

## Help Legacy Navigator 0.1 - Overview and History

		<p>Legacy Navigator is a program to prepare the flight plan dedicated to Fly! Legacy.          Legacy Navigator is the successor to VolNav Fly! II. The latter developed in Pascal (Delphi) has been completely redeveloped in C++ (Qt).</p> <p>It shows the general appearance of VolNav with adjustments that reflect new Fly! Particularly in terms of legacy database: POD files in this case are hardly used outside the aircraft.          Formerly offered by add-ons facilities have been included from the outset in this program.</p> <p>License          This software is a shareware program developed in C++ using the Qt framework Digia. See details of this license on the menu 'About' software.          It may not be distributed on other sites Simvol Avsim or without permission from the author or subject of financial compensation.</p> <p>Translation made with the help of Google translate: I apologize if any inaccuracies !</p>
07-2013	0.20	<ul style="list-style-type: none"> <li>Added the display of the path of the aircraft with Fly! Legacy</li> <li>Fixed minor bugs</li> </ul>
06-2013	0.10	First release

## Help Legacy Navigator beta 0.1 - Installation

In the installation directory Fly! Legacy create a subdirectory .. / Tools or be placed all the tools to Fly! Legacy.  
In this directory create a subdirectory .. / Legacy Navigator and place in the contents of the installation zip.

You must have also installed the databases Fly! Legacy including Route.db order to view the airways and SID / STAR. However, given the volume of data, you can not install to improve the performance of your PC if it is an older generation.

This program has been tested with Windows 7 and 8 only.

## Help Legacy Navigator beta 0.1 - Starting

Launch the application (LegacyNavigator.exe).  
You will need to wait a few moments for loading data.

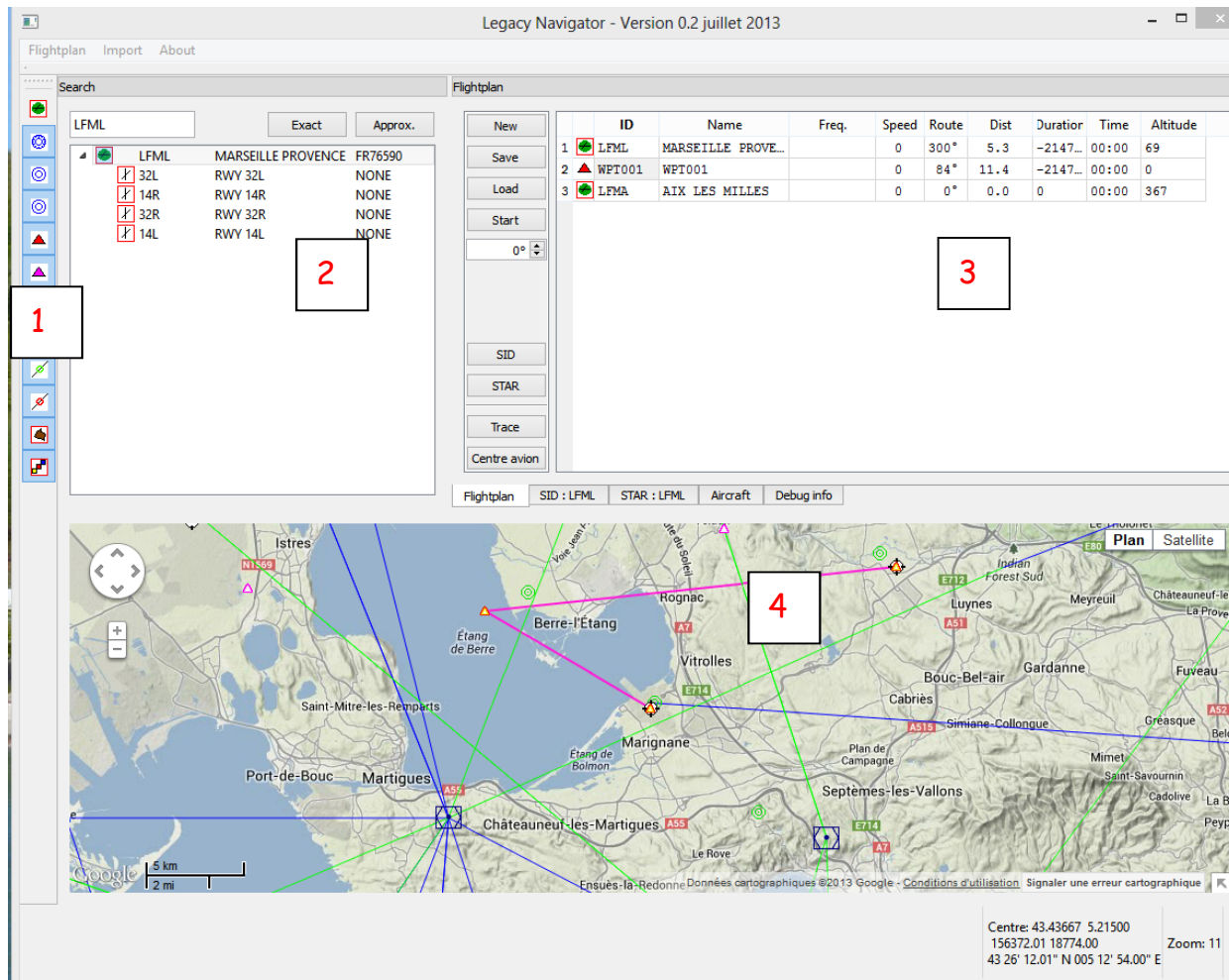
**IMPORTANT** An unresolved bug due to the large amount of data stored on the map, especially airways (ATS) data implies that the loading of the airways is limited to a single country whose value is located in the file navigator.ini and is France by default:

route = EN

For USA must be used eg

route = U.S.

