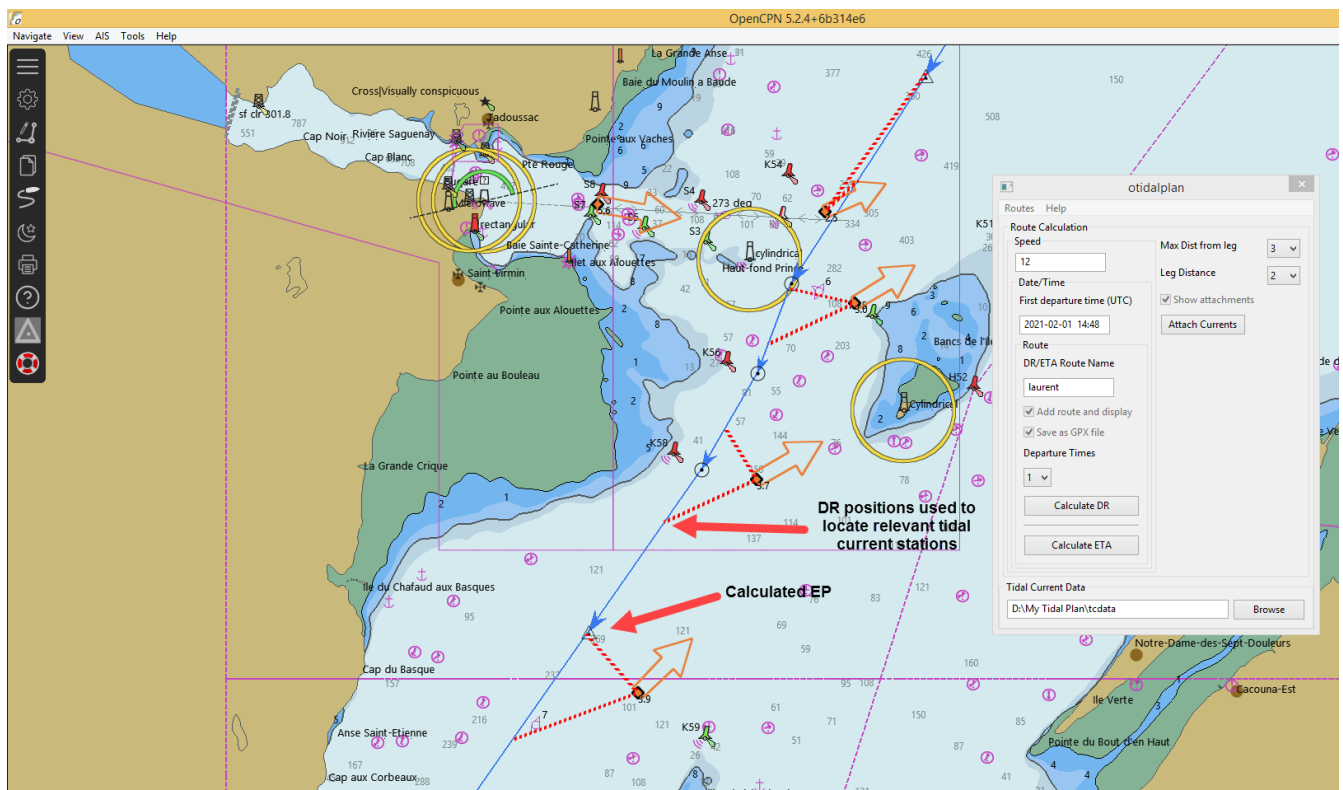


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## Welcome to the otidalplan\_pi wiki!



## Aim

Estimate positions along a route and final ETA using data from tidal current harmonics.

# References

## Requirements

OpenCPN 5.2.4 and above. For the initial download an Internet connection is needed. The plugin tarball can be downloaded and imported to OpenCPN.

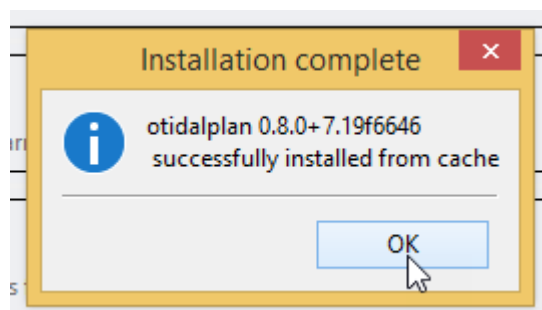
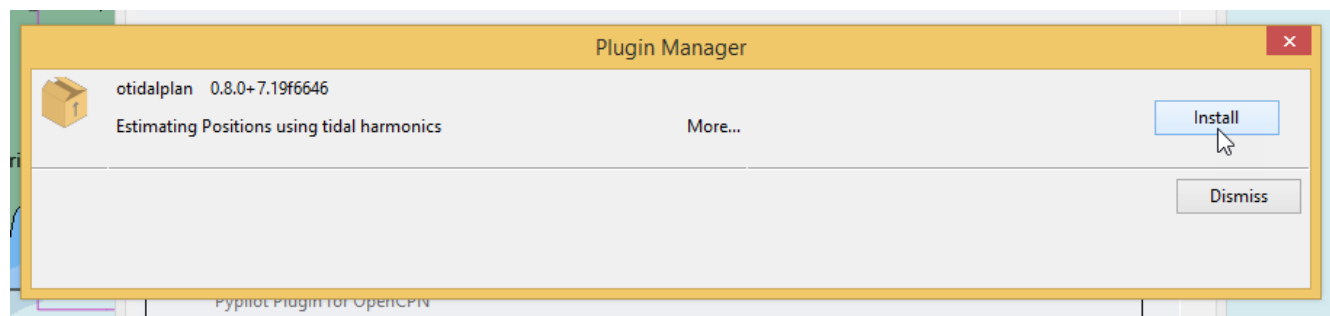
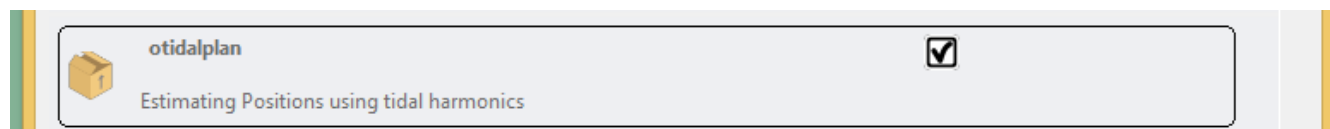
## 1. What the plugin does

