RUN SOFTWARE

Set how the application window must be run.



8.1.5 MAPS CACHE

When an on-line map is opened, downloaded map sections will be kept locally in the device in a temporal folder (cache memory). By doing this you will be able to use that remote map without internet connection. TwoNav application will keep the map area that you have selected in the device memory.



Set the maximum capacity of the folder where map areas in cache will be saved. Depending the device you can also set the folder where map in cache will be saved.

8.1.6 AUDIO



Graduate the audio level of TwoNav application and the volume for each audible element individually.

- **Mute:** Enable/Disable the general audio level of TwoNav application.
- **General:** Manage the general audio level of TwoNav application.
- **Alarm:** Regulate the audio level for alarms and radar warnings.
- **Clicks:** Regulate the audio level for buttons pulses.
- **Voice:** Regulate the audio level for voices indicating manoeuvres.

8.1.7 COORDINATES

These settings will be used when introducing any coordinate into the application as well as creating any element (waypoints/routes/tracks):

- **Type of coordinates:** UTM, Latitude/Longitude, BGN...
- **Degree format:** Configure the order in which the degrees are displayed.

dd.ddddddd dd°mm.mmm' dd°mm'ss.s

- **Datum:** Used to translate the positions of elements (waypoints/tracks/routes) to the exact position on the earth. Datum systems are needed because the earth is an imperfect ellipsoid. Choose the most suitable datum for the map that are working with.

8.1.8 UNITS

Set the type of measurement units to use in TwoNav:

- **Distance:** km ft, m, mi, nm
- **Altitude:** m ft
- **Speed:** km/h kt, min/km, mph
- **Short distance:** m ft, mi, nm
- **Acceleration:** m/s² g, km/h/s
- **Vertical speed:** m/min ft/min, m/h, m/s
- **Area:** m² hect., km²
- **Energy:** Kcal cal, J, KJ, MJ, KWh
- **Depth:** m fm, ft

8.1.9 TIME ZONE

Set the time that will appear by default in the application according to the Universal Time Coordinates (UTC). You may also set the summer time automatically.



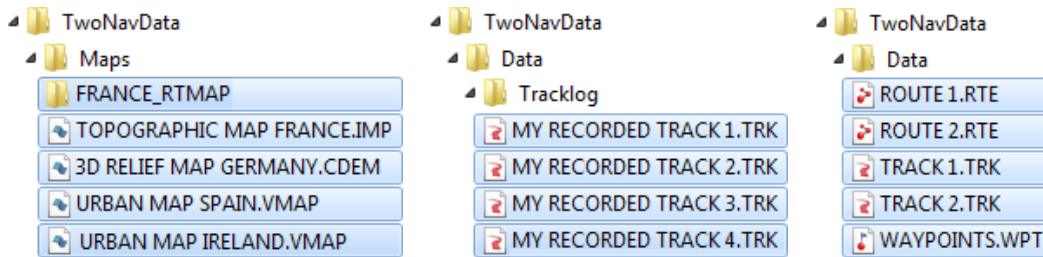
NOTE: TwoNav keeps the time updated as long as the device receives a GPS signal. Usually, inside the buildings the signal from satellites is not received unless there is a repeater, so the time and night vision might be affected.

8.1.10 FOLDERS

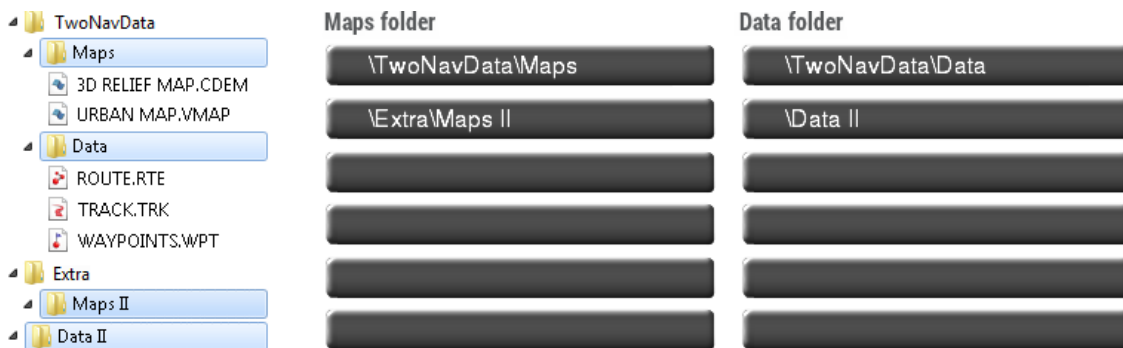
Maps list	Waypoints list	Tracks list	Routes list
FRANCE TOPO	Waypoints.wpt	TRACK 1.trk	ROUTE 1.rte
ITALY ROADS	Waypoint 1	Start	Start
GERMANY 3D RELIEF	Waypoint 2	Arrival	Waypoint 2
SPAIN ROADS	Waypoint 3	TRACK 2.trk	Waypoint 3
IRELAND 3D RELIEF	Waypoint 4	TRACK 3.trk	Arrival
MALTA TOPO	Waypoint 5	TRACK 4.trk	ROUTE 2.rte
MAPS	WAYPOINTS	TRACKS	ROUTES

In order to show your elements (maps/waypoints/routes/tracks) in data lists ('Main menu > Files'), they have to be inside the right folder of the device. If not TwoNav will not detect these elements and they will not be accessible from data lists.

- **Default folder for maps:** *TwoNavData/Maps'*
- **Default folder for your recorded tracks:** *TwoNavData/Data/Tracklog'*
- **Default folder for tracks/waypoints/routes:** *TwoNavData/Data'*



Additionally, if your elements are placed in different folders, you do not need to re-group them into one single folder: you can define the folders where you store each type of data manually. Then, data lists will contain in a single list all data from the different folders that you have set.



8.2 MAP PAGE

8.2.1 TOOL BAR



Tool bar can be configured to fit your specific preferences, customize TwoNav according to your needs by displaying the tools that you really need.

- **Add tools:** By activating the ticked square.
- **Remove tools:** By deactivating the ticked square.
- **Order the tools:** By using 'Up/Down' buttons.

IMPORTANT: Get to know more about tool bar functions in Appendix.

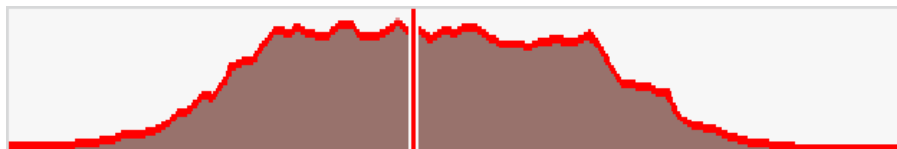
8.2.2 DATA BAR

Data bar can be configured to fit your preferences, data bar has several modes:

- **Data fields bar:** When navigating a route/track, it shows a few relevant data fields.

Spd (km/h)	Alt (m)	DiD (km)
40	67	13

- **Graph bar:** When navigating a route/track, it shows the altitude profile.



Customize TwoNav displaying the data fields that you really need:

- **Add data fields:** By activating the ticked square.
- **Remove data fields:** By deactivating the ticked square.
- **Order the data fields:** By using 'Up/Down' buttons.
- **Add/Remove pages to the default ones:** By using '+' and '-' buttons.




NOTE: You can also change just one field by opening the contextual menu on it (select 'Change this field').




IMPORTANT: Get to know more about data fields in Appendix.

8.2.3 PIN MODE




'Pin' mode features 2 lines containing several data fields, these fields can be defined according to your needs:

- **Main data:** Choose the main data field shown at 'Pin' mode.

330 °
 255,7 km  1488 m 

43°16.301'N 001°18.524'E
 255,7 km  1488 m 

- **Secondary data:** Choose the secondary data fields shown at 'Pin' mode.

330 °
 255,7 km  1488 m 

330 °
 255,7 km  1488 m  016 °  Allée Pasteur 

8.2.4 ZOOM & RE-CENTER

8.2.4.1 AUTOZOOM



DESTINATION



NEXT



ALL LAP



AUTOMATIC

If this option is enabled, TwoNav will calculate the most suitable zoom for the present speed (the higher the speed, the further it will go):

- **No:** Function disabled.
- **Automatic:** Automatic zoom window.

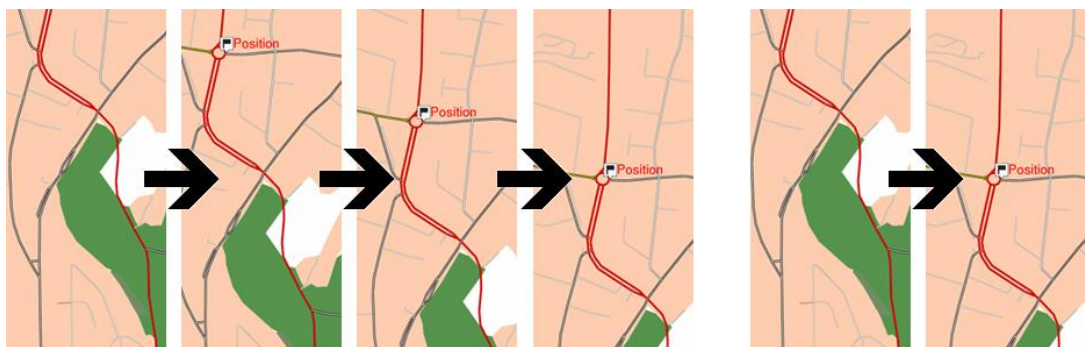
- **See destination:** Zoom window including the current position and the destination.
- **See next:** Zoom window including the current position and the following route/waypoint/...
- **See all lap:** Zoom window including the current position and the present lap or full track.
- **Fixed scale:** Zoom window according to 'Fix scale' value.
- **Map scale:** Zoom window according to the map scale.

If during the navigation 'Force 2D' is enabled, 2D map view will be automatically displayed even other views are currently in use.

8.2.4.2 RE-CENTER

While navigating or editing you may move the map to see other parts of the ground, and so losing your current reference. In these situations press 'Re-center' and Land will move back to your current reference.

- **Re-center automatically:** TwoNav has an automatic re-centring function, so if map is not moved manually, it will be re-centred back to your current position according to the set value.
- **Smooth re-center:** Re-centring can be performed with a smooth movement or instantaneously.

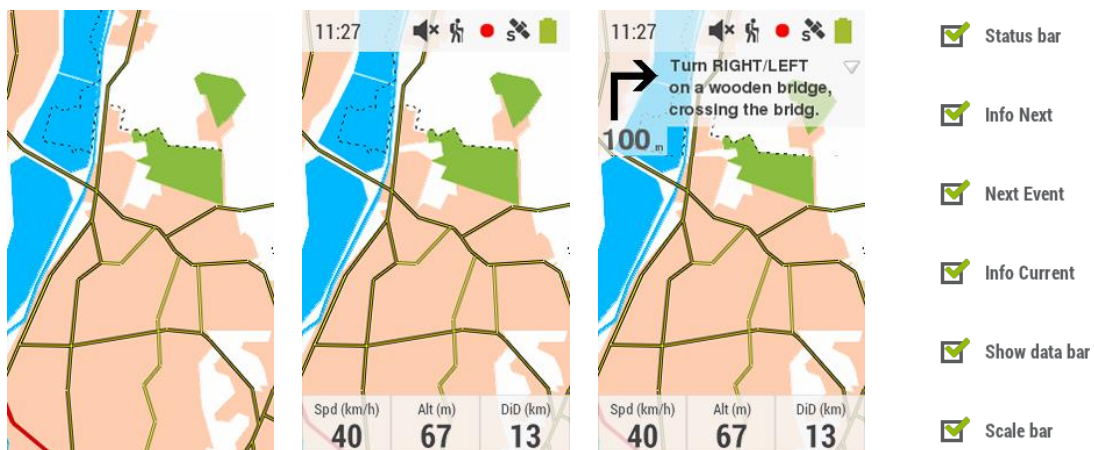


- **Re-center when editing:** Automatic window re-centering while editing or creating new points for routes/tracks. If disabled, map window will not be automatically refreshed, so you will need to move the map window manually.



NOTE: If the function 'Autozoom' is activated, when pressing 'Re-centrer', the zoom suitable for your present speed will also return, losing the variation of the zoom level you may have applied.

8.2.5 INFORMATION PANELS



Show/Hide the functions accessible from the map window.

8.2.6 OBJECTS ON MAP

8.2.6.1 TRACKS

Tracks displayed at map window can be fully customized according to your needs:

- **Draw arrows over the track:** To easily know its direction.