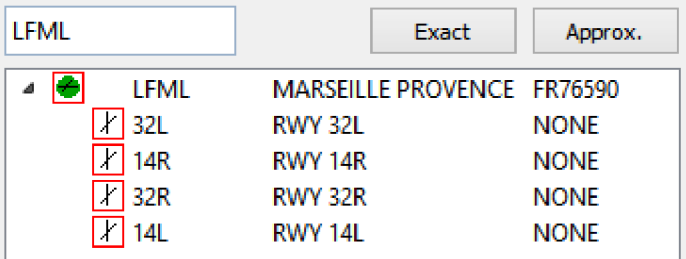
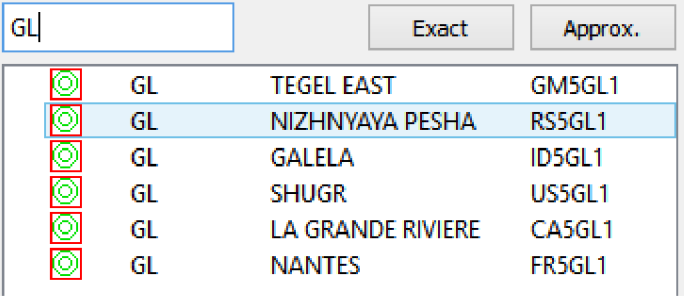
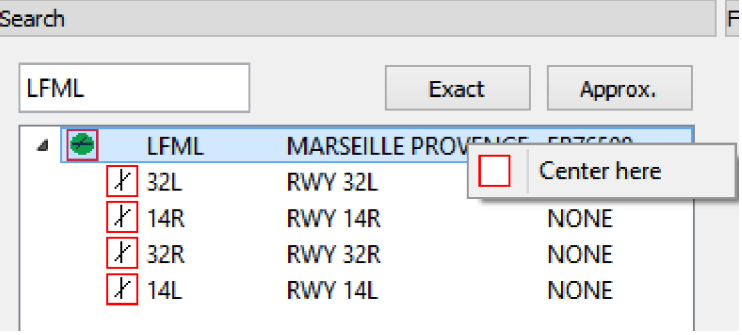
## Help Legacy Navigator beta 0.1 - Starting



The window that opens has four parts:

1. A menu box button
2. A search area (airports, navaid, waypoint)
3. An area tab: the flight plan and its parameters
4. Map to draw the flight plan and its setting buttons

## Help Legacy Navigator beta 0.1 - Search area

	<p>Enter the ICAO code of the airport, navaid or waypoint and do press the Enter key or click a button <input type="button" value="Exact"/> <input type="button" value="Approx."/> depending on whether you want to search the exact name or any name containing the word.</p>
	<p>In the following case against the search term and entered matches more nav aids.</p>
	<p>By right-clicking you can access a pop-up menu to position the map at the right place</p>

## Help Legacy Navigator beta 0.1 - The area tab: the flight plan and its parameters

Flightplan

New Save Load Start

0°

SID STAR POD

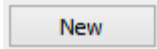
	ID	Name	Freq.	Speed	Route	Dist	Duration	Time	Altitude
1	LFMA	AIX LES MILLES		0	282°	7.6	-2147...	00:00	367
2	WPT001	WPT001		0	237°	8.4	-2147...	00:00	0
3	WPT002	WPT002		0	145°	11.8	-2147...	00:00	0
4	WPT003	WPT003		0	6°	8.8	-2147...	00:00	0
5	LFML	MARSEILLE PROVE...		0	0°	0.0	0	00:00	69

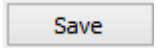
Flightplan SID STAR Aircraft Debug info

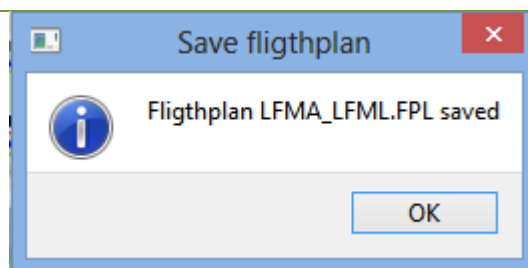
Several tabs where you will find:

- the flight plan itself
- any SID and STAR associated with aerodromes of departure and arrival
- the choice of the aircraft for this flight (including those on your computer)