Set and rate of the tidal current from tidal current harmonics is used to calculate EP positions along a route and a final ETA. Courses to steer and speeds made good are available. Starting at different times the ETA for these departure times can be compared. This takes into account the different tidal currents likely to be experienced.

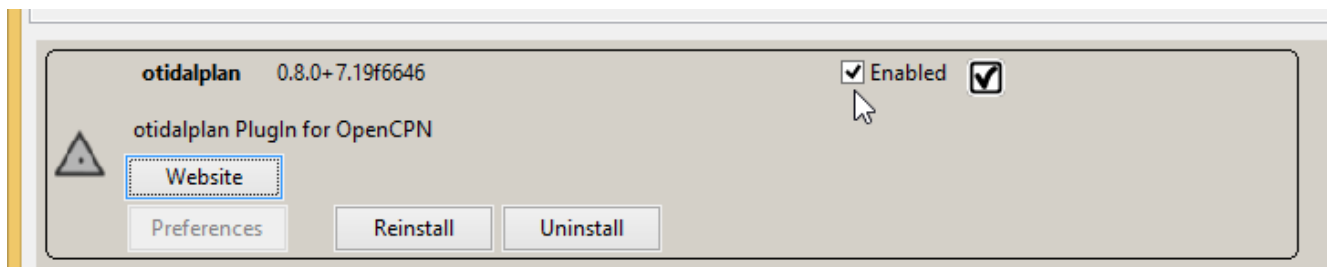
## 2. Install

The plugin is available in the Beta catalog of the plugin manager. After installation the otidalplan plugin is added to the list and can be enabled.

In the list of available plugins:



Ready to use:



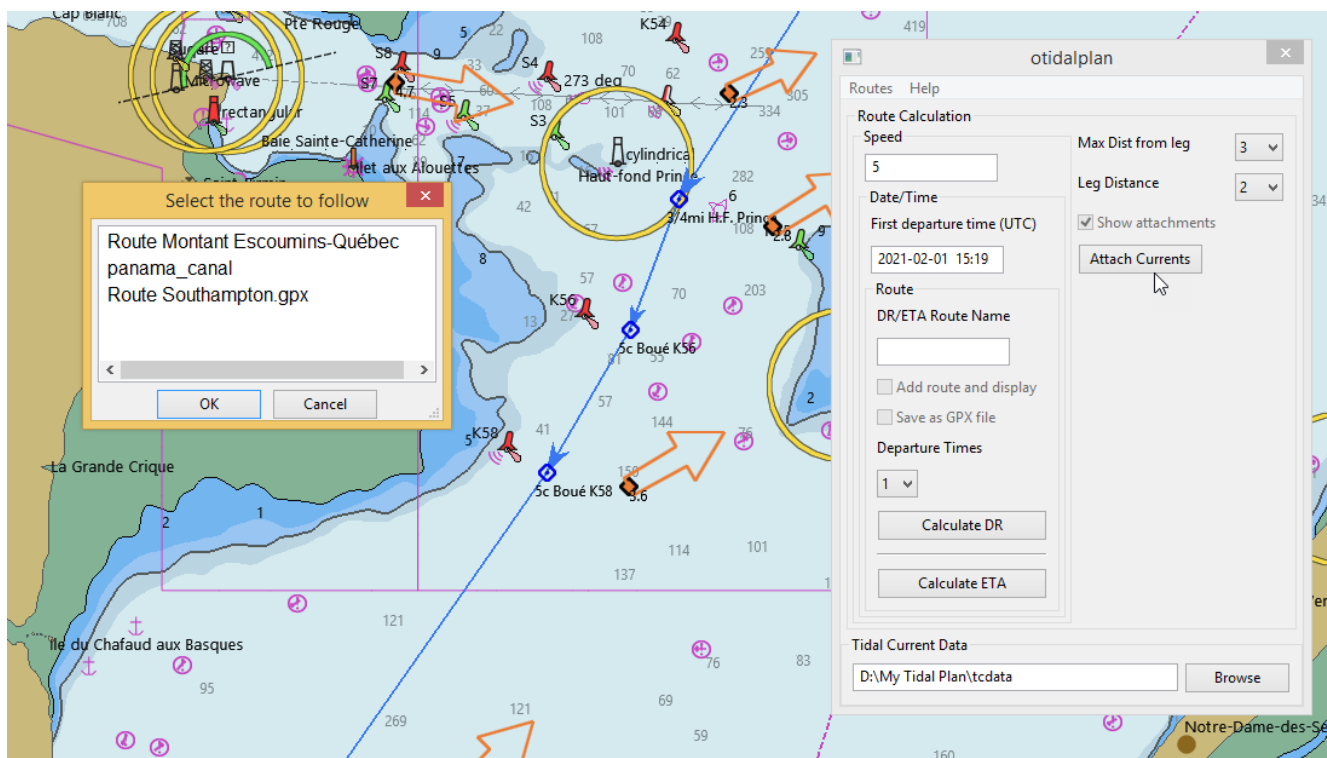
And in the toolbar:

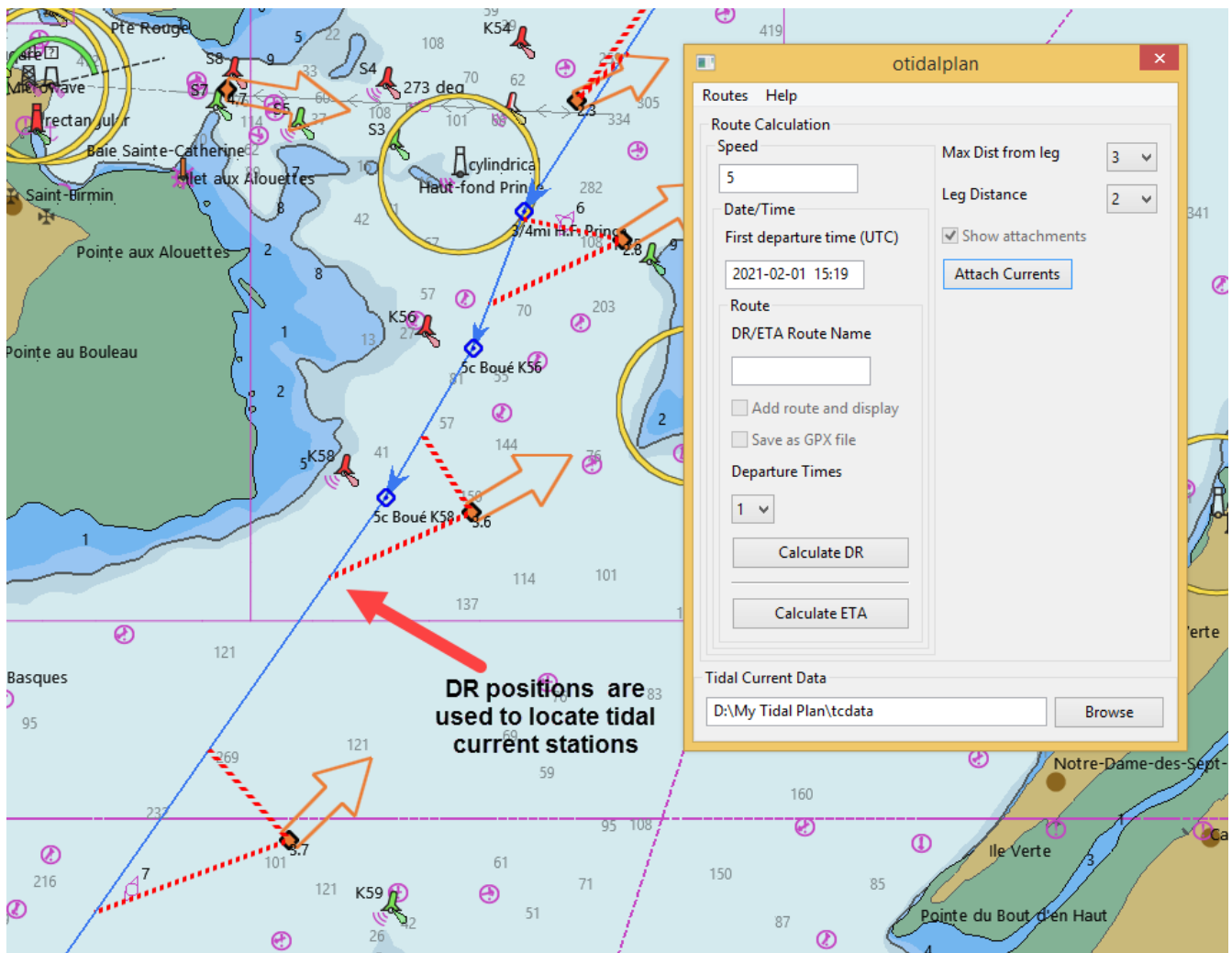


Showing the plugin dialog: [ALT TEXT]

