



Global Navigator

Ultimate map and navigation for iPad/iPhone User Manual 1.0

Global Navigator (GlobalNav) - Navigate you around the world with your iPad/iPhone GPS version. You can download rich resources of offline maps from Internet or create your own using free tool of Mobile Atlas Creator (<http://mobac.dnsalias.org>), then transfer map files into iPad/iPhone using iTunes' file sharing.

By using offline map mode, you will enjoy fast map display and operation, you no longer need to pay for mobile network data of map downloading. Before you travel to a new place, you can just create the offline map within several minutes and copy it to iPad/iPhone, you can also plan the route to save for future use. Never lost again no matter in driving, hiking, biking or finding your parking place.

★★ Catalog ★★

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Features and specs

- Supports more than 30 sources of offline map by using Mobile Atlas Creator.
- Import/export offline maps using iTunes.
- Supports 7 online map sources.
- Route planning, save, load and export.
- Track recording, save, load and export.
- POI management.
- Search locally or globally to locate any place in the world.
- Display engine optimized ensure fast display of route with dozen of thousands of way points.
- Fix location drift by enabling "Mars" mode if you have such issue when using some mandarin maps.
- Quick buttons for fast access to frequent functions.
- Auto-manage map cache to ensure fast map loading when using online maps.
- Support both portrait and landscape screen orientation.
- iPad/iPhone universal application with native user interface.
- iPhone 4 retina supported.

Offline map support:

Supports popular RMaps/BigPlanet SQLite format (a single sqllitedb file) offline maps, create your own map or download from Internet. More than 30 map sources can be choose when you download.

By using offline map creation tool Mobile Atlas Creator, you can plan a route and just download the nearby area to cover the route, or you can download the full coverage of an entire city or country. Map detail level can also be chosen according to you needs.

Use offline maps for fast display and save your money.

Online maps:

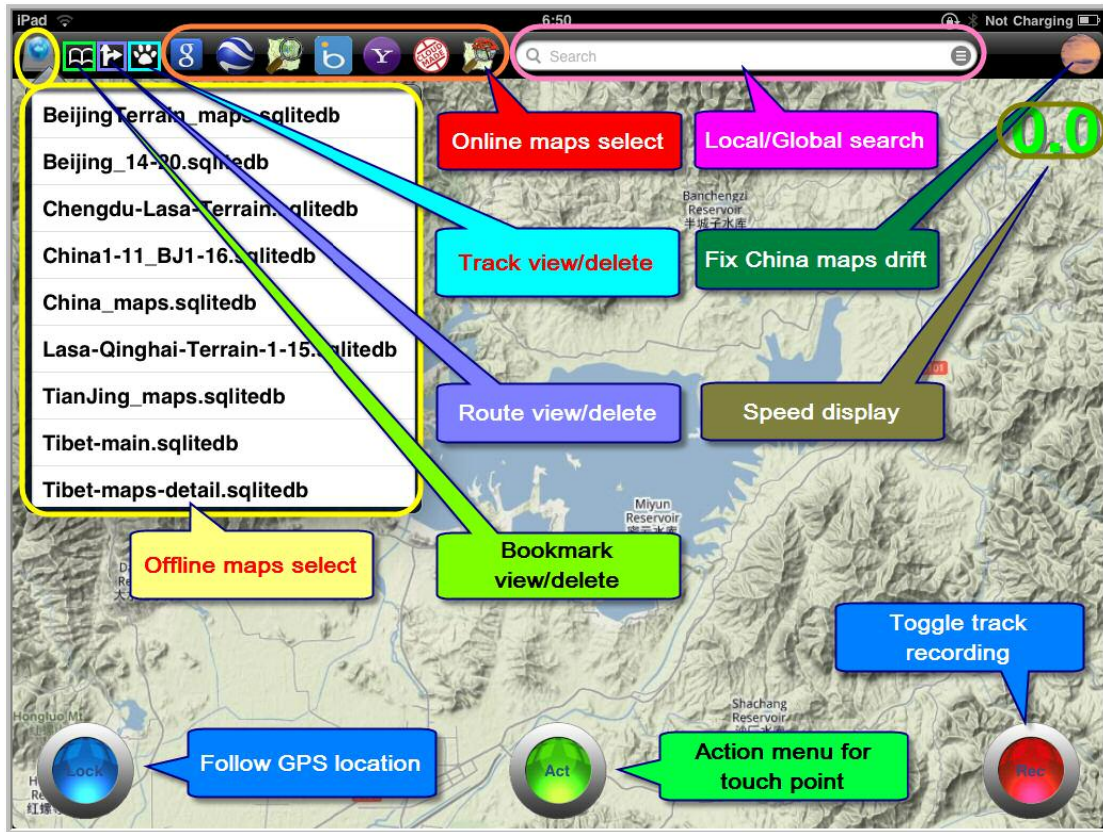
Switch to online maps instantly. Support 7 popular map sources.