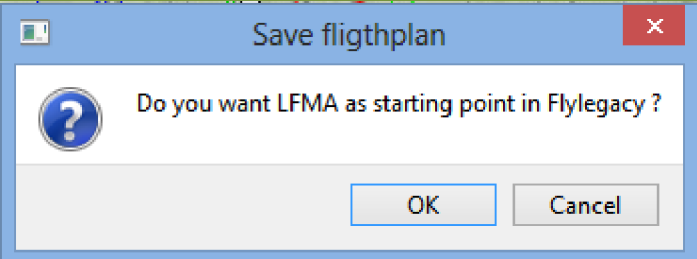
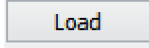
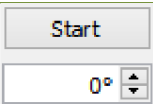

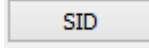
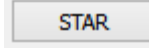
- You can also find on the left of the flight plan six buttons:

-  clears the flight plan underway to create a new one

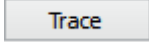
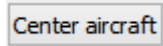
-  save the flight plan in the 'Flighplan' directory of your installation Fly! Legacy.



## Help Legacy Navigator beta 0.1 - The area tab: the flight plan and its parameters

		<ul style="list-style-type: none"> <li>- Then you will be asked if you want to use the airport of departure of the flight plan as a starting point for the opening of Fly! Legacy.</li> <li>- If so, start a file will be saved in 'Saved situations' and the file 'FlyLegacy.ini' amended accordingly.</li> </ul>
		<ul style="list-style-type: none"> <li>-  clears the flight plan being to load existing flight plan</li> </ul>
		<ul style="list-style-type: none"> <li>-  allows you to use the airport of departure of the flight plan as a starting point for the opening of Fly! Legacy.</li> <li>- If so, start a file will be saved in 'Saved situations' and the file 'FlyLegacy.ini' amended accordingly.</li> <li>- The orientation of the plane can be changed by adjusting the angle below the button This orientation will be visible on the map and will be adjusted accordingly.</li> </ul>
		<ul style="list-style-type: none"> <li>-  allows you to create a standard departure (SID). See below</li> </ul>
		<ul style="list-style-type: none"> <li>-  allows you to create a standard departure (STAR). See below</li> </ul>

## Help Legacy Navigator beta 0.1 - The area tab: the flight plan and its parameters

-  Allows you to see the path of the aircraft on the map for a flight with Fly Legacy!.
- First press the button to initiate this function. It becomes blue and just press again to cancel this function. It must have started on Fly! Legacy prior to this function the way.
-  Allows you to center the map on the plane when you are in Trace mode



## Help Legacy Navigator beta 0.1 - The map and settings buttons



See airports



See VOR



See NDB 'en route'



See NDB 'terminals'



Show points of reports' on the road



Show points of reports' terminals



Show points of reports 'VFR'



See airways 'lowland'



See airways 'high altitude'



See airways 'mixed'



See the control areas (not implemented)