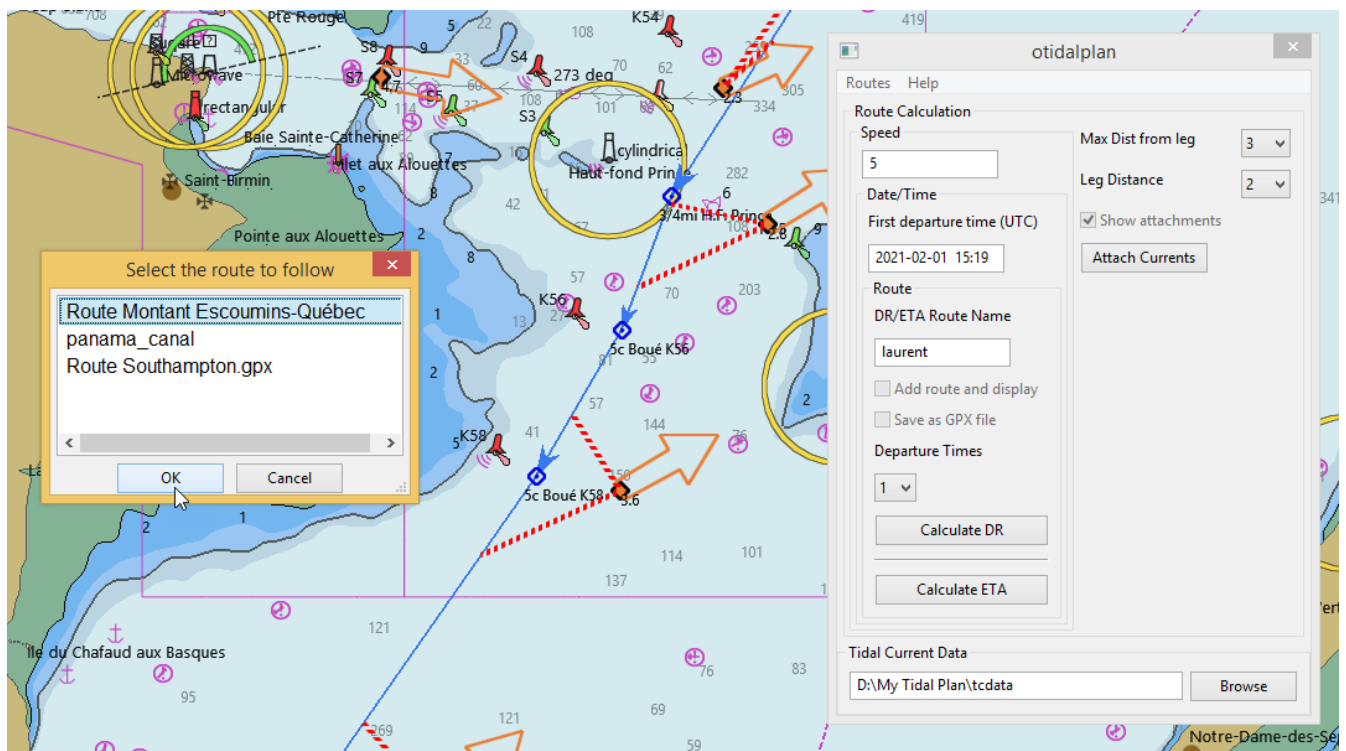
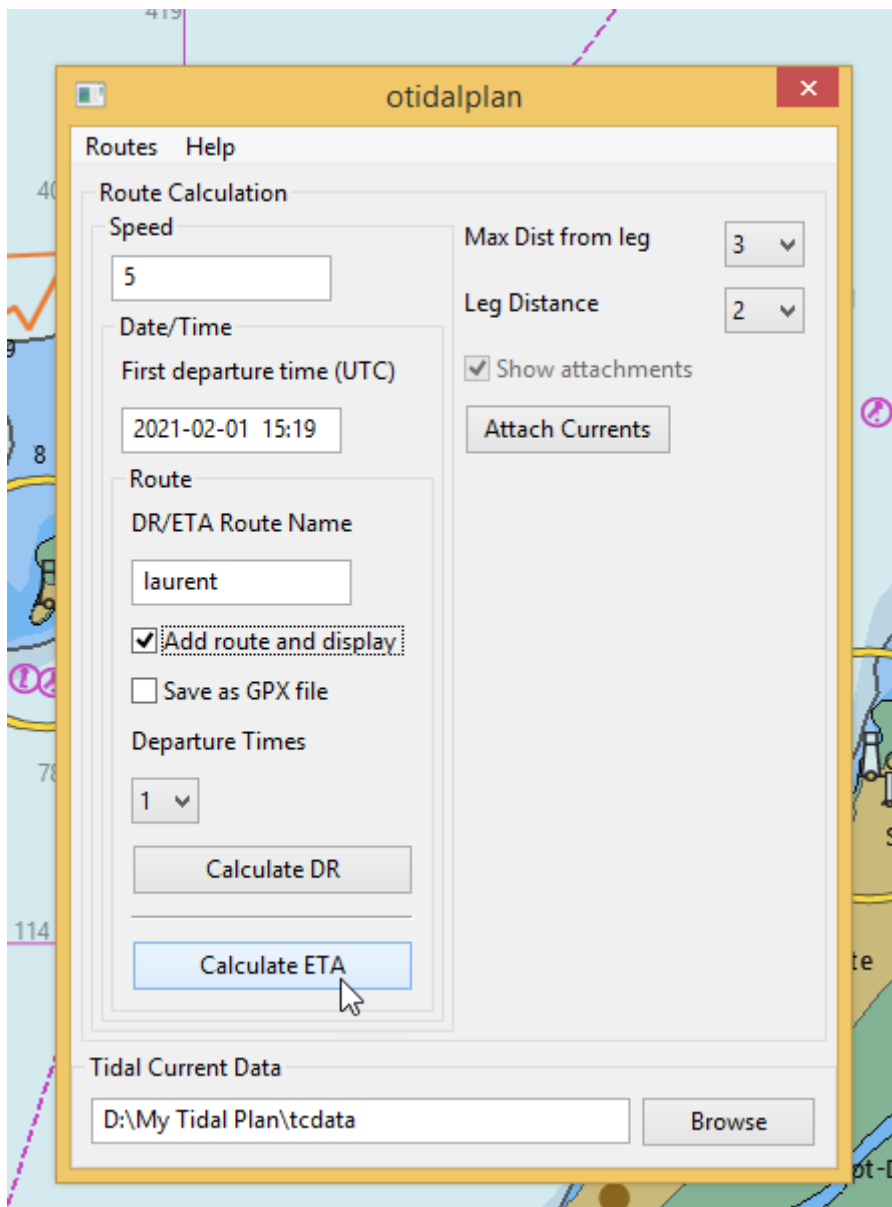
## Basic method