- **Track variable color:** Track can be represented using variable colors representing all along the itinerary the variability of a specific track data field (altitude, speed, slope, time, heart rate frequency...). Degradation colors are related to different levels of the same field.



- **Default thickness:** Default track thickness for new tracks.



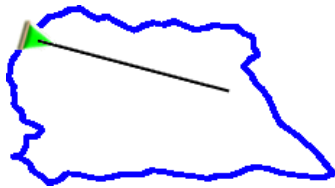
8.2.6.1.1 NAVIGATED TRACK

The track that you are currently navigating is displayed at map window and it can be fully customized according to your needs:

- **Highlight navigated track:** When navigating a track (active track) you might see it highlighted from the rest of the tracks.
- **Double line:** The active track can have a specific double line to easily highlighted from the rest of the tracks.



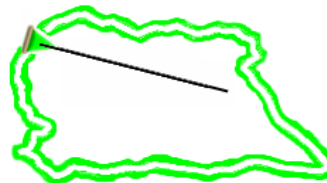
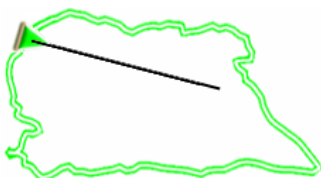
- **Navigated track color:** The active track can have a different color line from the rest of the tracks.



- **Navigated track color:** Color of the double line of the active track.



- **Double line thickness:** Line thickness that highlights the active track from the rest of the tracks.



- **Double line transparency:** Line opacity that highlights the active track from the rest of the tracks.







8.2.6.2 POI (POINTS OF INTEREST) & GEOCACHES

POIs (Points Of Interest) are waypoints grouped into categories of different types of services that may be useful during outdoor navigations (hotels, restaurants, campsites, fuel stations, transports, stores...).

POIs are represented on map window using different icons symbolizing the available services. Most POIs contain a description of the service, coordinates of the waypoint, contact information...

NOTE: Only available when road maps are loaded.











-  Health
-  Restaurants
-  Services
-  Shops
-  Shows
-  Sports
-  Tourism

POIs displayed at map window can be fully customized according to your needs:

- **Active POIs:** Show/Hide POI categories on map window, these POIs are generally provided by some vectorial maps (*.VMAP).
- **Active personal POIs:** Show/Hide your personal POI on map window, these POIs are created by you and must be placed at *TwoNavData/POI* folder.

NOTE: By default, this type of waypoints will not be displayed in waypoints list, but they will be drawn on the map.

Geocaches which have been labelled as *'Found geocache'*, will not appear in the waypoints list nor in the map window. By doing this, there will be no need to see geocaches that were previously found.

<input checked="" type="checkbox"/>  GEOCACHING.gpx	<input checked="" type="checkbox"/>  GEOCACHING.gpx
 La Font de la Cabrassa	 Coin Hotel
 Coin Hotel	 Font Hotel
 Les Salines	
 Font Hotel	

8.2.6.3 LABELS

Labels displayed at map window can be fully customized according to your needs:

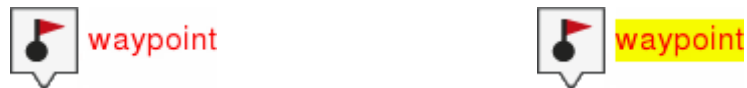
- **Font size for all labels:** Font size for all waypoints.



- **Label color for new waypoints:** Default label color for new waypoints (waypoints already created will keep their original color).



- **Label background for new waypoints:** Background color for waypoints.



- **Background transparent for new waypoints:** Background can be transparent.

- **Waypoint icon position:**



- **Show radius:** Define in which situations waypoint's radius will be displayed.



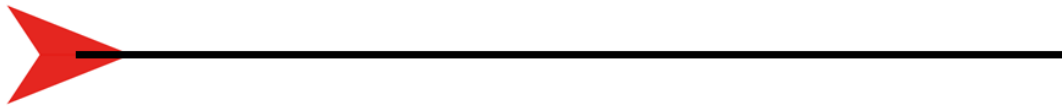
- **Radius color:** Default radius color for waypoints that display their radius.



- **Radius thickness:** Default radius thickness for waypoints that display their radius.



8.2.7 POINTER



Icon displayed at map window can be fully customized according to your needs:

- **Pointer:** Icon that displays your current position on the map.



- **Pointer size:** Size of the icon that displays your current position on the map.



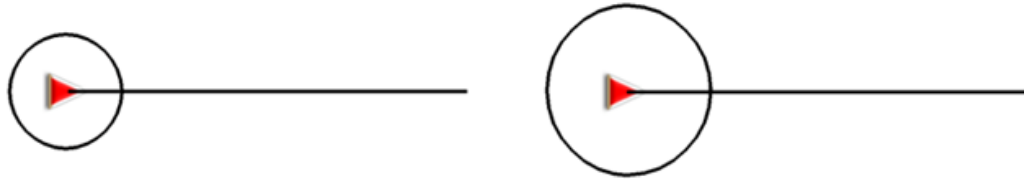
8.2.7.1 EXTRA ELEMENTS

Icon displayed at map window can be fully customized according to your needs:

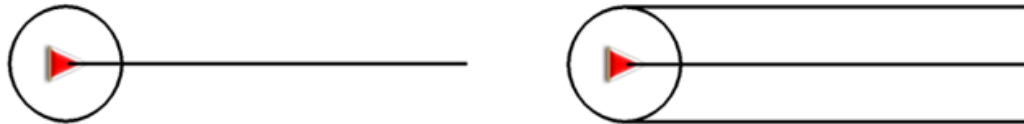
- **Fixed ring and parallels:** A circumference encircling your position will be drawn.



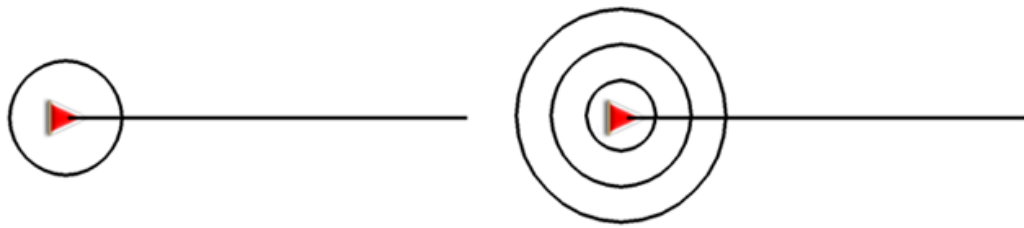
- **Fixed ring radius:** It determines the size of the circumference surrounding your position.



- **Draw prow lines parallels:** Draw parallel lines to the prow line (guideline indicating the direction of your movement).



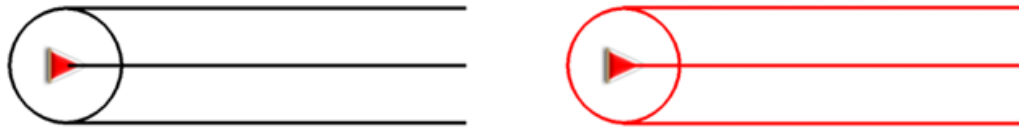
- **Variable ring:** Add more rings around your position. Define the radius of the inner ring and the number of successive rings which will be equidistant from the first inner ring.



- **View turning radius:** When turning, the radius corresponding to the circumference described will be displayed.
- **View direction line:** Set the length of the prow line that will be displayed on the map.



- **Disabled:** No prow line will be displayed.
- **Pixels:** Set the length of the prow line in pixels.
- **Real distance:** Prow line will be displayed on the map at real scale.
- **Expected distance in time:** TwoNav will calculate the estimated distance to be covered in that time at current speed.
- **Infinite:** The length of the prow line will be infinite.
- **Color extra elements:** Default color for extra elements.



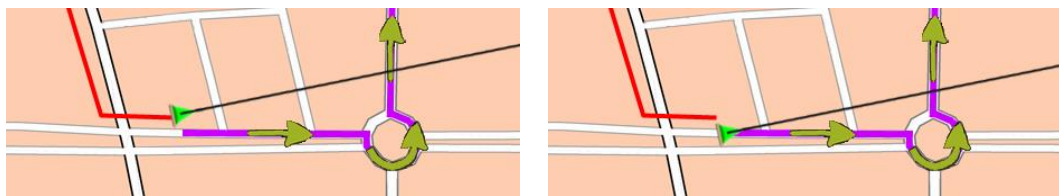
- **Thickness extra elements:** Default thickness for extra elements.



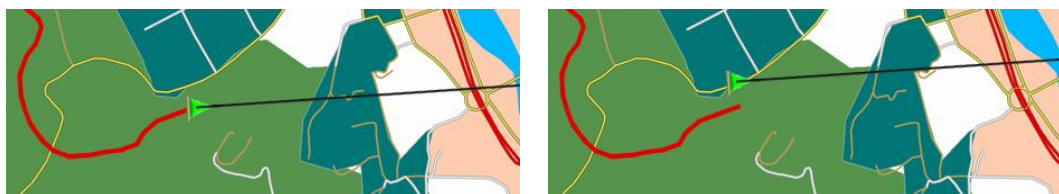
8.2.7.2 SMOOTHED POSITION

Sometimes due to multiple factors the precision of the GPS may not be accurate, this problem can affect the representation of the pointer in the map.

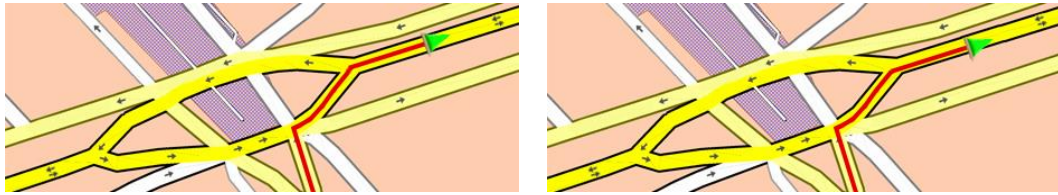
- **Smoother:** TwoNav calculates an interpolation of movement between the positions that the GPS adopts with the aim of showing a gentler movement to allow you a better perception of the speed at which we are driving in relation with the surroundings. By enabling this option, you will be able to calculate the distance and the exact moment to carry out a manoeuvre. This function also makes a prediction of GPS position, correcting delay on the signal caused by the system showing current position almost in real time.
- **Magnet on route:** Pointer will be represented within the streets where you are navigating (only if you are on route following a planned itinerary). Set the distance that will be taken into consideration to reposition the pointer.



- **Magnet on path:** Pointer will be represented within the nearest street/path where you are (in any situation). Set the distance that will be taken into consideration to reposition the pointer.



- **Street direction magnet:** Pointer will be represented within the street direction lane that you are following.



8.2.8 MAP ORIENTATION

Choose between two display modes to show the elements loaded on the map window:

- **Track up:** Orient map towards your course, map will rotate to be adapted to your present course. Perspective in front of you will be displayed on the screen.



- **North up:** Map is not oriented, your position will be marked with the pointer in the centre of the screen and the pointer will rotate to show your present course. The map will not rotate and the north will always be upwards.

NOTE: You can modify this option from the tool bar.

8.2.9 AUTOMAPS



The easiest way to use the most suitable map for each situation is to activate this function:

- **Auto-open maps:** Opens the most suitable map for each situation.

- **Preferred map type:** Select the map type that will be used for routing as top priority.
- **Auto-open on-line maps:** Opens the most suitable internet map for each situation.
- **Auto-open reliefs (*.CDEM):** Opens the most suitable elevation map for each situation (enabled independently from 'Auto-open maps').

NOTE: It is highly recommended to have this option always on, specially on those situations in which you need to make a change in navigation mode.

8.2.10 CDEM RELIEFS

TwoNav may use elevation maps (grids with height information) to assign altitude data on maps/tracks/waypoints/routes and then be able to display then dimensionally.

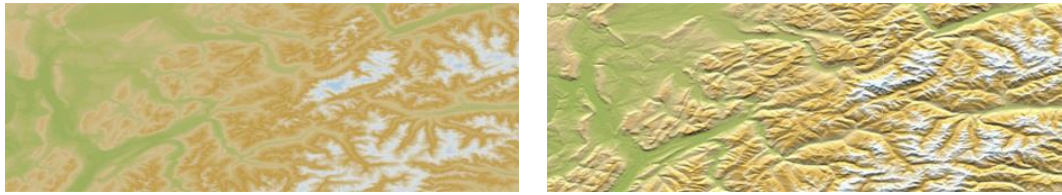
- **Draw relief:** Enable/Disable this function.
- **2D shaded relief:** 2D maps can display relief shadows.



- **Relief colors:** Select between different hypsometric colors to display your maps: high contrast colors, low contrast colors, default palette of colors...