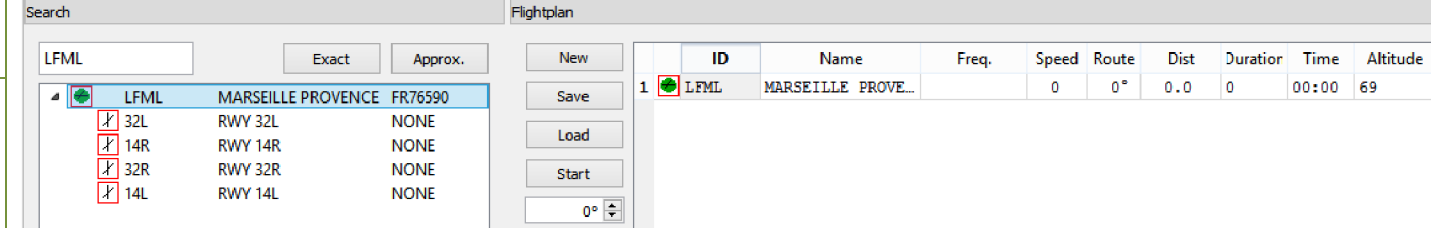
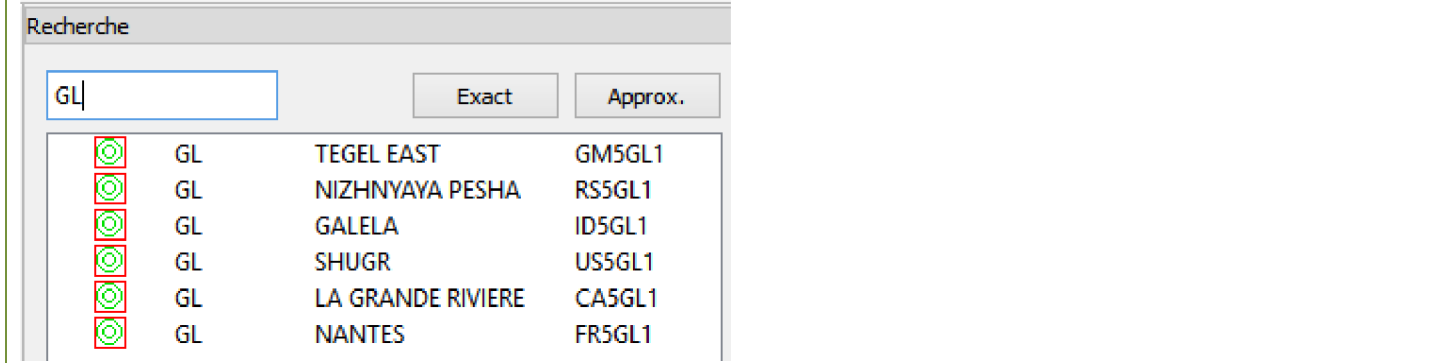
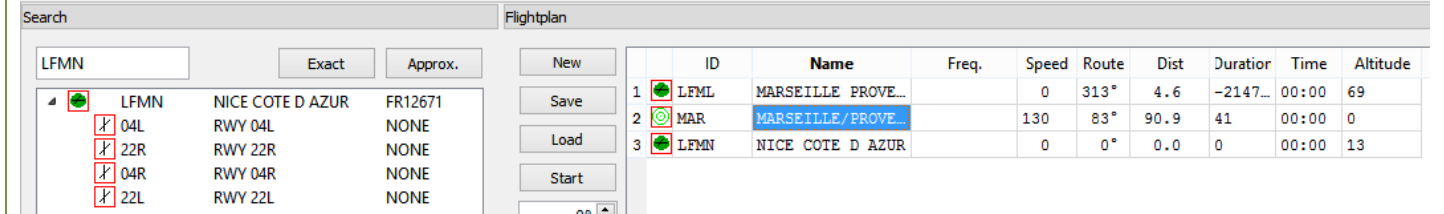
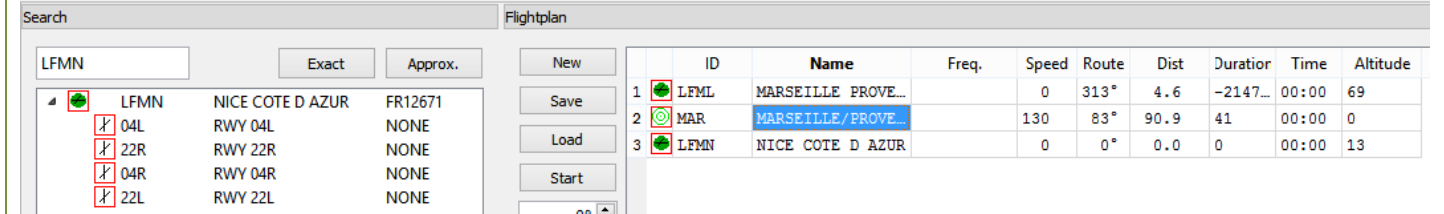
Open / close buttons and flight plan

## Help Legacy Navigator beta 0.1 - Creation of the flight plan

Two methods are available for you to create your flight plan:





- you know all the crossing points (airport, navaid or waypoint) with their ICAO code and you can be content to use the search box
- you draw your flight plan with the help of the map by using the context menu: Right-click on an airport, navaid or waypoint
- and of course, a mixture of the two above possibilities

## Help Legacy Navigator beta 0.1 - First method: the search box

		<p>Begin by testing the departure airport. As we saw above, type in the ICAO code.</p>
		<p>Double-click on the first line (which corresponds to the airport, the others are there for another use) and your airport will be placed in the tab 'flight plan'.</p>
		<p>Same with a navaid. It may be that you have to choose among several homonyms.</p>
		<p>Even add a navaid and airport of arrival. Note that the double-click on the search box put your point below the currently selected row (which has a gray box).</p>

## Help Legacy Navigator beta 0.1 - First method: the search box

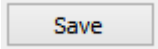
To move around the map, you are in Google maps and I refer to the use of this card, as the zoom or change base map.

	ID	Name	Freq.	Speed	Route	Dist	Duration	Time	Altitude
1	 LFML	MARSEILLE PROVE...		0	313°	4.6	-2147...	00:00	69
2	 MAR	MARSEILLE/PROVE...		130	199°	6.6	3	00:00	0
3	 MTG	MARTIGUES		130	79°	94.1	43	00:00	0
4	 LFMN	NICE COTE D AZUR		0	0°	0.0	0	00:00	13

To add a point in your flight plan, click on the map tab on the flight line below which you want to add a point and repeat the steps above.

Flightplan	Import	About
New flightplan	Ctrl+N	
Save flightplan	Ctrl+S	
Load flightplan	Ctrl+L	
Quit	Ctrl+Q	







**Do not forget to save your work as and when it progresses.**

To do this, you can either click on the button  or go to the menu bar.

If you must stop your work of course you can recharge your flight plan.