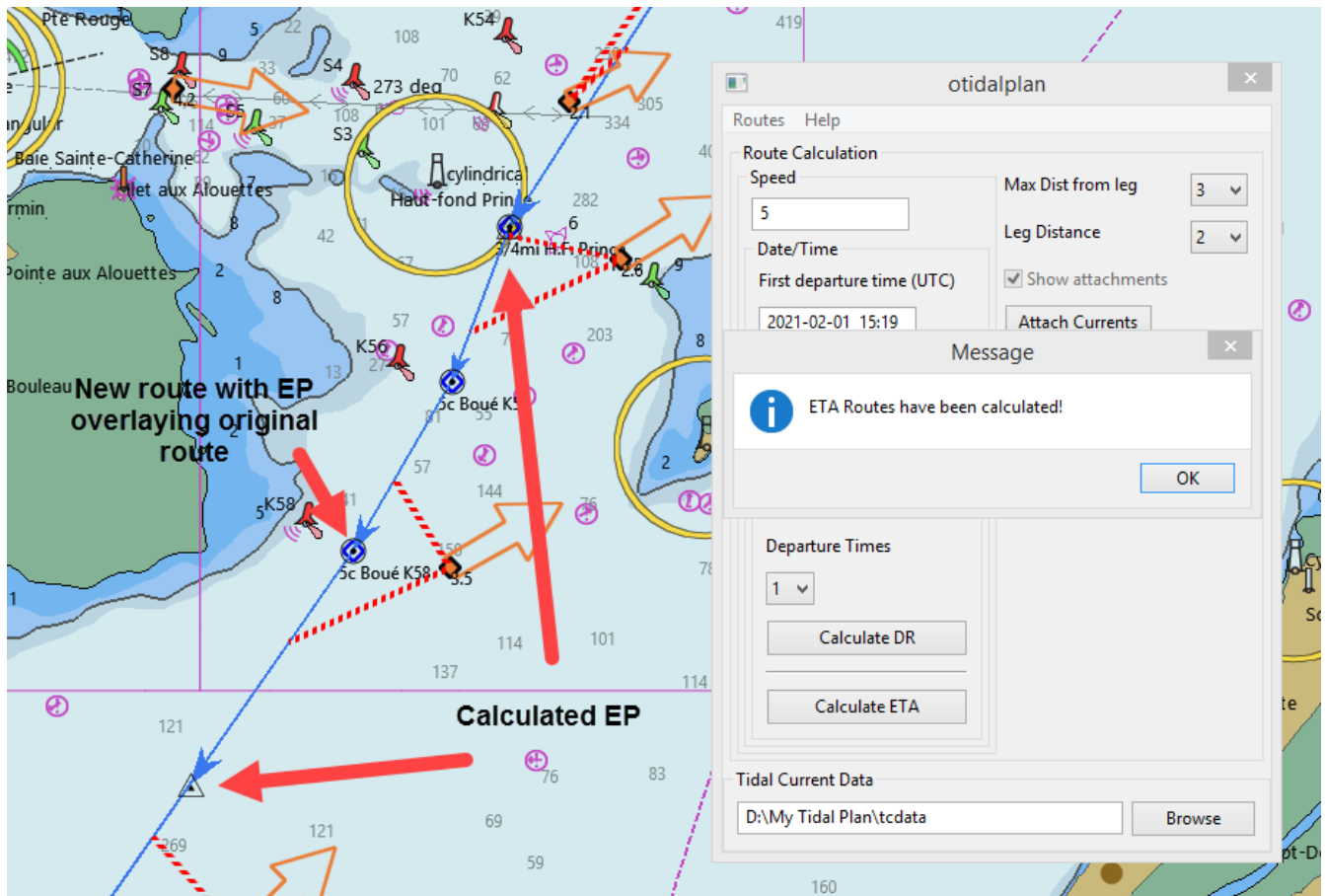
1. Attach the tidal current stations for the planned route. This is based on DR positions and the maximum distance from the station.





2. Enter the name for the route containing the EP. Tick the box to show the calculated route.
3. Calculate the ETA. This creates a new route containing the EP positions.