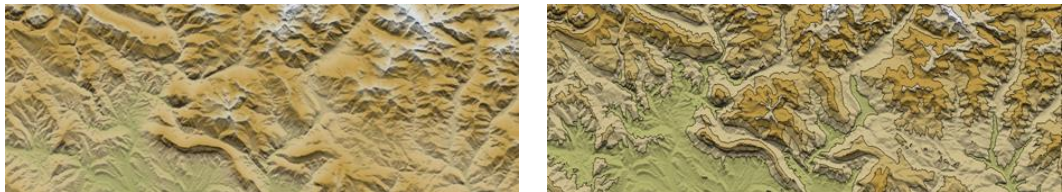
- **Draw landscape with shadow:** This visual option makes the relief drawing more attractive.



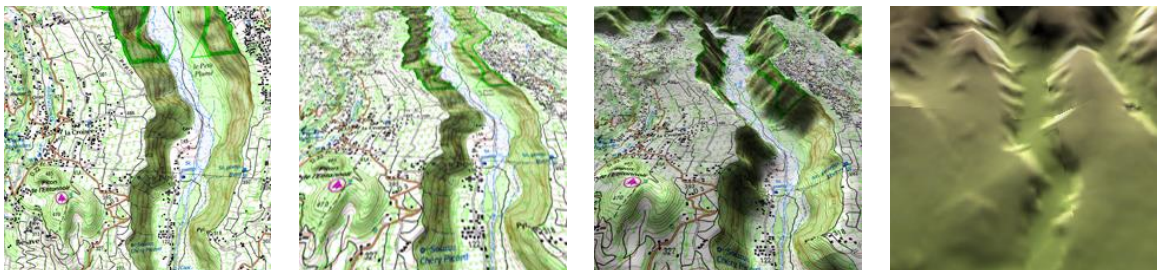
- **Flat color steps:** Instead of using a fading color, just one plain color for each height interval will be used.



- **Draw level lines:** Altitude lines are drawn.



8.2.11 3D



2D FLAT

3D FLAT

3D+ RELIEF

RELIEF MAP

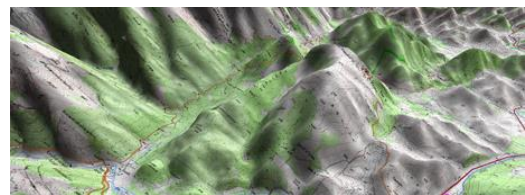
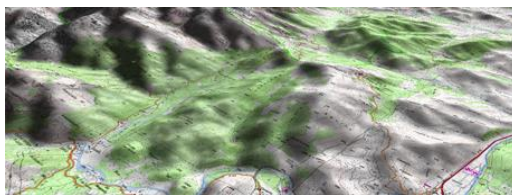
TwoNav offers several visualizing modes so you have the most adequate perspective in each moment.

- **'2D flat' mode:** Zenith plan.
- **'3D flat' mode:** Trimensional flat image with a perspective.
- **'3D+ relief' mode:** Orography of the terrain in real 3D (vectorial maps will not be displayed in 3D+). This mode can only be displayed if you load:
 - 3D relief map (*.CDEM)

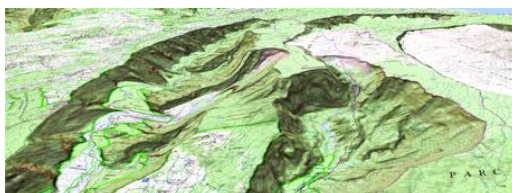
- Raster map (normally *.RMAP or *.ECW)

IMPORTANT: Press '2D > 3D > 3D+' button at the tool bar to switch between viewing modes.

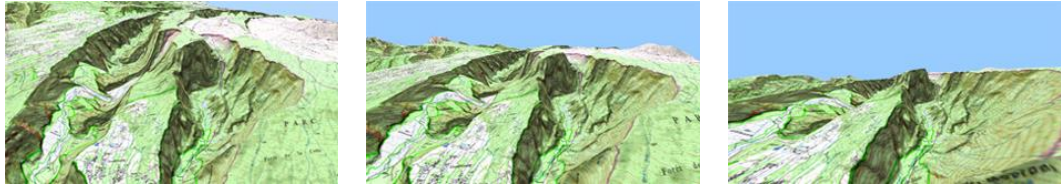
- **'3D' mode:** Choose the sequence for '2D > 3D > 3D+' button:
 - **'2D flat > 3D flat':** 2 positions '2D > 3D'
 - **'2D flat > 3D+ relief' (if raster map):** 2 positions '2D > 3D/3D+' (TwoNav will try to show 3D+. If not possible, 3D flat will be shown)
 - **'2D flat > 3D flat > 3D+ relief':** 3 positions '2D > 3D > 3D+'
- **Map 2D/3D:** Choose the visualizing mode that TwoNav will use to display maps at main window:
 - **'2D flat'**
 - **'3D flat'**
 - **'3D+ relief'**
- **Altitude exaggeration:** Multiplies the altitude of the relief to make a clearer effect in 3D+.



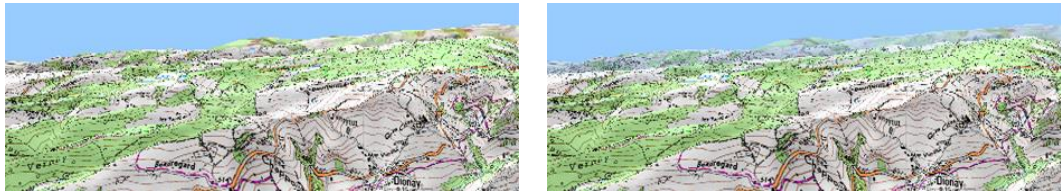
- **Shading:** Relief will be displayed in a clearer and attractive way, as it features shadow simulations enhancing thus the variations of the ground. This option is only effective on the 3D+.



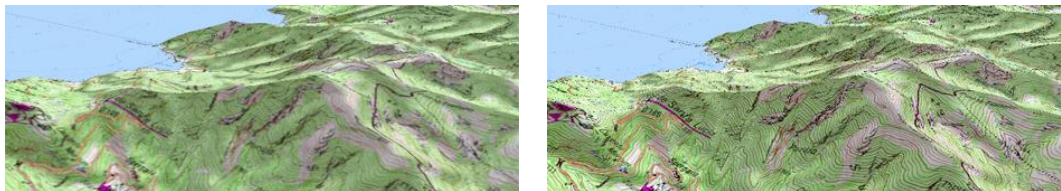
- **Field of vision:** Determines the angle from which the map will be seen. When introducing angles over 60°, it will simulate a camera with wide lenses.



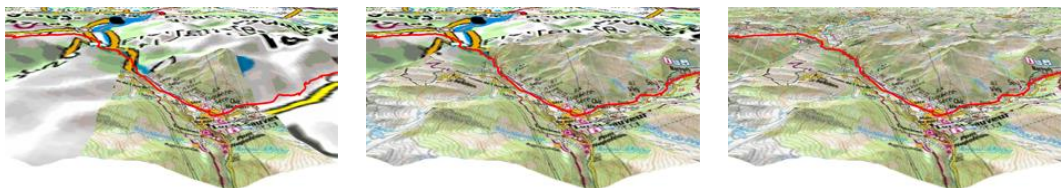
- **Foggy horizon:** The furthest part to the perspective becomes faded, creating a misty effect between the sky and the map that helps to distinguish them more clearly.



- **3D quality:** Customize the depth of the 3D quality from a list of different degrees.



- **Maximum tiles to show:** Set the maximum number of map tiles to display (the higher number of tiles displayed, the slower will load).



- **Sea level:** Fix the current value of the sea level to represent situations where the height is under the sea level.

8.3 DATA PAGES



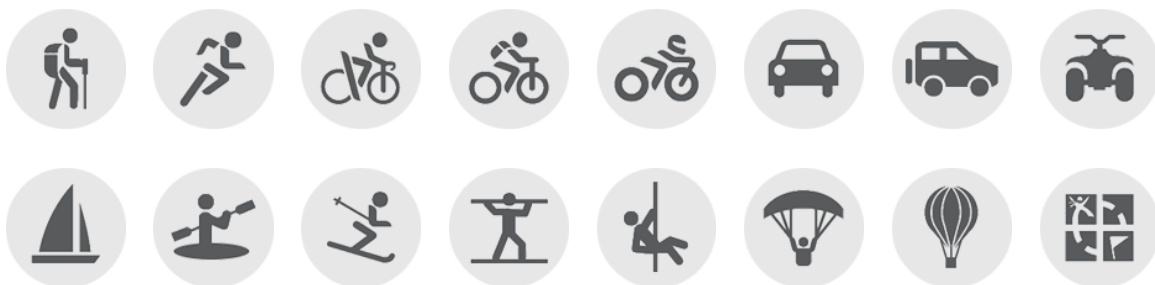
Data pages can be configured to fit your preferences, customize TwoNav displaying the data fields that you really need.

- **Add data fields:** By activating the ticked square.
- **Remove data fields:** By deactivating the ticked square.
- **Order the data fields:** By using 'Up'/'Down' buttons.
- **Add/Remove pages to the default ones:** By using '+' and '-' buttons.

NOTE: You can also change just one field by opening the contextual menu on it (select 'Change this field').

IMPORTANT: Get to know more about data fields in Appendix.

8.4 NAVIGATION



Navigation is one of the key features of TwoNav, depending on the selected activity, TwoNav settings will be automatically configured to fit the activity that you

are about to perform. Additionally, if you want to adjust a specific setting, you can do it independently from the rest of settings:

- **Autopause:** In case you are stopped or your current speed is lower than the one set at '*Minimum moving speed*', TwoNav will understand you are stopped and so, '*Triplog*' will be paused. '*Triplog*' recording will be automatically resumed once your speed is over '*Minimum moving speed*' again.
- **Resume navigation at start:** TwoNav proposes you the same destination which was set last time application was closed.

8.4.1 AUTOROUTE



TwoNav can be adjusted to calculate a route from your current position up to a selected destination. Define your objective and TwoNav will automatically calculate the best itinerary according to your preferences.

- **Autoroute:** Set the type of autoroute that will be generated.
 - **Auto-calculate route:** TwoNav will automatically calculate a route through the streets and guide you all across the route with sound and visual indications for every maneuver.



- **Straight line:** A straight line will be displayed linking your current position with the destination.

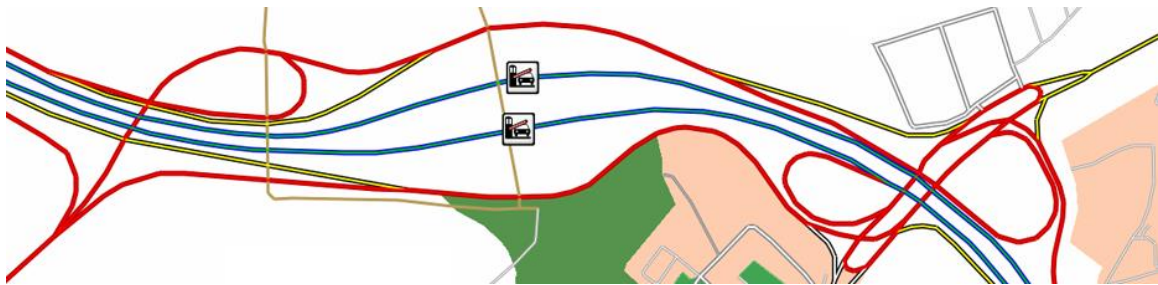


8.4.1.1 FASTEST/SHORTEST

Before you start navigating, it is very important to choose if the planned route that you are about to navigate will be automatically calculated by:

- **The fastest way**
- **The shortest way**

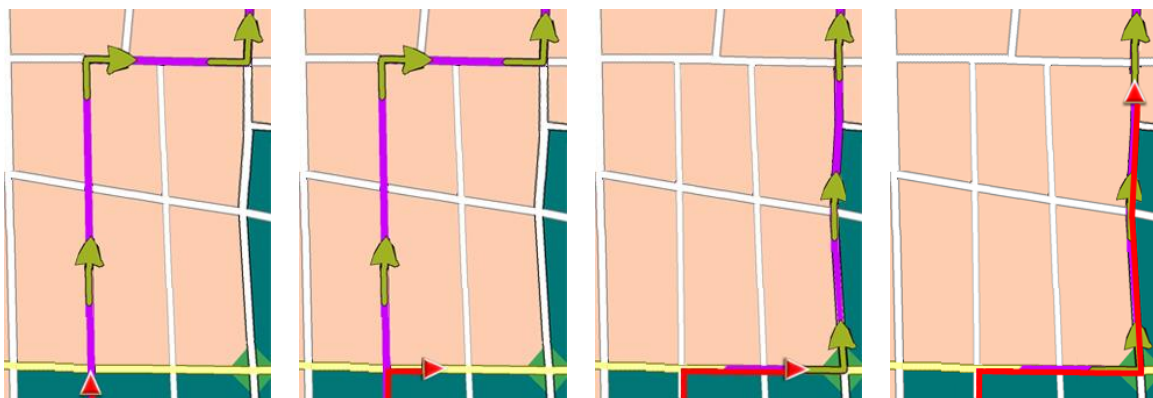
8.4.1.2 RESTRICTIONS



Before you start navigating, it is very important to choose if the planned route that you are about to navigate will be performed only on certain types of roads:

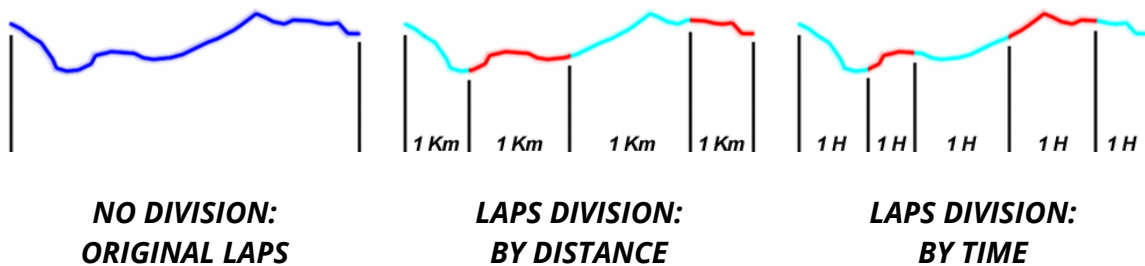
- **Tolls**
- **Highways**
- **Paths**
- **Ferry**

8.4.1.3 RECALCULATE



Before you start navigating your planned route, you must consider that during the navigation you might get away from the planned route due to multiple facts. In this case, TwoNav allows you to set values to recalculate your original route and get on track again.

8.4.2 AUTOLAPS



Fix the training tools of TwoNav according to your own needs:

- **Autolaps:** Detailed analysis of the track by *‘virtually’* dividing it in different laps (portions of the track) either by distance, time or aerial conditions. Analyse the laps of the track from its properties, click on a lap to get more information about it.
- **Interval for lap analysis:** Set the default value to create the division of the track in laps. Once you have reached the default value, a brand new lap will start lasting the same as the interval value.
- **Autolaps on map:** Define if you want to display automatic division of track in laps using a uniform color or alternate colors.
- **Alarm on lap change:** TwoNav can display a visual warning (pop up window) each time you complete a lap.
- **Information on lap change:** If *‘Alarm on lap change’* is enabled, define which data field you want to displayed at the pop up window. This value has been recorded during that specific lap.

8.4.3 NEXT WAYPOINT



When navigating a route, you can select a required event to validate a waypoint and switch to the following one:

- **Radius of the next waypoint:** Enter inside the radius of the next waypoint (only that one).
- **Radius of any next waypoint:** Enter inside the radius of any of the next waypoints (next one and any of the succeeding waypoints).
- **e-Roadbook mode:** When entering the radius of any waypoint, it will be set as next. When going out of it, next one will be activated. When following an e-roadbook it is required to show the information of the current waypoint while in its surroundings. This way, instructions for each point can be followed correctly.
- **Bisector inside next waypoint:** Enter inside the radius of next waypoint and cross the bisector that is formed with the previous and next waypoint.
- **Bisector inside next waypoint or 10% of any waypoint:** Same as the previous, but if any waypoint is quite near (10% of its radius) it will be validated and the next one will be activated.
- **Only buttons bar:** Never change to next waypoint automatically, only manually when *'Next waypoint'* or *'Previous waypoint'* buttons are pressed.

A default radius can be assigned for route waypoints, this value will be taken when this information is not available. If radius for a concrete waypoint of the route is defined, it will be respected. But in case that waypoint does not have a specific radius, the default one will be used instead.

8.4.4 ESTIMATED TIMES



Configure the preferences to automatically calculate the estimated time of arrival to destination:

- **Estimated times calculation:**
 - **Based on track/autoroute:** Calculates the estimated time of arrival taking into consideration the time of the track.
 - **Based on mean speed:** Calculates the estimated time of arrival taking into consideration the speed of the route.

8.4.5 ESTIMATED CALORIES



Configure the preferences to automatically calculate estimations related to energy and effort:

- **Energy calculation method:** According to your preferences.
- **Gender:** Information used to calculate other data.
- **Weight:** Information used to calculate other data.
- **Age:** Information used to calculate other data.

8.4.6 SLOPE



In order to get slope data, TwoNav requires you to set the distance values to calculate the following data:

- **Slope calculation distance:** Used to calculate current 'Slope' data field.
- **Next slope distance:** Used to calculate 'Next slope' data field.

8.5 TRACKLOG



Configure the type of track that TwoNav will generate from your navigation:

- **Start 'Triplog' at power on:** If enabled, TwoNav will automatically record by default all your movements when you start using the application. This function is very useful for users who forget to record the itinerary.

8.5.1 FILE

Set the type of file that will be generated from your navigation:

- **File format:** Set the track format of the resulting file.

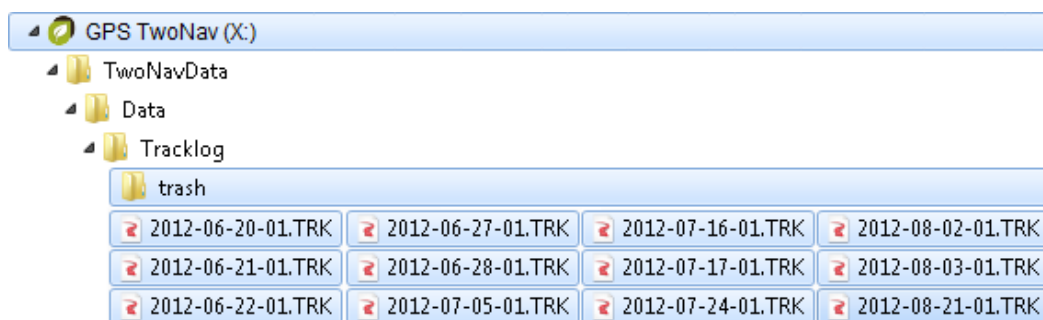


- **Recording interval:**



- **By time:** Set the time to create every new track point.
- **By distance:** Set the distance to create every new track point.

- **Automatic:** Track points will be automatically recorded when changing course and depending on the speed.
- **Weak signal filter:** If GPS signal is not reliable, points are ignored while recording track. This prevents the recording of non reliable data.
- **Save discard 'Tracklog' in trash:** If enabled, when options 'Pause' or 'Finish trip' are pressed, your following movements will be automatically recorded as backup track copy inside 'TwoNavData/Data/Tracklog/Trash' folder. This is a security system in order to avoid losing tracks in case you forget to start 'Triplog' function.

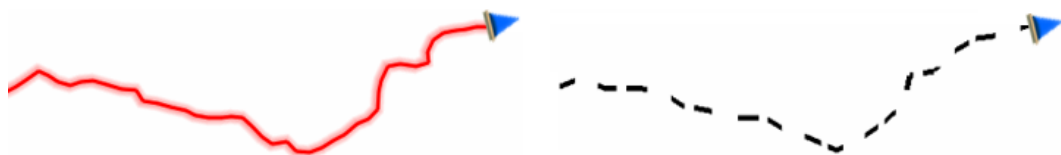


- **Recovery time:** When TwoNav is suddenly switch off, if you turn the device on during the established interval, the previous data is recovered and displayed again.

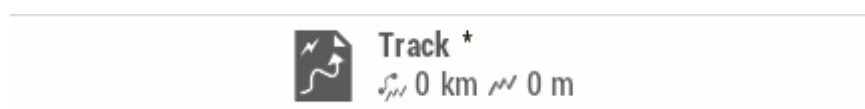
8.5.2 DISPLAY

Configure how do you want to display the track of your navigation:

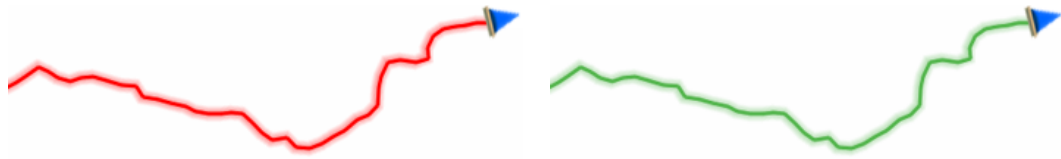
- **Show current 'Tracklog' on map:** If enabled, the track that is being recorded will be shown on the map window.



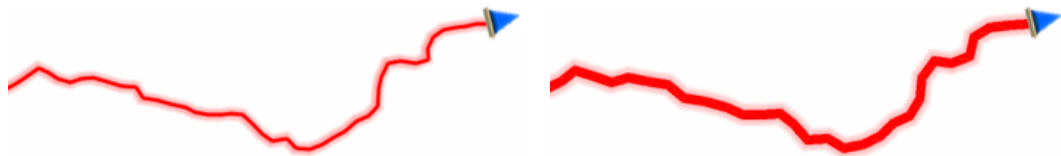
- **Show current 'Tracklog' in list:** If enabled, the track that is being recorded will be listed in track list marked with '*' ('Main menu > Files > Tracks').



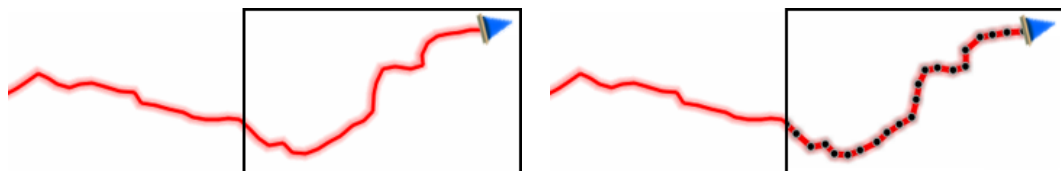
- **Track color:** Set the color for the generated track.



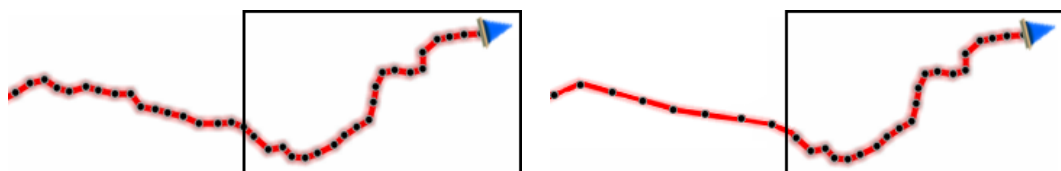
- **Thickness:** Set the thickness for the generated track.



- **Points shown without reduction:** Recorded track is visible on map window, but only the latest track points are shown as they are recorded (with no reduction of points). Set how long this section is.

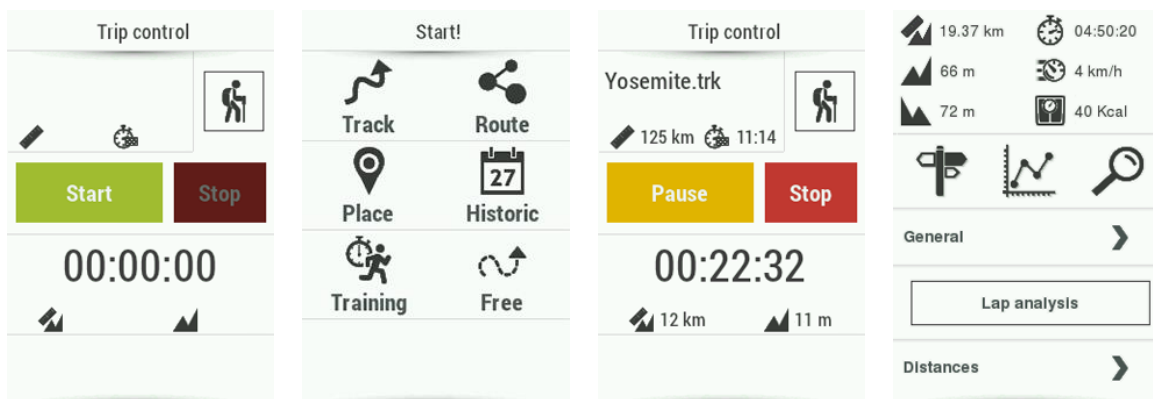


- **Reduction for previous points:** It is highly recommended to make a reduction of the rest of the displayed track as well. Set a reduction to display the previous points of the recorded track (all except the latest points).