## Help Legacy Navigator beta 0.1 - IFR flight plan

SID : LFML



Nom	Fixe
▲ 14 AVN 7B	
	ML002
	ML003
	VENTA
	LOGIS
	SAURG
	AVN
▷ 14 LUC 7B	
▷ 14 MAMES 7B	
▷ 14 MARRI 7B	
▷ 14 MTL 7B	
▷ 14 PPG 7B	
▷ 14 PPG 7L	
▷ 14 SOSUR 7B	

Add to flightplan
Delete

Flightplan
SID : LFML
STAR : LFML
Aircraft
Debug info

This type of plan is suitable for VFR flight under IFR but it is more realistic to use the SID or STAR. Click on the aerodrome of departure in terms of flight tab then open the SID or STAR tab.

You will see the list of departures.

	ID	Nom	Fréq.	Vitesse	Route	Dist	Durée	Temps	Altitude	
1	 LFML	MARSEILLE PROVE...	0.000	95	80°	88.0	55	00:00	69	
2	 LFMN	NICE COTE D AZUR	0.000	95	0°	0.0	0	00:00	13	

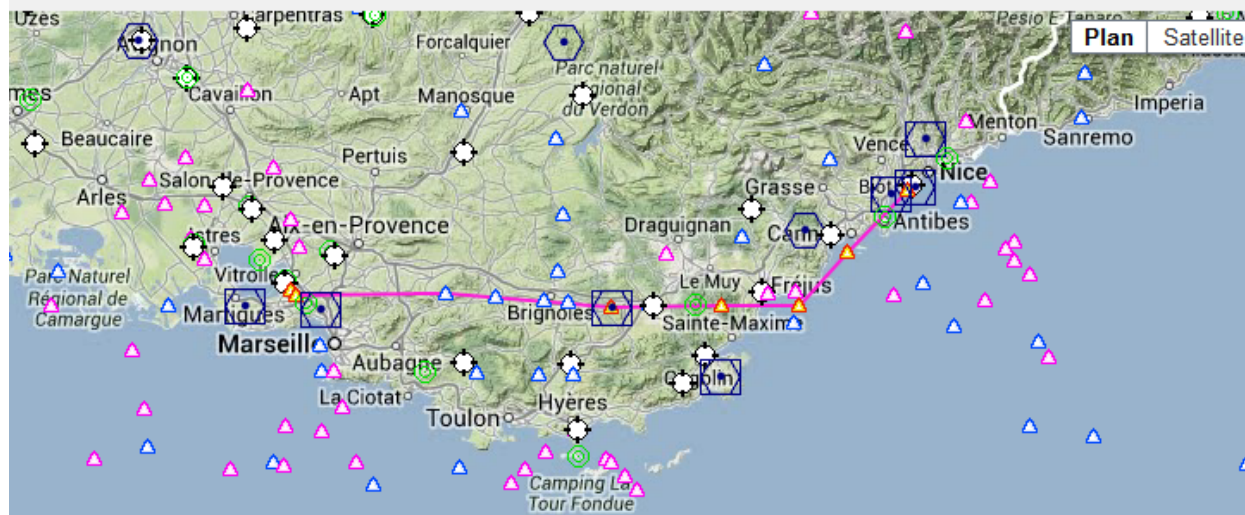
Start again our flight plan and choose our points of departure and arrival.

## Help Legacy Navigator beta 0.1 - IFR flight plan

### Flightplan

New		ID	Name	Freq.	Speed	Route	Dist	Duration	Time	Altitude
Save	1	LFML	MARSEILLE PROVE...		0	138°	1.3	-2147...	00:00	69
Load	2	ML002	ML002		0	135°	1.0	-2147...	00:00	0
Start	3	ML003	ML003		0	89°	20.9	-2147...	00:00	0
	4	TRETS	TRETS		0	94°	23.0	-2147...	00:00	0
	5	LUC	LUC		0	228°	0.0	-2147...	00:00	0
	6	LUC	LUC		0	89°	15.3	-2147...	00:00	0
	7	MUS	MUS		0	90°	0.0	-2147...	00:00	0
	8	MUS	MUS		0	90°	10.9	-2147...	00:00	0
	9	IF-04L...	IF-04L-MN		0	41°	10.1	-2147...	00:00	0
	10	FAF-MU...	FAF-MUS-04L		0	45°	11.9	-2147...	00:00	0
	11	R2092	R2092		0	30°	0.9	-2147...	00:00	0
	12	LFMN	NICE COTE D AZUR		0	0°	0.0	0	00:00	13

Flightplan SID : STAR : Aircraft Debug info



Click on the line of the departure airport and the 'SID' tab. Choose departure route that suits you: Clicking on the name it will appear on the map.

Then simply click on the button **Add to flightplan** and return to the flight plan.

Then click on the arrival airport and do the same process but with the STAR tab.

Adjust the zoom to see it on display for some major airports, you may need to add a final procedure (IAF) found in the STAR. So you need to add the STAR first and the final procedure (IAF).

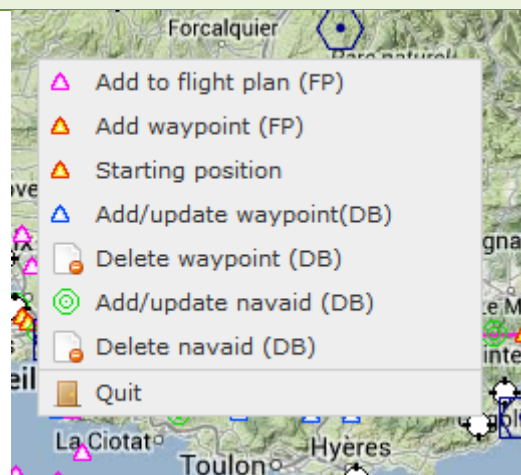
It only remains for you to complete the intermediate points along the airway.