Languages:

English and simplified Chinese.

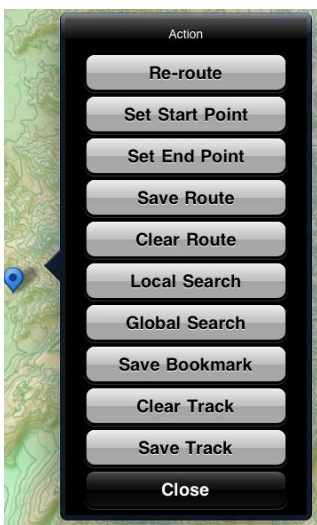


User Interface



User interface designed to be simple, direct and efficient.

When "Act" button pressed, a action menu will brought to front for user to perform proper actions. Most actions had relations with current touch point, current track and current route.



**Action menu items:**

- Re-route
Re plan a route starting from current GPS location, and ending with previous end point
- Set start point
Set start point of route to plan. If end point had been set before, the route planning will performed in the background and will displayed once planning complete.
- Set end point
Set end point of route to plan. If start point had been set before, the route planning will performed in the background and will displayed once planning complete.
- Save route
Save current route.
- Clear route
Clear current route.
- Local search
Perform local search based on the location of map center.
- Global search
Search places matching keyword all around the world
- Save bookmark
Save the touched point as a bookmark.
- Clear track
Clear current track.
- Clear route
Clear current route.

Map selection:

- Offline maps select
Easily switch to offline maps by clicking offline maps button and choose desired map
- Online maps select
Easily switch to online maps by clicking online map icon



Bookmark, route and track management:

- **Bookmark view/delete**
Click the icon to display the saved bookmark list. Tap a item to display the bookmark in map, slide finger from left to right on the item to delete it
- **Route view/delete**
Click the icon to display the saved route list. Tap a item to display the route in map, slide finger from left to right on the item to delete it
- **Track view/delete**
Click the icon to display the track list. Tap a item to display the track in map, slide finger from left to right on the item to delete it

Search

- **Local search**
Tap search box, type in keywords and perform local search. Local search's base location set to map center.
- **Global search**
Tap "Action menu for touch point", select "global search". The search result will be the places matched the keyword among the world, sorting by keyword matching score.

China map drift fix

Tap on the icon to toggle china map drift fix. If icon in Earth mode, the fix function will be disabled. When the icon in Mars mode, a "fix" routine will be applied to fix map display issue when using certain maps which have drift issue.

Speed display

Current GPS speed in KM/h.

Quick buttons

- **Blue button: Lock**
Toggle following GPS location. Keep current GPS location in map center.
- **Green button: Action**
Perform actions.
- **Red button: Track record**



Toggle track recording.

Status bar

When "Status text" enabled, a status bar will appear in the top of the screen. When new location received, it will display the location format such as:

In Earth mode:

`"(Latitude, Longitude) A:Atitude T:Track points"`

In Mars mode:

`"Z:Zoom level (GPS Latitude, GPS Longitude) => (Fixed latitude, Fixed longitude) A:Atitude T:Track points"`



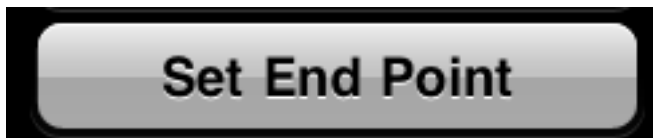
Navigation

Simple steps to start navigation:

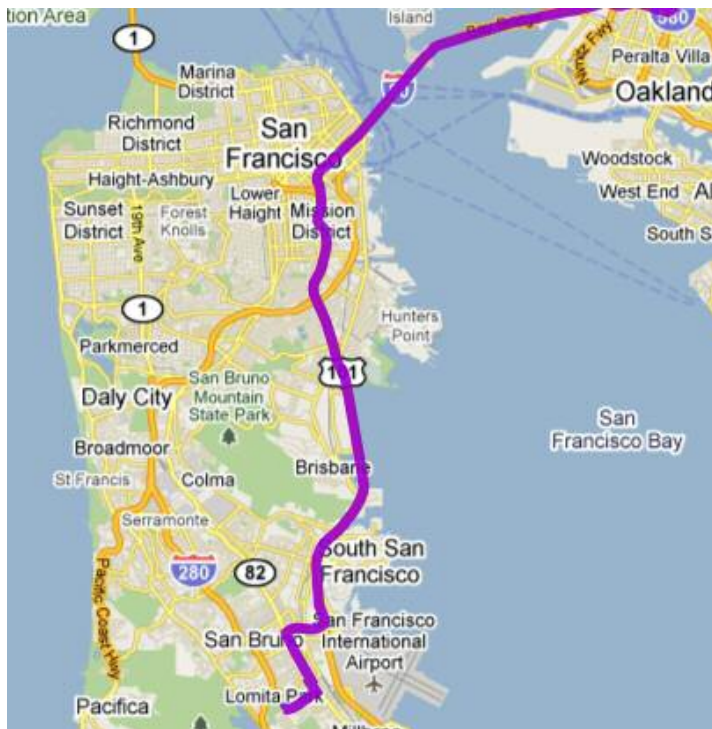
1. Set start point
Touch the location to start, or select the location from bookmark. Then tap Action button, select "Set Start Point"



2. Set end point
Touch the location of destination, or select the location from bookmark. Then tap Action button, select "Set End Point"



3. Route will be planned via Google maps API. Ensure you have Internet connection before route planning. Once route planning completed, the route will be displayed in the map.





4. Click "lock" button to follow GPS location



During navigations, the current speed will displayed in the map. If the speed lower than 80KM/h, the speed text color will be green. If speed is between 80KM/h to 120KM/h, the color will be orange. If speed exceed 120KM/h, the color will turn to red.



During navigations, if you want to re-plan a route from current location to previous set end point, tap on Action button and choose Re-route.



Global Navigator don't have voice navigation and turn-by-turn assistance yet.