IMPORTANT: These reductions does not affect the resulting track file (it will keep all points). These functions only concern the track being displayed on screen in order to save memory.

8.5.3 SYNCHRONIZATION WITH NAVIGATION



TwoNav synchronizes at the same time the recorded track, the recorded data fields and navigation (destination) to simplify the general use of the application, but in some cases, you may prefer that some synchronization points are disabled. Define how *'Triplog'* must be run according to your preferences:

- **Select navigation when start recording *'Triplog'*:** When *'Triplog > Start!'* is pressed, destination can be chosen from several options.
- **Force recording after navigation selection:** When a new navigation is started, the recording of the track is also started (*'Triplog'*).
- **Stop navigation when stop recording *'Triplog'*:** When the recording of the *'Triplog'* is stopped, the current navigation is also stopped.
- **Show *'Trip review'* when stop recording *'Triplog'*:** *'Trip review'* (properties of the recorded track) is not shown after the current *'Triplog'* is stopped.
- **Reset *'Triplog'* recording when changing navigation:** When a new navigation is started, the recording of a new track is also started (*'Triplog'*).

8.6 ALARMS

8.6.1 STANDARD DATA FIELDS

During your navigation, TwoNav may alert you when exceeding certain limits defined by you.

Alarms for data fields can be fixed according to your preferences, all you have to do is set a maximum or/and a minimum value for each field. In case you do not fix any value, the alarm will be deactivated with no effects during the navigation.



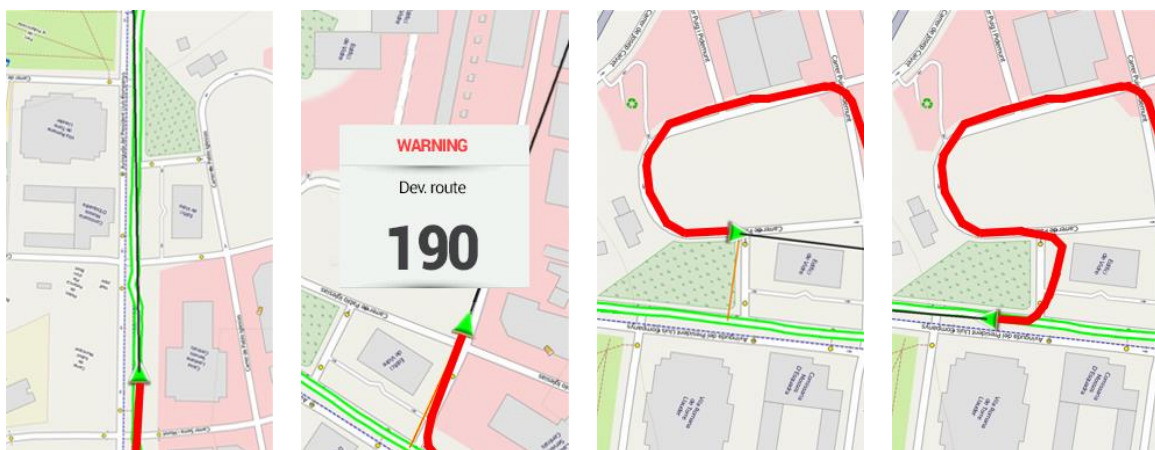
Alarm warnings will be automatically displayed during the navigation in a pop up window according to the preferences that you previously set on data fields.

- **Alarm warning in red:** If you are exceeding the maximum value.
- **Alarm warning in blue:** If you do not reach the minimum value.

Fix also a repetition interval for each alarm. In order to make the pop up window disappear, do is a simple click on any part of the screen outside the warning window.

Configure additional settings of the pop up window from *'Main menu > Settings > Full settings > Advanced'*.

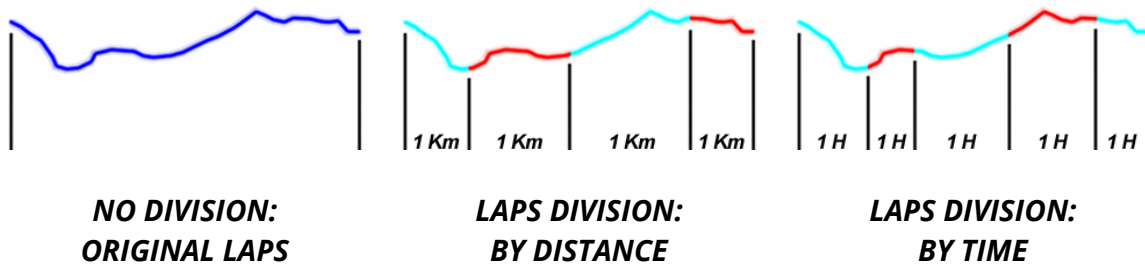
8.6.2 DEVIATION FROM COURSE



During your navigation, TwoNav may alert you when exceeding certain limits defined by you.

When you are getting away from the original track you can set an alarm to warn you: activate *'Deviation from route'* and set a maximum or/and minimum deviation distance. Fix also a warning sound and a repetition interval.

8.6.3 LAP CHANGE



During your navigation, TwoNav may alert you when getting close or reaching certain points.

TwoNav can display audio and visual pop up alarms at every lap change (every kilometer, every hour... or according to your needs). Laps are equal divisions of the track split based on a default interval set by you.

IMPORTANT: Lap alarms during your navigation will only work if automatic laps are enabled.

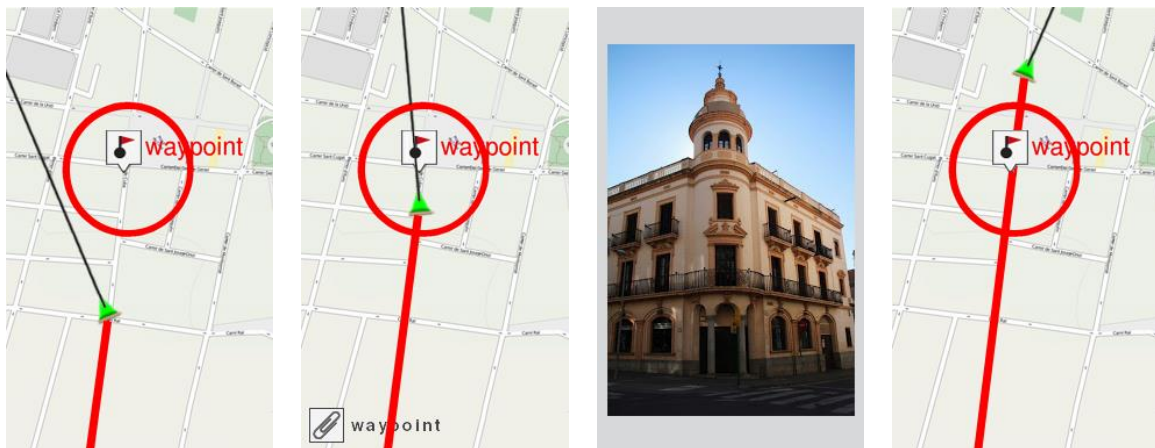


During your trip you will get a periodic report about your performance with relevant information (pace, mean speed, climb, descent...). The division of the track in equal laps is very useful to analyse all kinds of information and achieve a better performance lap after lap (mainly designed for training purposes):

- **Autolaps:** Detailed analysis of the track by *'virtually'* dividing it in different laps (portions of the track) either by distance, time or aerial conditions. Analyse the laps of the track from its proprieties, click on a lap to get more information about it.
- **Interval for lap analysis:** Set the default value to create the division of the track in laps. Once you have reached the default value, a brand new lap will start lasting the same as the interval value.
- **Autolaps on map:** Define if you want to display automatic division of track in laps using a uniform color or alternate colors.
- **Alarm on lap change:** TwoNav can display a visual warning (pop up window) each time you complete a lap.
- **Information on lap change:** If *'Alarm on lap change'* is enabled, define which data field you want to displayed at the pop up window. This value has been recorded during that specific lap.

NOTE: You can also start a brand new lap at any moment pressing *'Change lap'* at the tool bar.

8.6.4 WAYPOINTS



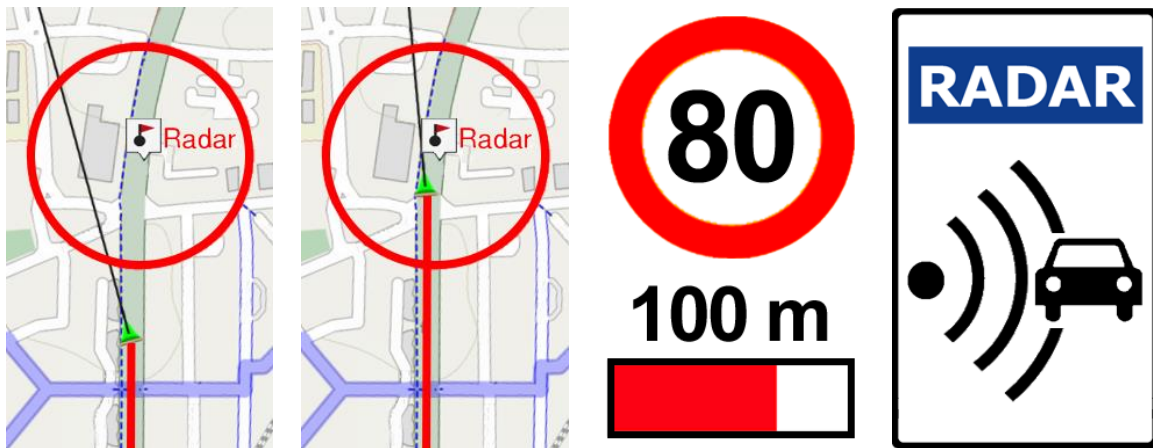
During your navigation, TwoNav may alert you when getting close or reaching certain points.

Set an alarm to warn you when you are about to enter to any waypoint.

- **Default radius for waypoints:** Waypoint alarm will be displayed when you are entering into the radius of any waypoint. Set that radius according to your preferences.
- **Audible alarm at waypoints:** Fix also a warning sound.
- **Start screen at waypoints:** The screen of your device will be turned on when entering into the radius of any waypoint.
- **Auto-play associated images/sounds/text/videos:** Associated files can be automatically displayed when you are entering into the radius of any waypoint.

IMPORTANT: You may also be alerted by the Points Of Interest (POIs) that you store at 'TwoNavData/POI'. If you want to be alerted when reaching one of these POIs, each one of them will have to be associated to a image/sound/text/video file.

8.6.5 SPEEDCAMS



During your navigation, TwoNav may alert you when getting close or reaching certain points.

TwoNav will consider files at 'TwoNavData/Radars' folder as speedcams. So when you are getting close to any traffic speedcam you can set an alarm to warn you (an updated file with current speedcams is required).

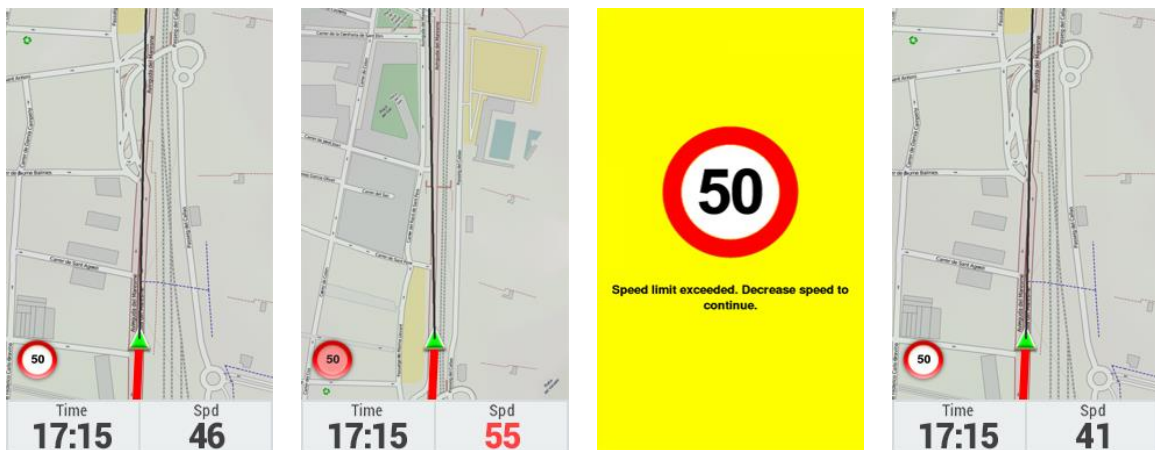
- **Speedcam camera alarm:** Enable/Disable this function.
- **Speed camera alarm distance:** Set the minimum distance to warn you.