## Help Legacy Navigator beta 0.1 - IFR flight plan


**Note about SID / STAR:** changing technologies of navigation (RNAV eg for more information go online and do a search for this term) and the introduction of more and more of the fact that the guide Radar and departure procedures are reaching more and more on the guidance radar and it becomes increasingly difficult to enter from beginning to end, especially between the IAF (Initial Approach Fix) and FAF (Final Approach Fix)

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## Help Legacy Navigator beta 0.1 - Second method: the pop-up menu




To add points to a flight plan (airport, navaid, waypoint or same waypoint staff), right-click the item to add.

Then click on  Add to flight plan (FP)

It will be added below the selected item in the flight plan

If you want to add a personal note at any point, repeat the above procedure by right-clicking in the desired location

and then  Add waypoint (FP)

and a new item will be added to the flight plan.

Warning this only exist in the flight plan and will not be registered in the database.




## Help Legacy Navigator beta 0.1 - Second method: the pop-up menu



You can also choose a very specific location on an aerodrome as a starting point.

To do this zoom the map and move you to that point. Right click on that then

 Starting position

Select the orientation of the plane

Start

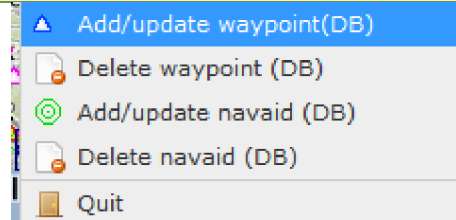
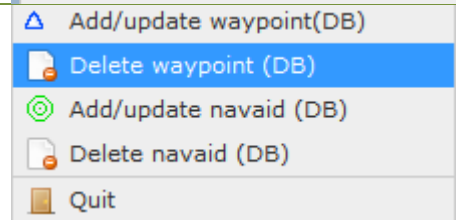
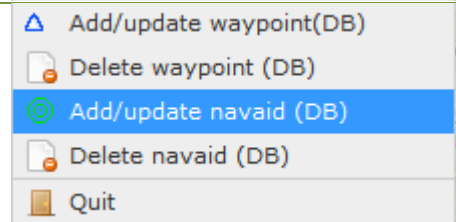
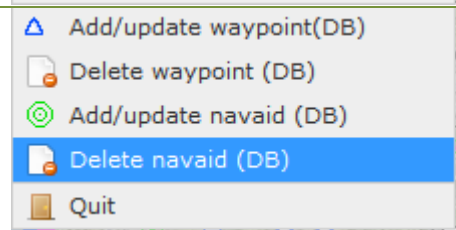
0°

Then click the Start button.

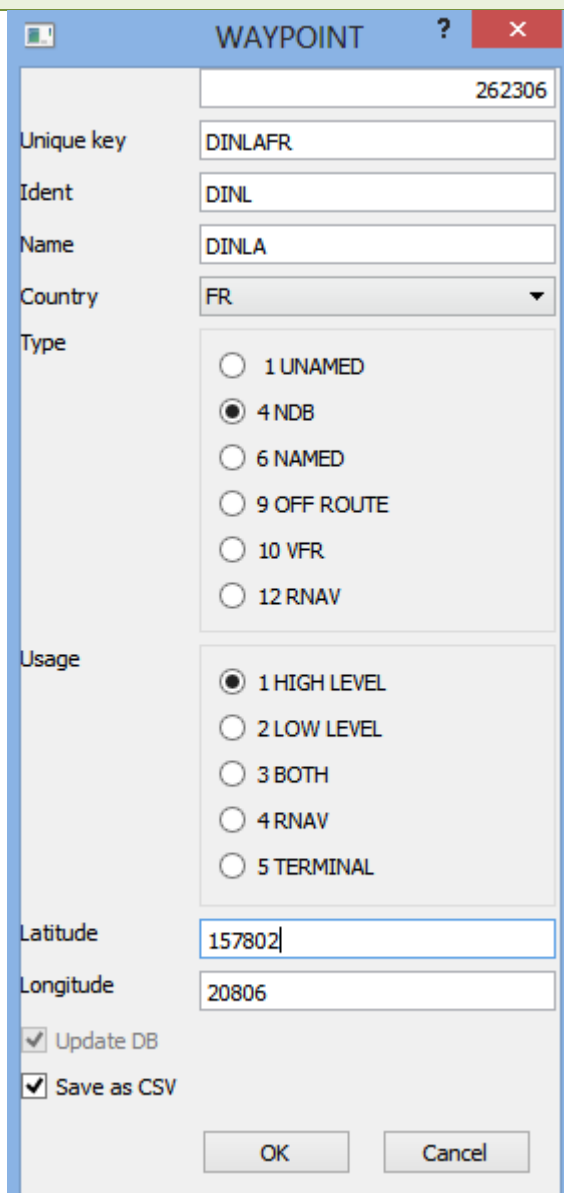
The aircraft position is indicated by the arrowhead.