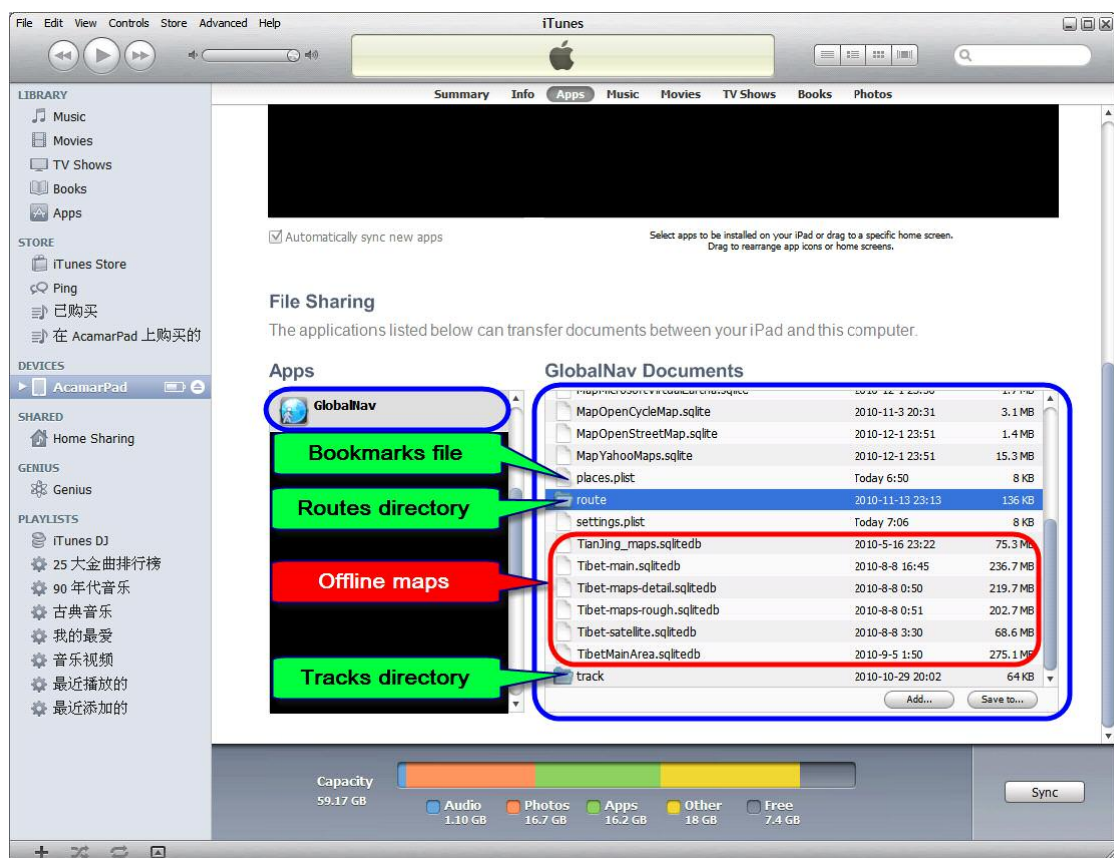


Offline maps / Route / track / bookmark export and import

Offline maps can be exported or imported using iTunes.

Routes, tracks, bookmarks, once saved, can be exported or imported using iTunes.

1. Connect your iPad/iPhone using Apple USB cable.
2. Start iTunes. Choose your iPad/iPhone, choose Apps TAB, choose "Global Navigator" in File Sharing area:



Offline maps were files with extension of ".sqlitedb";

Bookmarks saved in a file "places.plist";

Route saved in directory "route";

Tracks saved in directory "track".

3. Drag these files or directories from iTunes to PC (Windows or Mac) to export offline maps, bookmarks, routes or tracks to PC.
4. Drag files of offline maps, bookmarks, route directory or track directory from PC to iPad/iPhone to import.



Details of directory structure of offline maps, bookmarks, routes and tracks:

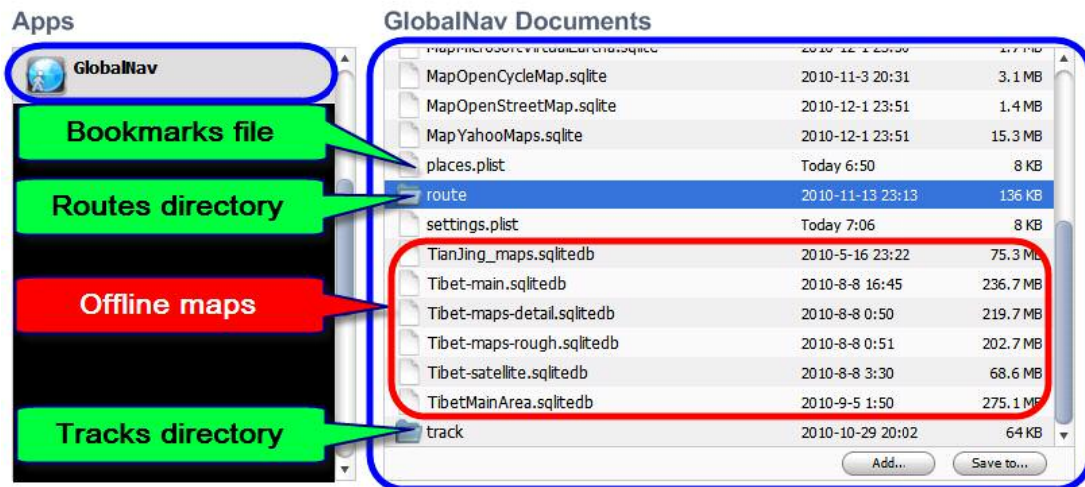
```
places.plist
offline-map-1.sqlitedb
offline-map-2.sqlitedb
offline-map-3.sqlitedb
route/
track/
other-files.sqlite
other-files.sqlite
```

You can see other files ends with ".sqlite" extension, these are files of online maps cache. They can be delete safely

Larger screen shot of iTunes file sharing:

File Sharing

The applications listed below can transfer documents between your iPad and this computer.