- **Show speedcams on the map:** Show/Hide speedcams on map window.
- **Speed to alarm about radars:** Set speed limitation to warn you about near radars.
- **Update speedcams:** The latest speedcams will be automatically updated in your device.



IMPORTANT: Update of radar files can be easily done from Land software (Windows/Mac), more information at <http://www.TwoNav.com>

8.6.6 SPEED LIMIT



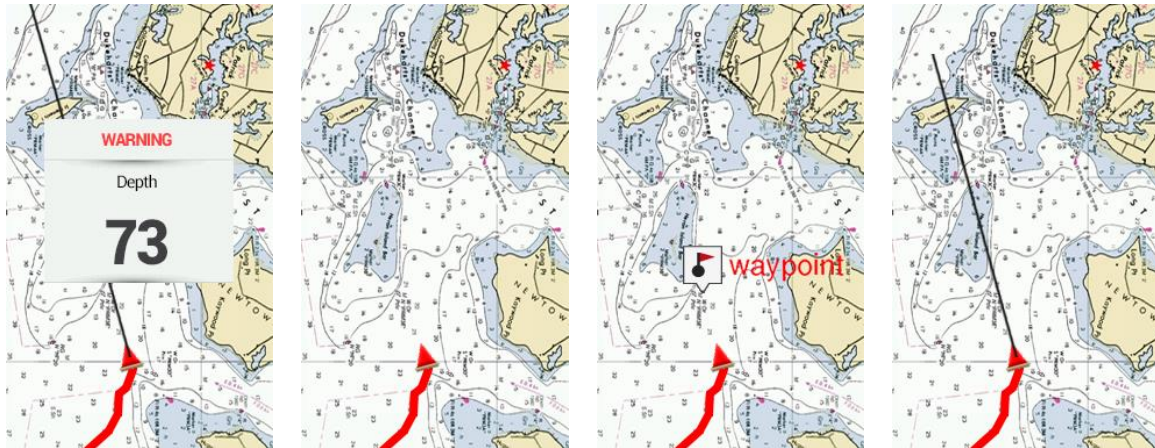
During your navigation, TwoNav may alert you when exceeding certain limits defined by you.

Set an alarm to warn you when reaching certain speed.

- **Set speed limit:** Speed limit of each particular road will be considered by default, but you can set a fix speed limit to warn you disregards the limit of each road.
- **Speed alarm:** When driving over the established speed limit a warning display will be shown. Choose among different alarm displays.

- **Speed to block interface:** User interface will be blocked when exceeding this value. You will not be able to manipulate the application. Configure this function according to laws of each country.

8.6.7 DEPTH



DEPTH

CURRENT

NEXT WPT

PROW LINE

During your navigation, TwoNav may alert you when exceeding certain limits defined by you.

Before you enable/disable depth alarm, you must set the default value for maximum draft (*'Draft': Only for 'Boat', depth to which a vessel is immersed*).

- **Current**
- **Next waypoint**
- **Prow line**

8.7 AUTONOMY

Maximize the autonomy of your device while running TwoNav:

- **Battery level**



- **Do not shutdown if plugged:** If enabled, screen shutdown time is not applied, leaving the device with the screen on during all the trip.
- **Connection interval:** Improve the autonomy of the device by setting the connection interval of the GPS. If connection is intermitent, GPS will be disconnected during intervals, track will be recorded but position will not be detected until GPS connection is established again.
 - **Continuous connection**
 - **Intermitent connection**
- **Disconnect GPS when stop:** TwoNav will detect a stop in your itinerary and will automatically disconnect the device. Remember to reconnect the GPS when you resume your itineray.
- **Connect GPS at start:** GPS function will automatically turned on when TwoNav application is started.

8.8 COMMUNICATIONS

8.8.1 GPS

Settings to easily connect your TwoNav application to the GPS receiver:

- **Auto-Search GPS:** Detect your GPS receiver automatically.
- **Connect GPS at start:** GPS connection can be established by default when device is started.
- **Communications port:** Set the port of the GPS receiver-Computer connection.
- **Protocol:** Set the protocol used by GPS.

NOTE: If you do not know the protocol, set 'Auto-Detect'. TwoNav will identify the original protocol of the GPS (excepting: Top Navigator and Brauniger Comp/IQ).

- **Speed:** Set the data transfer speed.

8.9 USER INFORMATION

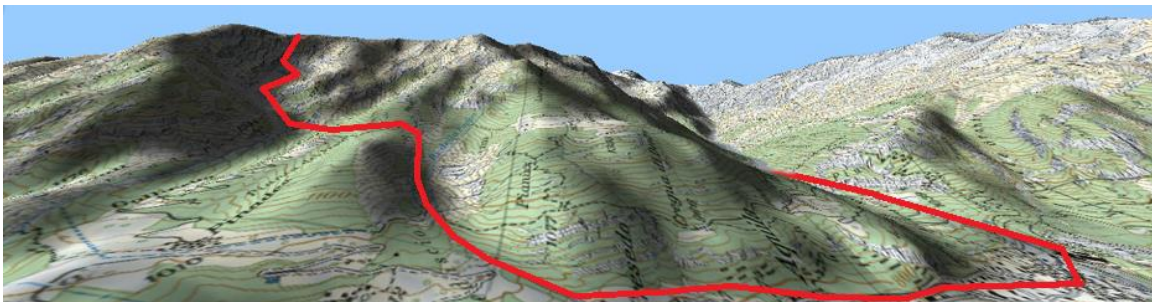


Configure the preferences to automatically calculate estimations related to energy and effort:

- **Energy calculation method:** According to your preferences.
- **Gender/Weight/Age:** Information used to calculate other data.

8.10 CALIBRATION

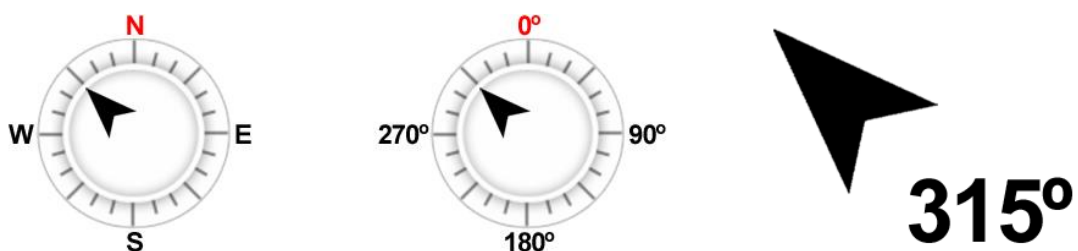
8.10.1 ALTITUDE (BAROMETER)



TwoNav offers you different ways to determine the altitude value you are taking during your navigations:

- **GPS:** Altitude data from the GPS will be used.
- **CDEM (Altitude map):** Current altitude of the 3D relief map (3D relief map must be loaded).

8.10.2 BEARING (COMPASS)



Bearing data determines the orientation of the map when the function *'Orient map > Track up'* is enabled. TwoNav offers you different ways to determine the bearing you are taking during your navigations:

- **GPS:** The latest positions received are used to calculate the bearing of your current movements. As soon as you stop, this reference will not be reliable because there will be no reliable movements to calculate the bearing.
- **Compass:** Data recorded from the compass will be used in order to determine the orientation of the device.
- **Automatic (recommended):**
 - **Driving slowly:** Data recorded from the compass will be used.
 - **Driving fast:** Data recorded from the GPS position will be used.







8.11 ADVANCED





'Advanced' enables extra functions that are not frequently used and could add unnecessary complexity to the application system:





- **Keyboard:** Set the layout of the application keyboard.



- **Information in waypoints/tracks list:** Display more information for listed elements. Extra information will be presented in a 2nd line right after the name of the item. Select the data fields that you want to display.

 **Track**  27-09-2001  8,5 km  779 m  17 Kcal  17:10

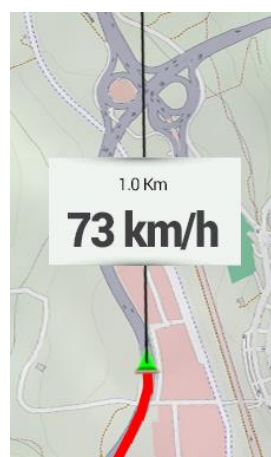
 **Start**
 18 km  0 km  09:09:21

 **Arrival**
 15 km  8,5 km  13:58:20

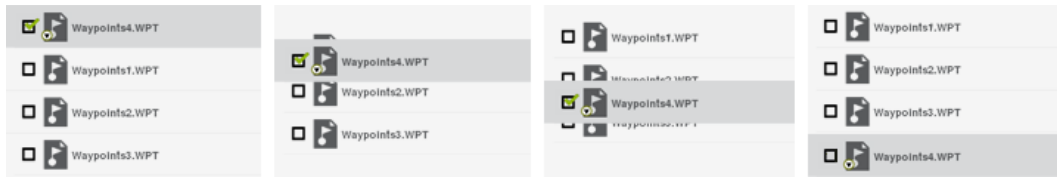
- **Active waypoints mode:** Set working mode for Active Waypoints Files:
 - **Basic:** Fixed Active Waypoint File + autoload it at start.
 - **Advanced:** First waypoint opened will be the active and it will not be autoloading at start.
- **Click on Next Event:** Set the default destination when pressing 'Next Event' function.



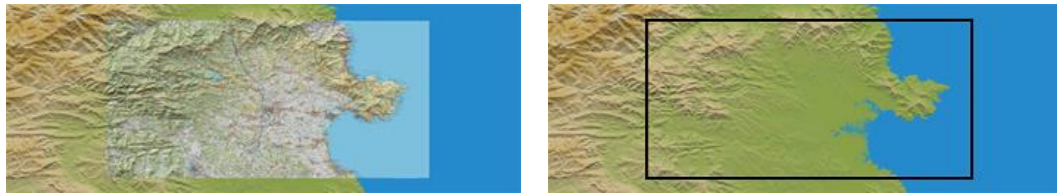
- **Reload data when restarting:** TwoNav loads you the same data which was already opened last time application was closed.
- **Pop up for alarms:** Fix the duration of the pop up window alarm.



- **Animated data tree:** When managing elements of any list, TwoNav displays an animation effect to easily see in which elements are you working on.



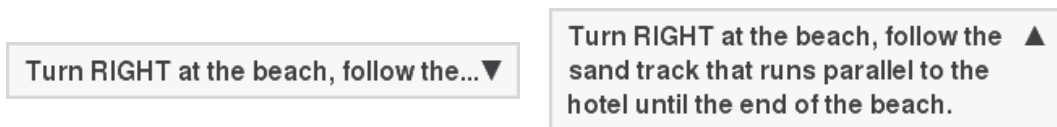
- **Draw map corners:** TwoNav draws on the map window the frames for all loaded maps.



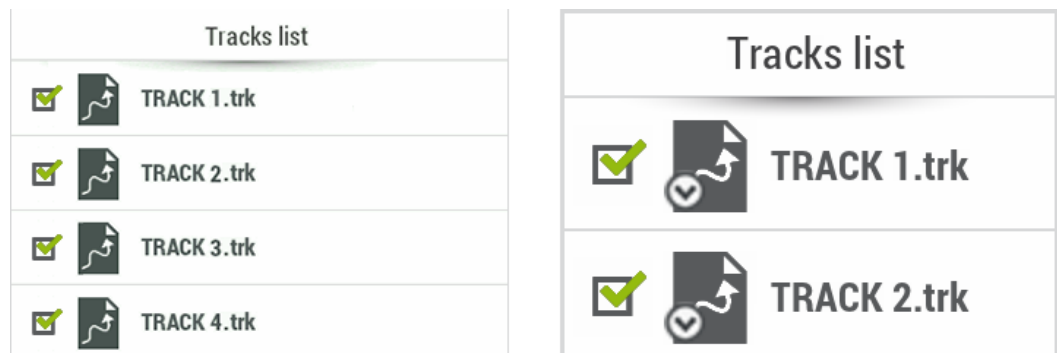
- **Background color:** Set the background color of the main window according to your preferences.



- **Lines in Info Next:** Enter how many lines will be displayed in 'Info Next' function.



- **Interface scale:** Set the scale of the application interface.