You can adjust the position by moving the red triangle on the screen.

## Help Legacy Navigator beta 0.1 - Create / edit a waypoint or navaid in the database

			Adds a new waypoint in the database if you right-click an empty area.
			Deletes the waypoint below the mouse at the right click.
			Adds a new navaid (VOR or NDB) in the database if you right-click an empty area.
			Deletes the navaid below the mouse at the right click.

## Help Legacy Navigator beta 0.1 - Create / edit a waypoint or navaid in the database



WAYPOINT ? X

262306

Unique key: DINLAFR

Ident: DINL

Name: DINLA

Country: FR

Type:

- ☐ 1 UNAMED
- ☒ 4 NDB
- ☐ 6 NAMED
- ☐ 9 OFF ROUTE
- ☐ 10 VFR
- ☐ 12 RNAV

Usage:

- ☒ 1 HIGH LEVEL
- ☐ 2 LOW LEVEL
- ☐ 3 BOTH
- ☐ 4 RNAV
- ☐ 5 TERMINAL

Latitude: 157802

Longitude: 20806

☒ Update DB

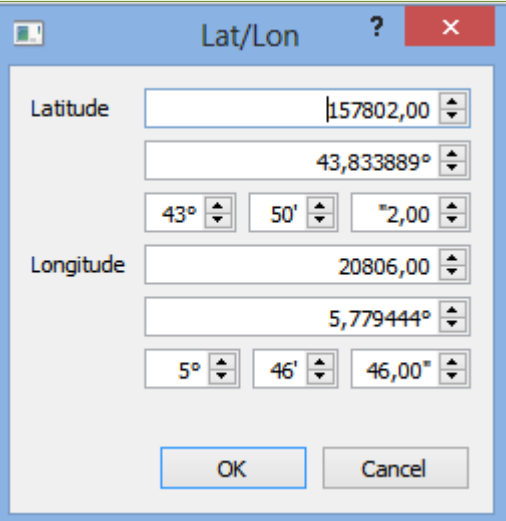
☒ Save as CSV

OK Cancel

Entering the values of a Waypoint:

1. unique key
2. username
3. name
4. Country (short)
5. Type
6. Use
7. Latitude
8. Longitude
9. Recording option in the export file

## Help Legacy Navigator beta 0.1 - Create / edit a waypoint or navaid in the database

 <p>Lat/Lon ? x</p> <p>Latitude</p> <p>157802,00</p> <p>43,833889°</p> <p>43° 50' 2,00</p> <p>Longitude</p> <p>20806,00</p> <p>5,779444°</p> <p>5° 46' 46,00"</p> <p>OK Cancel</p>	<p>Entering latitude and longitude values</p>
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## Help Legacy Navigator beta 0.1 - Créer/modifier un waypoint ou navaid dans la base

NAVAID ? x

Unique key 262306

Unique key FR1DGN1

Ident DGN

Name DIGNE

Frequency 113,850

Country FR

Type

☒ VOR

☐ TACAN

☐ NDB

☐ VOR DME

☐ NDB DME

Usage

☐ High

☒ Low

☐ Both

☐ Terminal

☐ RNAV

Latitude 158369

Longitude 21963

☒ Update DB

☒ Save as CSV

OK Cancel

Entering the values of a NAVAID:

1. unique key
2. username
3. name
4. frequency
5. Country (short)
6. Type
7. use
8. Latitude
9. Longitude
10. Recording option in the export file

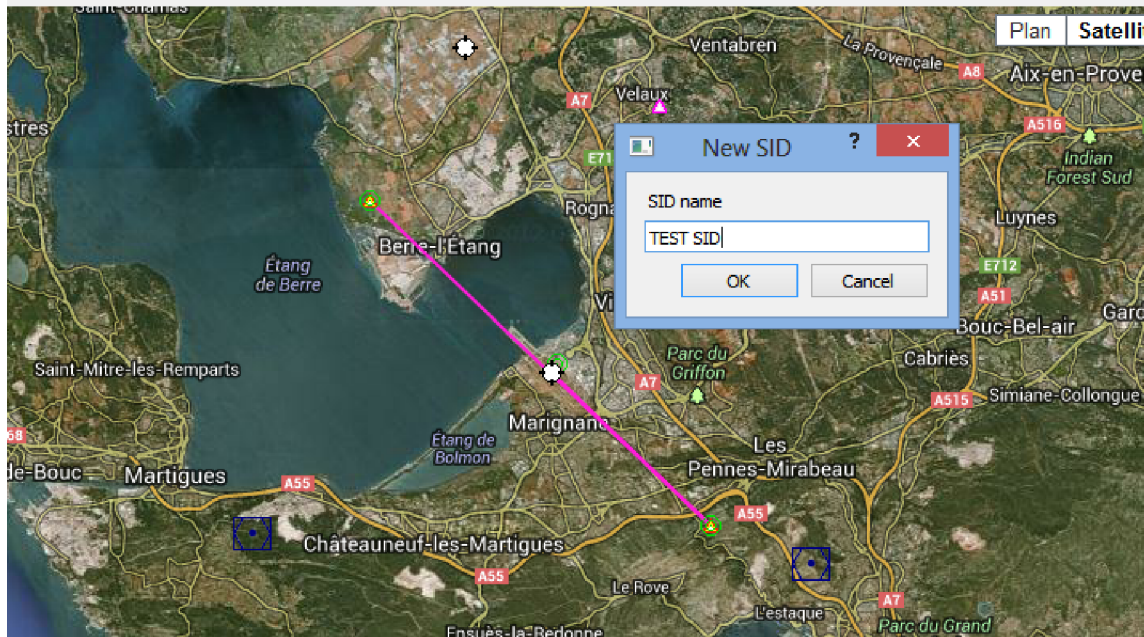
## Help Legacy Navigator beta 0.1 - Create SID and STAR