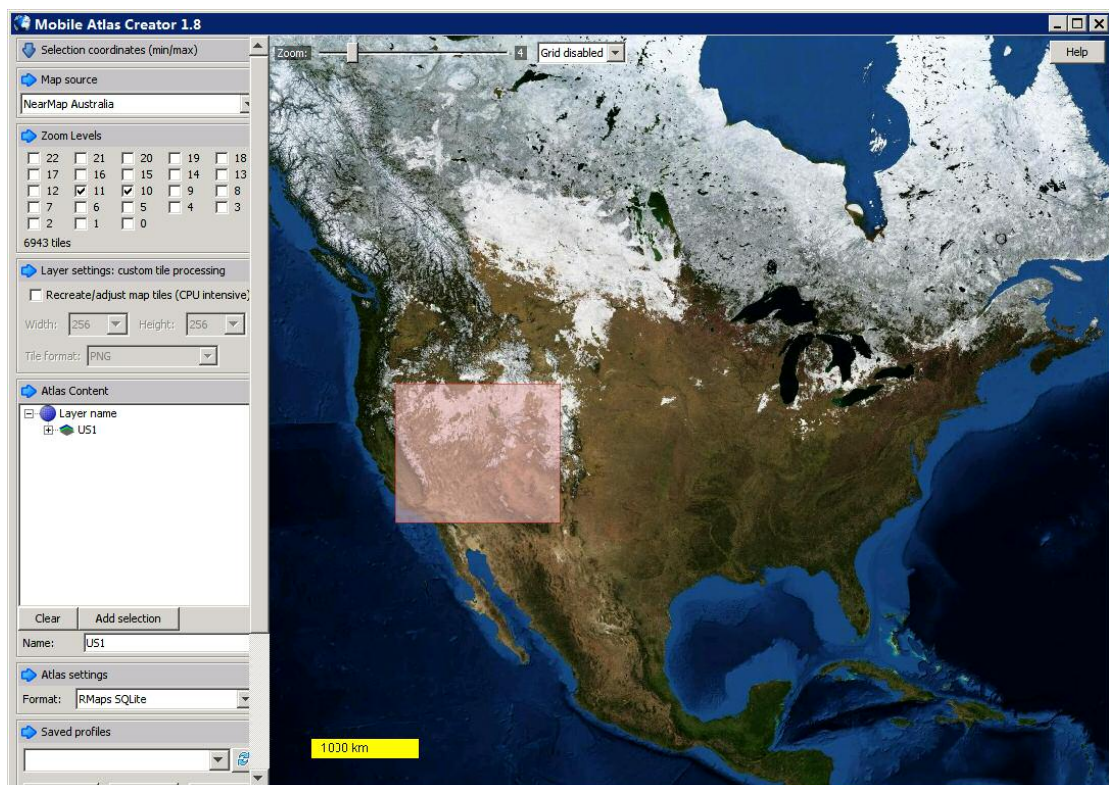
Create offline maps

Offline maps creation work is easy, funny and excited. Using "Mobile Atlas Creator", which can be downloaded from <http://mobac.dnsalias.org>.

There are many tutorials in the Internet which are very helpful. Some of them seems to complicated, actually, the creation of offline maps is very direct and simple:

1. Download and install Mobile Atlas Creator;
2. Start Mobile Atlas creator;
3. Select map source, Google terrain for example
4. Select area to save;
5. Select zoom levels;
6. Select export map format as "**Rmaps SQLite**";
7. Proceed "Create Atlas".

Then you can import created .sqlitedb file to iPad/iPhone using iTunes. Instructions were illustrated above.



Using Mobile Atlas Creator



System requirements

- iPhone 3GS, iPhone 4, iPad with GPS capability is required.
- iOS 4 required.
- iTunes required to import/export offline maps.
- Mobile Atlas Creator (free open-source tool) required to create offline maps.
- Route planning, location search needed to be done online.



Version history

- 1.0
Initial release, build under iOS SDK 4.1.
Support iPhone 3GS, iPhone 4, iPad (with GPS hardware)
Support iOS 4.1
- 1.1
Build under iOS SDK 4.2
Support iPhone 3GS, iPhone 4, iPad (with GPS hardware)
Support iOS 4.2



Support

Visit <http://globalnav.yolasite.com/> for latest information. And you can submit any feedbacks, bug reports and comments using <http://globalnav.yolasite.com/contact.php>.

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