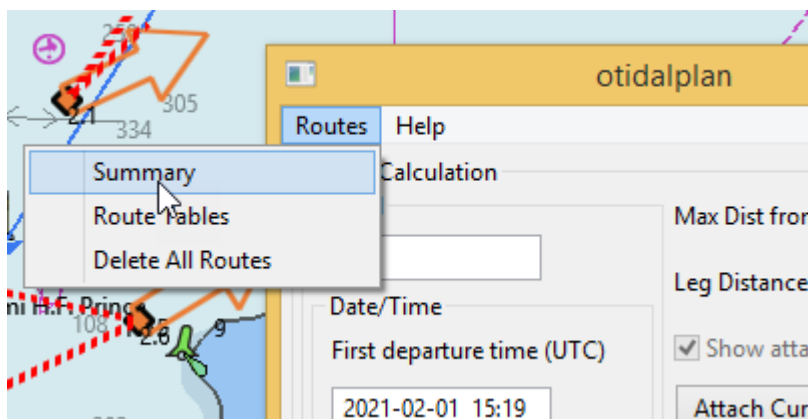


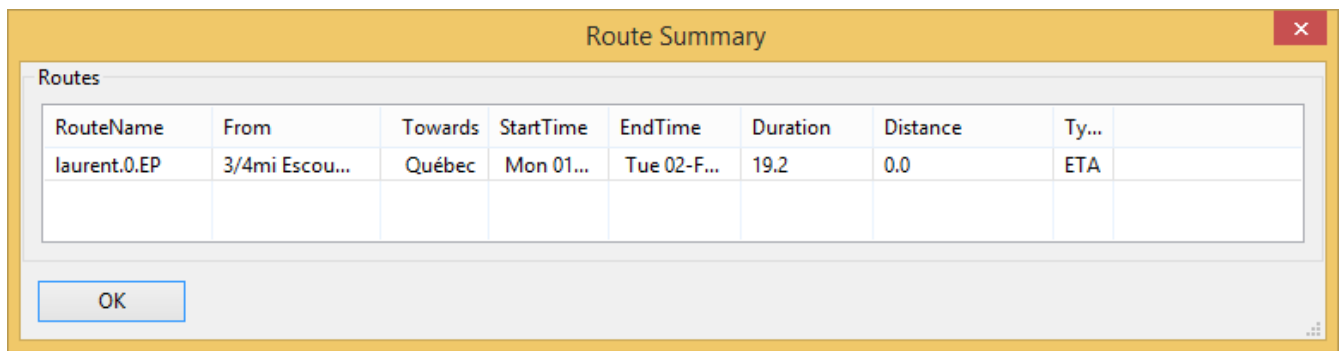


## Information Available

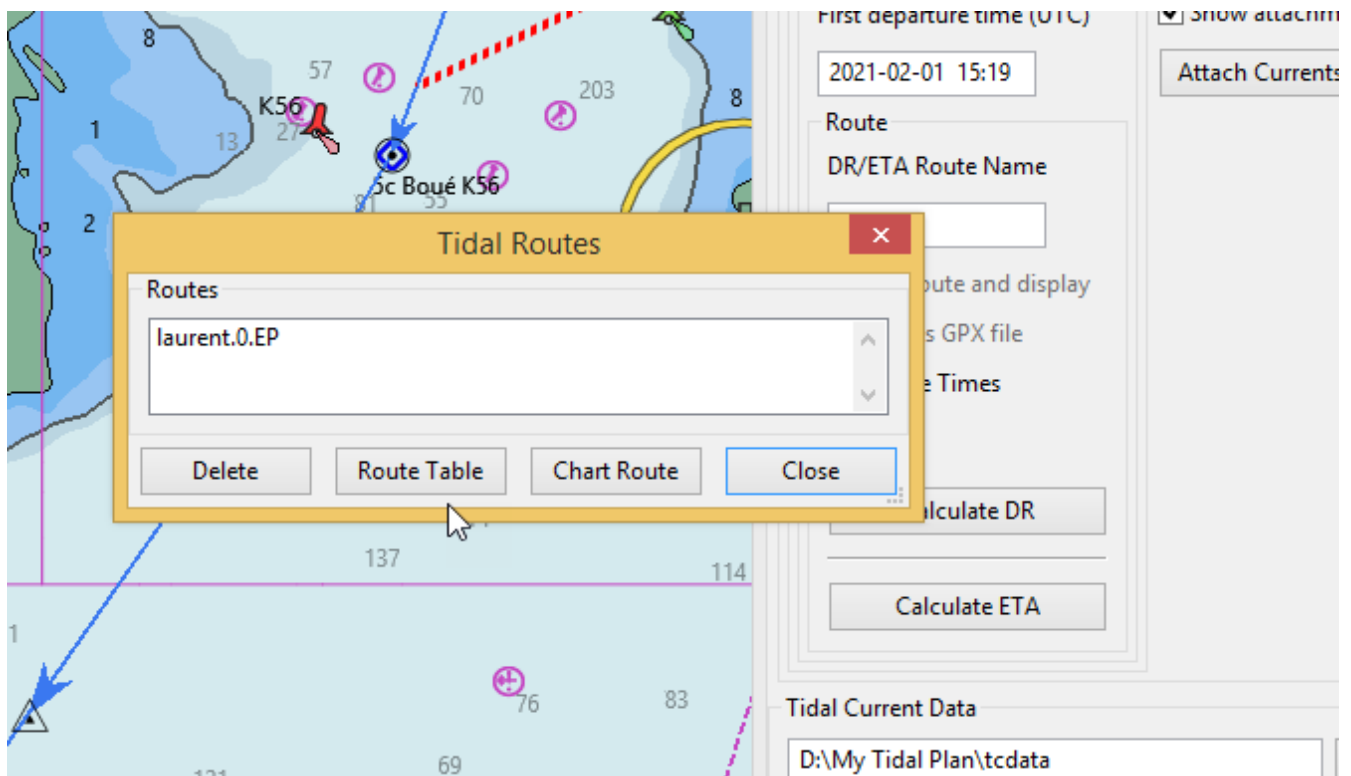
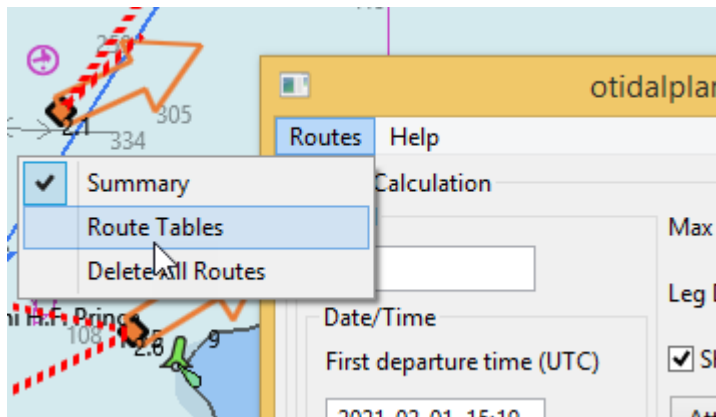
## Summary

Available from the menu:





## Route Table



Tidal Route Table ✕

Properties

Name

Depart From

Destination

Total Distance

Plan Speed

Time Enroute

Departure Time (Y/m/d h:m)

Times shown as ☒ UTC ☐ Local @ PC ☐ LMT @ Location

RouteCalculation Type:

Waypoints

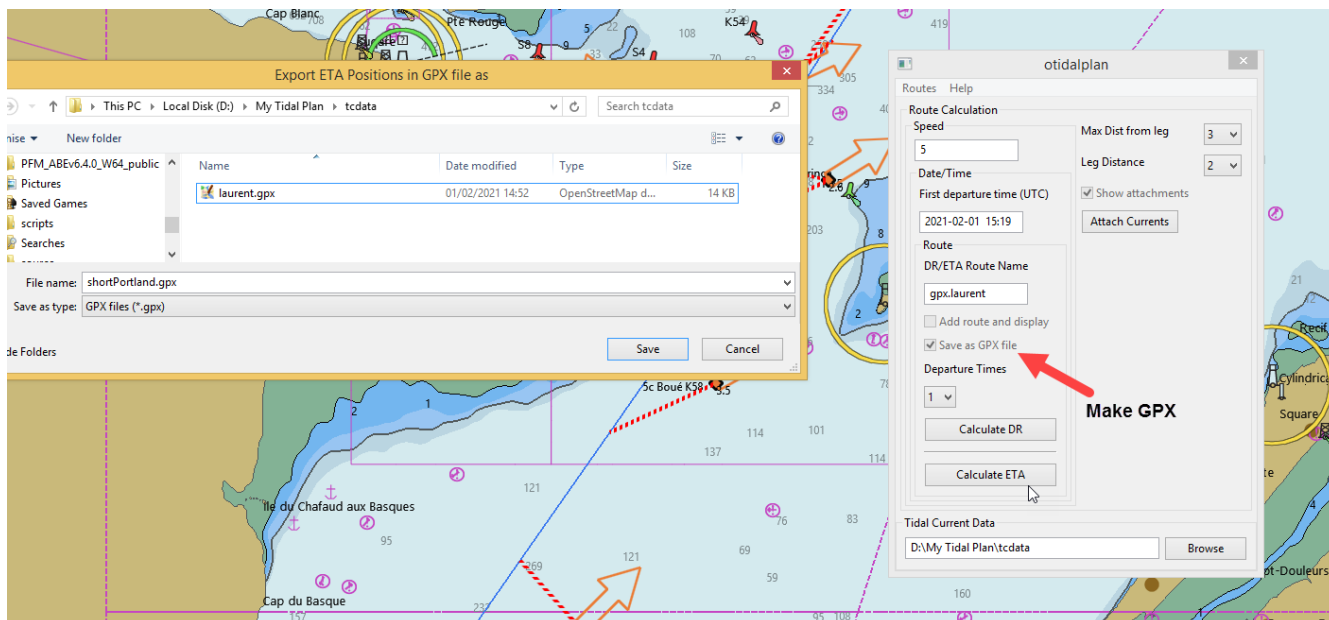
Leg	At Waypoint	Distance	Bearing	Latitude	Longitude	ETA	Speed	CTS	Tidal Set	Tidal Rate
	3/4mi Escou...	----	----	48.3111	-69.3974	Mon 01-Feb-2...	4.2	214	040	0.8
	EPEP1	4.2160	213	48.2520	-69.4540	Mon 01-Feb-2...	4.2	214	040	0.8
	EPEP2	4.2160	213	48.2520	-69.4541	Mon 01-Feb-2...	4.2	214	040	0.8
	EPEP3	4.9683	213	48.1823	-69.5208	Mon 01-Feb-2...	5.0	213	040	0.0
	3/4mi H.F. Pri...	5.7158	201	48.1021	-69.5980	Mon 01-Feb-2...	5.5	201	200	0.5
	EPEP4	0.0	201	48.1021	-69.5980		5.5	201	200	0.5
	5c Boué K56	1.4747	210	48.0791	-69.6110	Mon 01-Feb-2...	5.8	212	200	0.8
	5c Boué K58	1.7346	215	48.0541	-69.6327	Mon 01-Feb-2...	5.9	211	235	0.9
	EPEP5	2.5	215	48.0195	-69.6688		5.9	211	235	0.9
	EPEP6	5.9	215	47.9394	-69.7522		5.9	211	235	0.9
	8c Cap au Chi...	2.5710	206	47.9044	-69.7892	Mon 01-Feb-2...	6.1	205	210	1.1
	EPEP7	3.6	206	47.8498	-69.8286		6.1	205	210	1.1
	7c Cap au Sau...	5.6616	221	47.7650	-69.8902	Mon 01-Feb-2...	6.5	221	220	1.5
	EPEP8	0.5	221	47.7588	-69.8982		6.5	221	220	1.5
	EPEP9	6.5	221	47.6766	-70.0035		6.5	221	220	1.5
	10mi Bass M...	4.2202	215	47.6222	-70.0720	Mon 01-Feb-2...	7.6	207	220	2.7