Flightplan

New Save Load Start 0° SID STAR POD

	ID	Name	Freq.	Speed	Route	Dist	Duration	Time	Altitude
1	LFML	MARSEILLE PROVE...		0	134°	4.2	-2147...	00:00	69
2	MS	MARSEILLE/PROVE...		130	314°	8.8	4	00:00	0
3	MAR	MARSEILLE/PROVE...		130	0°	0.0	0	00:00	0

Flightplan SID : LFML STAR : LFML Aircraft Debug info



To create a standard departure (SID) procedure for a flight plan but arrival airport by selecting either existing nav aids or waypoints to the new menu.

Then click on the button

SID

and appoint the SID.  
If you want to reuse an existing name it will be replaced in the database.

To remove a SID, select the SID.

Then click the button

Delete

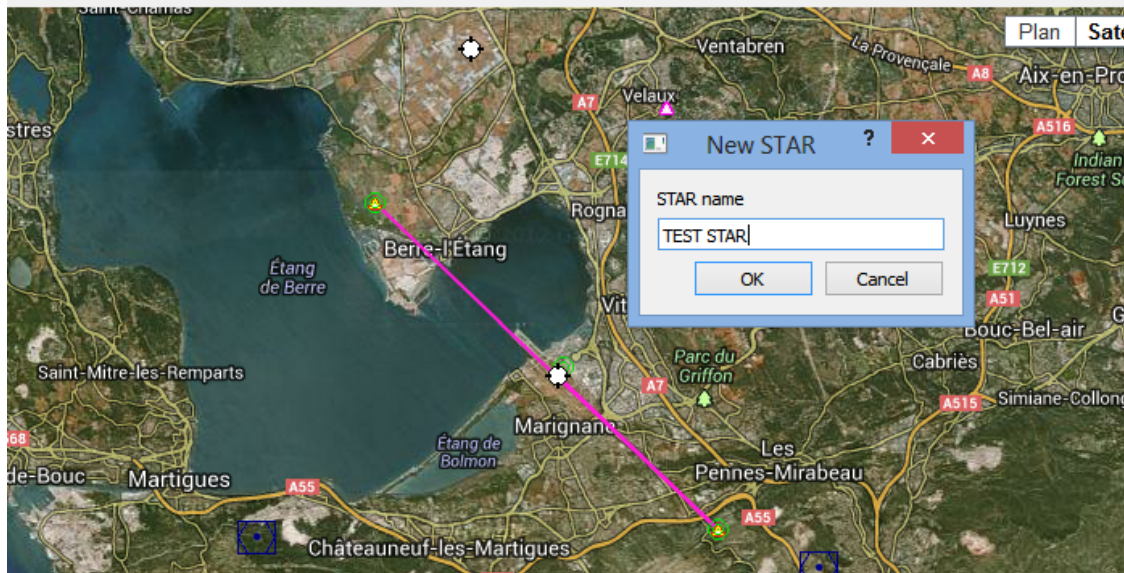
## Help Legacy Navigator beta 0.1 - Create SID and STAR

Flightplan

New Save Load Start 0° SID STAR POD

	ID	Name	Freq.	Speed	Route	Dist	Duration	Time	Altitude
1	MAR	MARSEILLE/PROVE...		130	134°	8.8	4	00:00	0
2	MS	MARSEILLE/PROVE...		130	314°	4.2	1	00:00	0
3	LFML	MARSEILLE PROVE...		0	134°	4.2	-2147...	00:00	69

Flightplan SID : LFML STAR : LFML Aircraft Debug info



To create a standard arrival (STAR) procedure for a flight plan but departure airport by selecting either existing nav aids or waypoints to the new menu.

Then click on the button

STAR

and name the STAR.  
If you want to reuse an existing name it will be replaced in the database.

To delete a STAR, select a STAR.

Then click the button

Delete

## Help Legacy Navigator beta 0.1 - Copyright

Good flight!

This program is freeware / freeware and can be marketed. Any distribution other than through Simvol or Avsim should be subject to the agreement of the author.

Didier RIGAULT