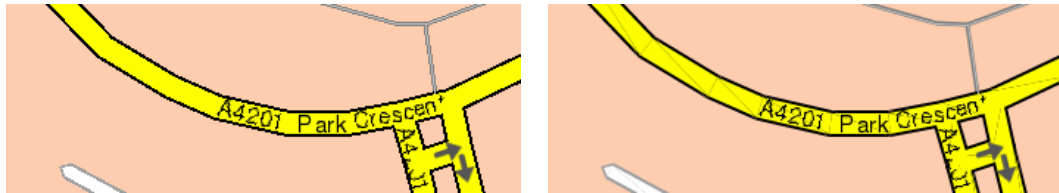


- **Permanent zoom click**

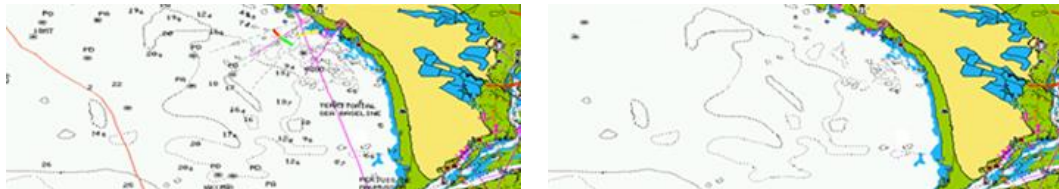
- **Lane information (only on-road navigation):** In roads with several lanes, TwoNav will inform you about which is the correct lane to take.



- **Anti-aliasing:** Draw smoother lines in vectorial maps (*.VMAP).



- **Seabed areas:** If enabled, only depth contours are displayed.



- **Minimum accumulated altitude:** Fixes the minimum altitude to be considered increase of altitude. Altitudes under this value will not be considered increase.

	<u>Current altitude:</u>	→	<u>Increase considered:</u>
<u>Minimum accumulated altitude:</u>	4.7 m		0 m
5 m	<u>Current altitude:</u>	→	<u>Increase considered:</u>
	5.2 m		5.2 m

- **Minimum moving speed:** Set the minimum speed value to consider movement. Speeds under this value will not be considered movement. This value is set by you.

	<u>Current speed:</u>	→	<u>Increase considered:</u>
<u>Minimum moving speed:</u>	0.5 km/h		0 km/h
0.8 km/h	<u>Current speed:</u>	→	<u>Increase considered:</u>
	1.4 km/h		1.4 km/h

- **Screenshot creates waypoint:** A waypoint with an associated image is created each time a screenshot is made. Picture is saved at *'TwoNavData/Data'*.



- **Animation pointer:** Icon that displays your current position on the map when simulating any itinerary.



- **GOTO arrow tangent at:** GOTO arrow displays direction of the following section of the track. Enter here the distance to calculate tangent to provide the direction.
- **Exit waypoint after:** If a track/route contains waypoints, navigation will switch to next waypoint when leaving the current one. Enter here the parameter which determines how far from the waypoint you have to go to exit it.



- **Objective reached at:** Minimum distance to consider that you have reached your objective.

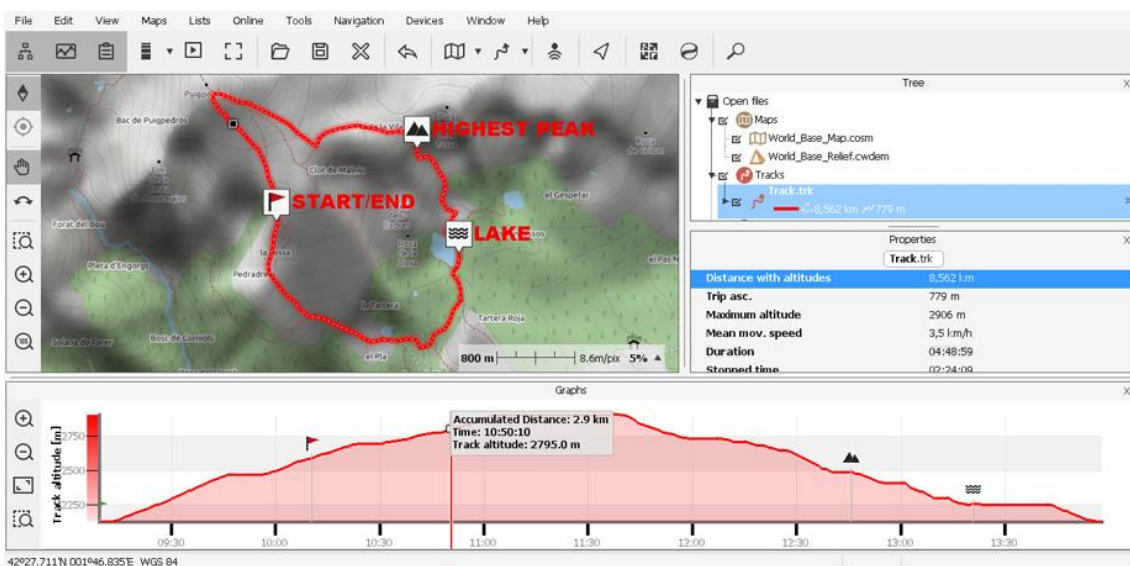


9 MANAGEMENT FROM LAND



Land is the perfect software to prepare and analyse all your outdoor activities (Windows/Mac platforms). With Land you will be able to analyse your trips and manage all data recorded by TwoNav comfortably from home.

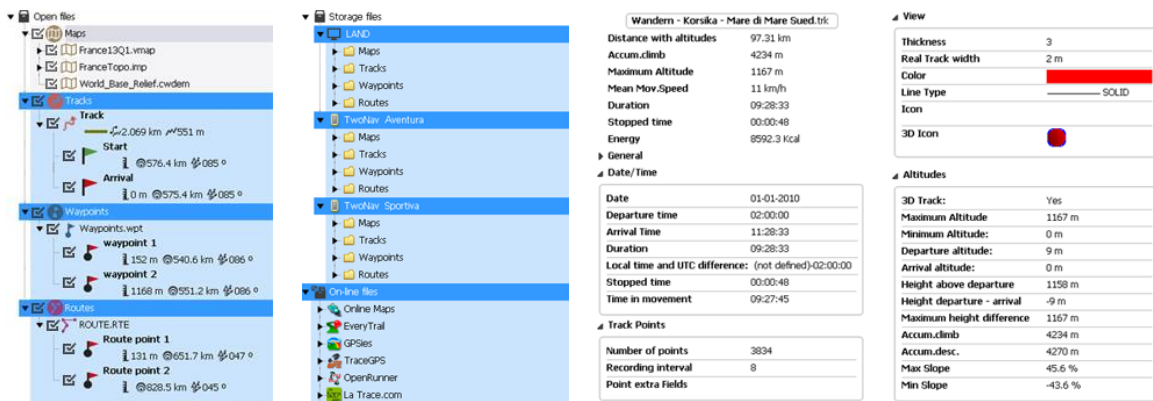
You can get the latest version of Land from <http://www.TwoNav.com> (learn more about Land by downloading the full manual).



After installing it, all you have to do is connect your TwoNav device to the computer (Windows/Mac). Then Land software will automatically detect the device and display it at 'Storage files' branch in the data tree.

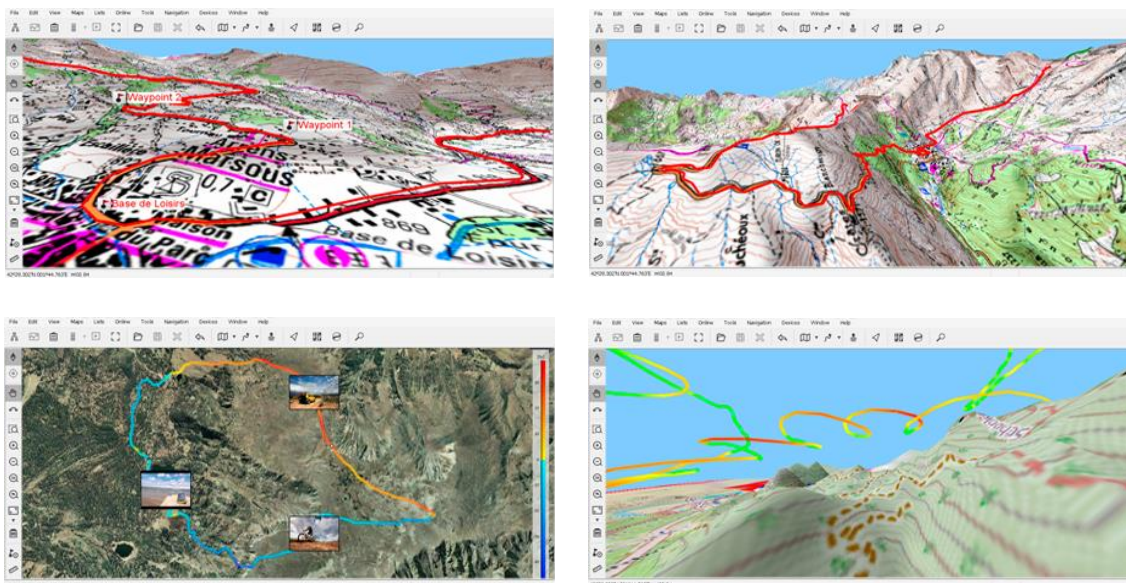
Under the name of the device you can view its content classified by type of item (maps/waypoints/routes/tracks).

9.1 ANALYSE THE RECORDED DATA

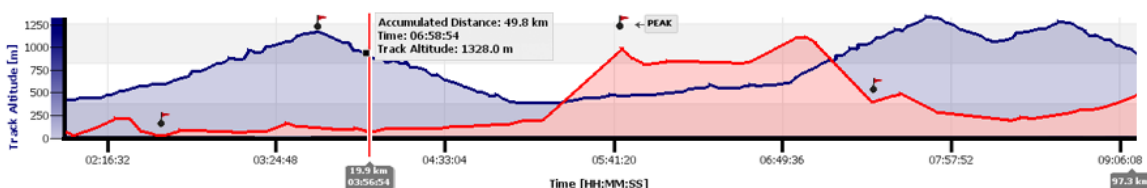


Land is based on a user-friendly interface, specially designed to manage the application easily: open a file from a TwoNav device is as easy as do a double click on its name at the tree data.

NOTE: Remember that opened file are still stored in the memory of the device. If you want to save them on your computer, select 'Save'.



Once opened, the file will appear in the branch 'Open files' at the data tree. Then, you will be able to start working with it: place it on the map window, analyse its properties, compare its data using graph representations...

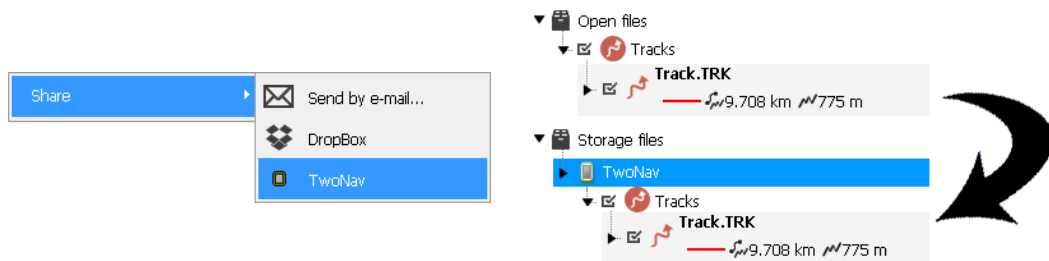


▲ Point no.	● Time	● Coordinates	● Track Altitude [m]	● Accumulated Distance [km]	● Track Speed [km/h]	● Slope [%]
74	02:11:32	41°35'43.6"N 009°14'51.5"E	34	1.921	9.8	0.5
75	02:11:46	41°35'44.4"N 009°14'50.3"E	33	1.959	9.8	0.9
76	02:11:59	41°35'45.4"N 009°14'49.5"E	34	1.995	11	1.8
77	02:12:08	41°35'46.1"N 009°14'48.9"E	34	2.030	10	1.6
78	02:12:20	41°35'46.9"N 009°14'48.0"E	35	2.053	10	1.8
79	02:12:30	41°35'47.6"N 009°14'47.2"E	36	2.081	11	4.5
80	02:12:41	41°35'48.5"N 009°14'46.6"E	38	2.112	10	3.1
81	02:12:56	41°35'49.7"N 009°14'45.9"E	38	2.153	11	3.5

9.2 TRANSFER FILES BETWEEN PC-TWONAV

If a file is protected it will require a license, so when transferring the file, it will ask for register code to activate the license. If activation is not done, you will not be able to use it in your TwoNav device:

- **Via contextual menu:** Open the contextual menu on any element, either in the data tree or on the map window and select 'Send to' and choose the final destination of the file.



- **From the data tree:** You can move files from the data tree by moving the files from its origin to its final destination. For example, if you want to move any element from the internal memory of your TwoNav device to the your computer:

1. Drag the file from TwoNav device's folder to the branch 'Open files'.
2. Then, the element will be automatically placed in the default folder for that kind of files.

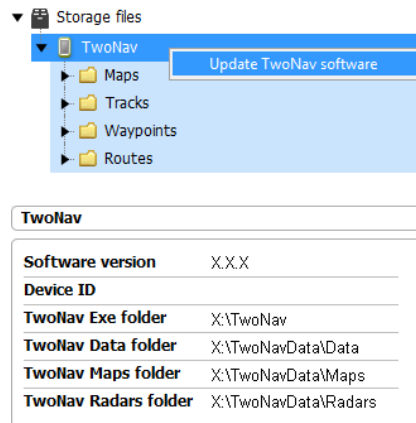
You can also do the opposite process: drag open files (listed at 'Open files' branch of data tree) to TwoNav devices listed at 'Storage files' branch.

NOTE: You can transfer more than one file at a time: hold down 'Control' key while selecting the files.

9.3 UPDATE TO THE LATEST VERSION

Land software can easily update the TwoNav software of your device with just one click:

1. Connect the TwoNav device to the computer.
2. Once your TwoNav device appears listed at the data tree ('Storage files'), open its contextual menu and select 'Update TwoNav software'.



3. Download and installation process will take several minutes.
4. When finished, you can boot the device normally.

10 APPENDIX: DATA FIELDS

Check full list of data fields and their usage. These fields are displayed in the data pages and the data bar, but you can configure which fields to show according to your needs from 'Main menu > Settings > Full settings > Map page > Data bar'.

Distances

- **Deviation from route:** Distance to active route.
- **Distance to TrackAttack:** Distance between your current position and the position of the 'TrackAttack'.
- **Distance to next radar:** Distance to next radar point.
- **Distance to destination:** Distance to destination (last waypoint of the route).
- **Distance to next:** Distance to the next waypoint.

- **Lap odometer:** Distance covered from the beginning of the current lap section up to the current position. Value reseted every time a new lap section is started.
- **Profile odometer:** Distance covered from the beginning of itinerary. Value reseted every time TwoNav is turned off.
- **Route percentage:** Percentage of the route that has been already done.
- **Total odometer:** Accumulated distance of all your trips. Value not automatically reseted every time TwoNav is turned off. (TwoNav can calculate the total distance using different data calculations).
- **Trip odometer:** Distance covered from the beginning of itinerary. Value reseted every time TwoNav is turned off.

Altitudes

- **Altitude at next:** Predicted altitude to next waypoint if current trajectory is maintained.
- **Altitude:** Altitude from the sea level.
- **Altitude difference to destination:** Difference between the altitude of destination and current altitude.
- **Altitude difference to next:** Difference between the altitude of the next waypoint and current altitude.
- **Altitude ground level:** Altitude from the ground level.
- **Ascent to destination:** Ascent till destination is reached.
- **Barometric altitude:** Altitude provided by the barometric altimeter.
- **Current depth:** Current depth value taking as reference the nautical chart.
- **Depth at next:** Depth value at next waypoint
- **Depth at prow line:** Current depth value at prow line.
- **GPS altitude:** Present altitude provided by GPS receives via satellites.

- **Graph:** Representation of the track being covered.
- **Land altitude:** Altitude of the land provided by the 3D relief map (*.CDEM).
- **Lap climb:** Total amount climbed from the beginning of the current lap section up to the current position.
- **Lap descent:** Total amount descended from the beginning of the current lap section up to the current position.
- **Maximum altitude:** Reached during your itinerary.
- **Slope:** Slope of your current movement.
- **Slope at next:** Slope till the distance set at '*Next slope distance*'.
- **Trip ascent:** Total amount climbed from the beginning of itinerary up to the current position.
- **Trip descent:** Total amount descended from the beginning of itinerary up to the current position.

Times

- **Chronometer:** Starts counting when started.
- **Estimated hour at destination:** Estimated time of arrival to destination (last waypoint of the route) at present speed.
- **Estimated hour at next:** Estimated time of arrival to the next waypoint (at present speed).
- **Estimated time to destination:** Estimated time to reach destination (last waypoint of the route) at current speed.
- **Estimated time to destination (cruise):** Estimated time to reach destination (last waypoint of the route) at cruise speed.
- **Estimated time to next:** Estimated time to reach next waypoint at current speed.
- **Estimated time to next (cruise):** Estimated time to reach next waypoint at cruise speed.

- **Lap chronometer:** Time elapsing the current lap section from the beginning of the current lap section up to the current position.
- **Stopped time:** Total amount of time without moving.
- **Sunrise:** Sunrise time.
- **Sunset:** Sunset time.
- **Time:** Current time according to the selected time zone.
- **Time to TrackAttack:** Time difference between you and the *'TrackAttack'*.
- **Time in movement:** Total amount of time moving.
- **Time without package:** Elapsed time since last time GPS signal was received.

Speeds

- **Current pace:** Speed in minute/kilometer.
- **Lap mean speed:** Average of all speeds values from the beginning of the current lap section up to the current position.
- **Lap pace:** Average of all pace values from the beginning of the current lap section up to the current position (speed in minute/kilometer).
- **Maximum speed:** Maximum speed in current itinerary.
- **Mean moving speed:** Average of all speeds values above the minimum speed movement.
- **Mean speed:** Average of all speeds values.
- **Mean moving pace:** Average of all pace values above the minimum speed movement.
- **Mean pace:** Average of all pace values.
- **Moving pace:** Average of all pace values avoiding stopped points.
- **Next radar speed:** Displays maximum speed allowed by the next radar.

- **Normal acceleration:** Perpendicular to movement in circular movements.
- **Partial mean speed:** Average of all speeds values from the beginning of itinerary up to this moment.
- **Speed:** Current speed.
- **Speed limit:** Speed limit established for the current road.
- **Tangential acceleration:** Component of linear acceleration tangent to the path.
- **Velocity made good:** Right direction's velocity component to the following waypoint.
- **Vertical speed:** Descending speed (vertical component of speed value).

Bearings

- **Bearing:** Current course.
- **Bearing to next:** Course towards to the next waypoint.
- **Compass:** Compass representation.
- **GOTO arrow:** Arrow that indicates the course towards to the next waypoint.
- **Magnetic bearing:** Course followed according to the inner device compass.

Effort

- **% HRR:** Heart Rate Reserve.
- **% Maximum heart rate:** Maximum heart rate.
- **Accumulated power:** Total amount power from the beginning of itinerary up to the current position.
- **Cadence:** Current cadence at this moment (based on pedal stroke frequency).
- **Current power:** Current power at this moment (based on pedal stroke frequency).

- **Heart rate zone (% Max.):** Predefined heart rate intensity zones.
- **Heart rate zone (% Max-Rest):** Predefined heart rate intensity zones (Cardiac frequency in reserve).
- **Heart rate:** Current heart rate at this moment.
- **Instantaneous cadence:** Current cadence at this moment (based on power meter data).
- **Instantaneous power:** Current power at this moment (based on power meter data).
- **Left (or combined) pedal smoothness:** How smoothly power is delivered to the left pedal.
- **Left torque effectiveness:** How much of the power delivered to the left pedal is pushing it forward.
- **Maximum power:** Maximum power achieved from the beginning of itinerary.
- **Mean power:** Average of all power values.
- **OCA:** Optimum chainring angle.
- **Pedal power:** Relative power left-right.
- **Powermeter:** Power of the last pedaling.
- **Right pedal smoothness:** How smoothly power is delivered to the right pedal.
- **Right torque effectiveness:** How much of the power delivered to the right pedal is pushing it forward.
- **Total energy:** Total odometer energy.
- **Trip energy:** Partial odometer energy.

GPS

- **Coordinates:** Coordinates of the current position.

- **Differential GPS:** GPS gives differential signal (submetric accuracy).
- **HDOP:** Horizontal Dilution Of Precision (estimated current accuracy of the GPS).
- **PDOP:** Position Dilution Of Precision (estimated current position accuracy of the GPS).
- **Precision:** Error margin of the GPS.
- **Used satellites:** Satellites fixed in current position.
- **VDOP:** Vertical Dilution Of Precision (estimated current vertical accuracy of the GPS).

Flight

- **Altitude ground level:** Altitude from the ground level.
- **L/D goal:** Minimum glide ratio required to reach your goal (going through all intermediate waypoints).
- **L/D instant glide ratio:** Glide ratio dividing horizontal distance by vertical (descending).
- **L/D required:** Minimum glide ratio required to reach next waypoint (distance to waypoint divided by waypoint's altitude over ground level).
- **Land altitude:** Altitude of the land provided by the 3D relief map (*.CDEM).
- **Slope to next waypoint:** Slope from your current position to next waypoint.
- **Slope to destination:** Remaining slope till destination is reached.
- **Vertical speed:** Descending speed (vertical component of speed value).

General

- **Air pressure:** Present atmospheric pressure provided by the barometric altimeter.
- **Battery:** Remaining energy in your device.

- **City:** Current city.
- **Croquis:** Image displaying manoeuvres.
- **Current lap:** Identifies the lap where you are at the present moment.
- **File name:** Name of the current track.
- **Free memory:** Remaining memory in your device.
- **Next waypoint name:** Name of the following waypoint.
- **Next2 waypoint icon:** Icon associated to the waypoint following the next waypoint.
- **Number of points:** Track points saved up to current position.
- **Place name:** Name of the element of your current position.
- **Radar icon:** Displays an icon when entering the radius of a radar.
- **Radius turn:** Radius of the turn that you are taking at the moment.
- **Relative humidity:** Current humidity rate.
- **Signpost:** If available, road indications are displayed.
- **Temperature:** Current temperature.
- **Virtual free memory:** Virtual free memory in your device.

NOTE: *Due to platform restrictions, some functions may only be available in certain TwoNav platforms.*

11 APPENDIX: TOOL BAR

Check full list of tool bar buttons and their usage. These buttons are displayed in tool bar, but you can configure which buttons to show according to your needs from 'Main menu > Settings > Full settings > Map page > Tool bar'.

- **3D mode:** Switch between viewing modes (*2D > 3D > 3D+*).
- **Activate GPS:** Start/Stop GPS connection.
- **Alternate maps:** TwoNav superimposes maps, so that you can display two or more maps at the same time at map window.
- **Close tools:** Button to easily close the tool bar mode.
- **FF to next (⏭):** Jump to next event of the itinerary.
- **FF (⏭):** Accelerate the itinerary. Press it again to apply normal speed.
- **Full screen:** Most of user interface elements will be hidden to get a wider view of the map.
- **Lap:** Creates a new lap of the same track starting in the current position.
- **Less detailed map:** TwoNav will try to load a map of lower resolution than the currently loaded.
- **Man over board:** If some falls into the water, route will be automatically calculated to that point.
- **Mark e-Roadbook point:** Create new e-Roadbook waypoint in current position with default name and icon.
- **Mark waypoint:** Create new waypoint in current position with default name and icon.
- **Mark and edit waypoint:** Create new waypoint in current position and access to its properties, so that you can customize them.
- **More detailed map:** TwoNav will try to load a map of higher resolution than the currently loaded.
- **Mute:** Sound level is totally reduced.
- **Navigate:** Choose the destination that you are about to navigate.
- **New waypoint:** Choose where to create new waypoint and access to its properties, so that you can customize them.

- **Next waypoint:** When navigating, switch to the next waypoint (only visible when navigating a route/track which contains waypoints).
- **Open:** Open any file.
- **Orient map:** Track up/North up.
- **Page:** Access to data pages.
- **Panning/Rotate:** Map movement mode.
- **Pause (||):** Pause the itinerary. Press it again to resume the simulation.
- **Previous waypoint:** When navigating, switch to the previous waypoint (only visible when navigating a route/track which contains waypoints).
- **RW to previous (⏪):** Jump to previous event of the itinerary.
- **RW (⏩):** Accelerate the itinerary in reverse. Press it again to apply normal speed.
- **Screenshot:** A screen picture is automatically taken.
- **Shutdown screen:** When pressed, screen is directly turned off.
- **Start/Stop:** Pause or stop your current navigation.
- **Stop (■):** Stop the itinerary.
- **Synchronize TrackAttack:** Automatically places the *'Virtual coach'* at your current position.
- **Take photo:** A photo picture is automatically taken using the camera of the device.
- **Window zoom:** Draw an area on the map to zoom to it.
- **Zoom 100%:** Zoom will be automatically set displaying map at its maximum resolution.

NOTE: Due to platform restrictions, some functions may only be available in certain TwoNav platforms.