# Options

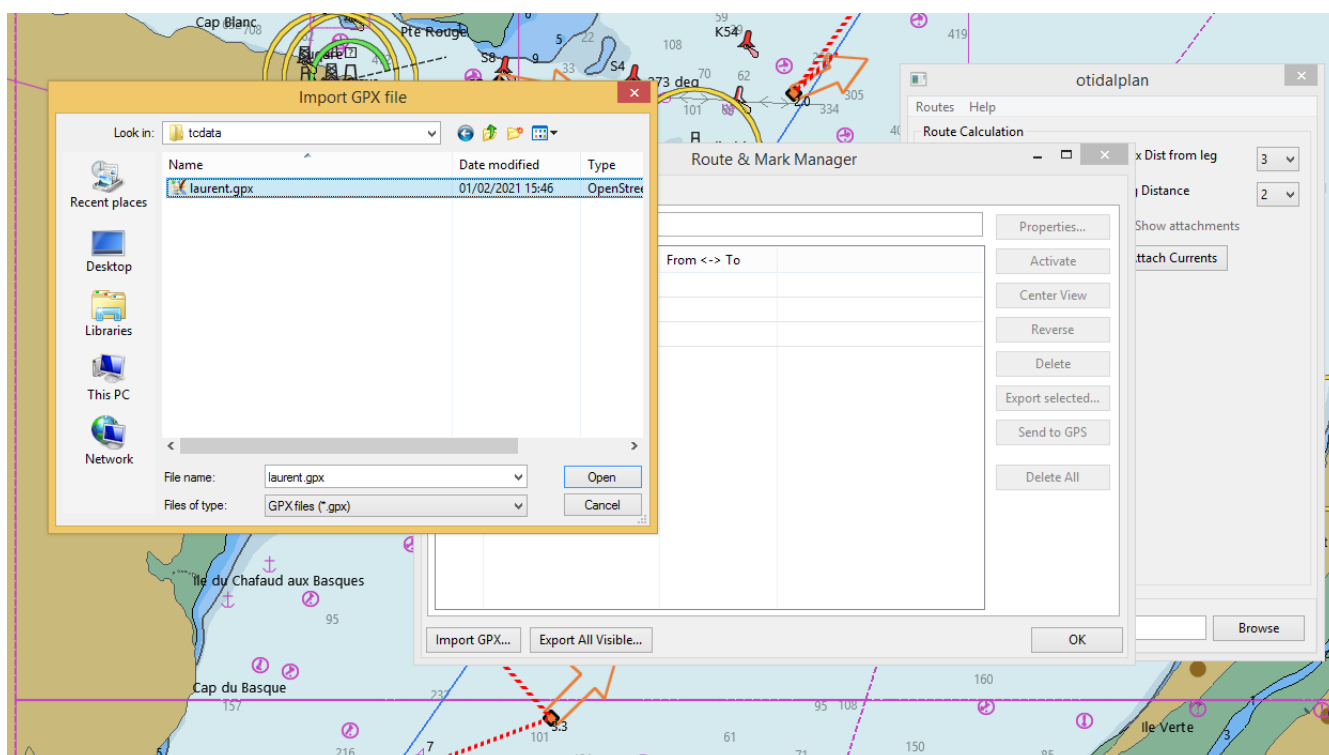
## GPX file

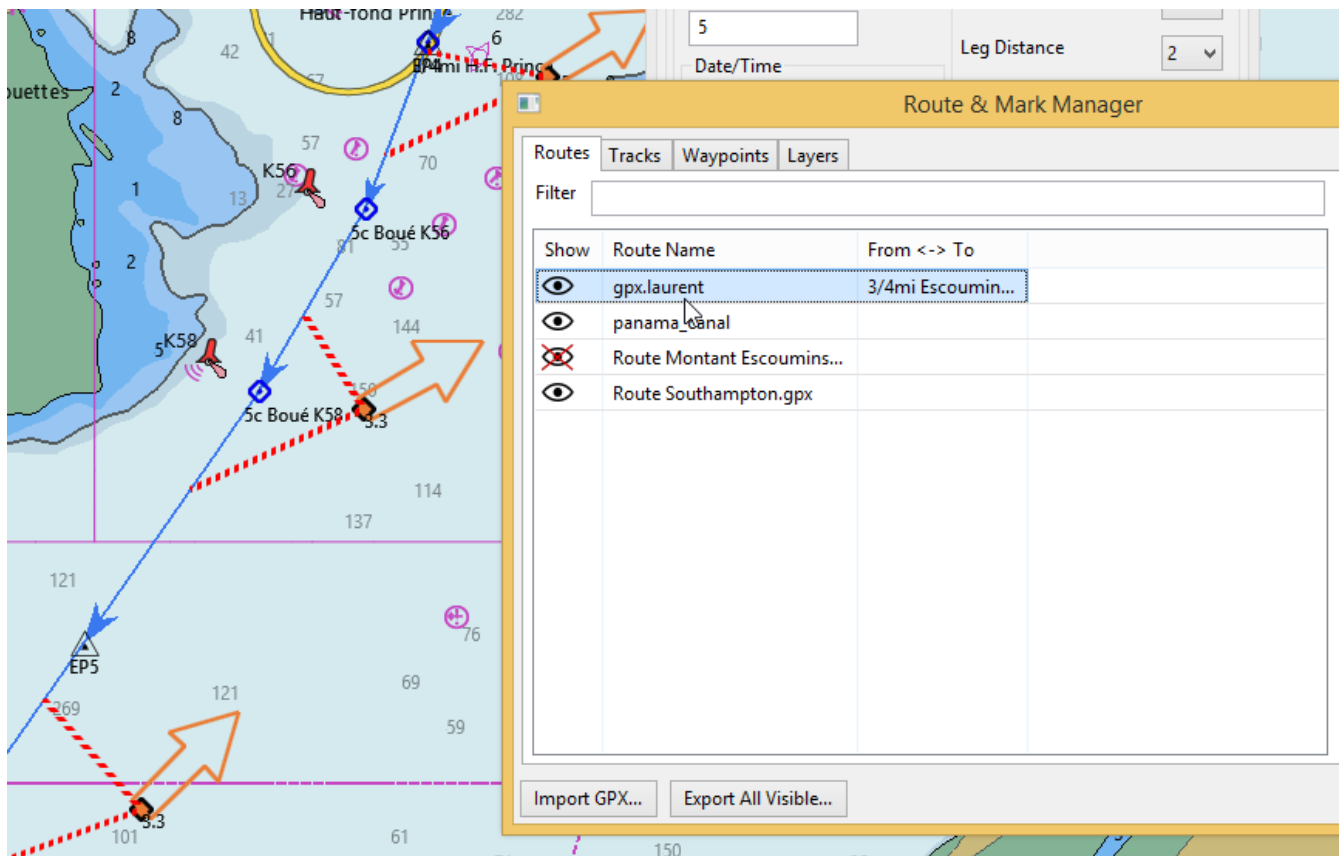
A GPX file of the EP route can be created at the same time as the new route is calculated. Tick the box to allow this.





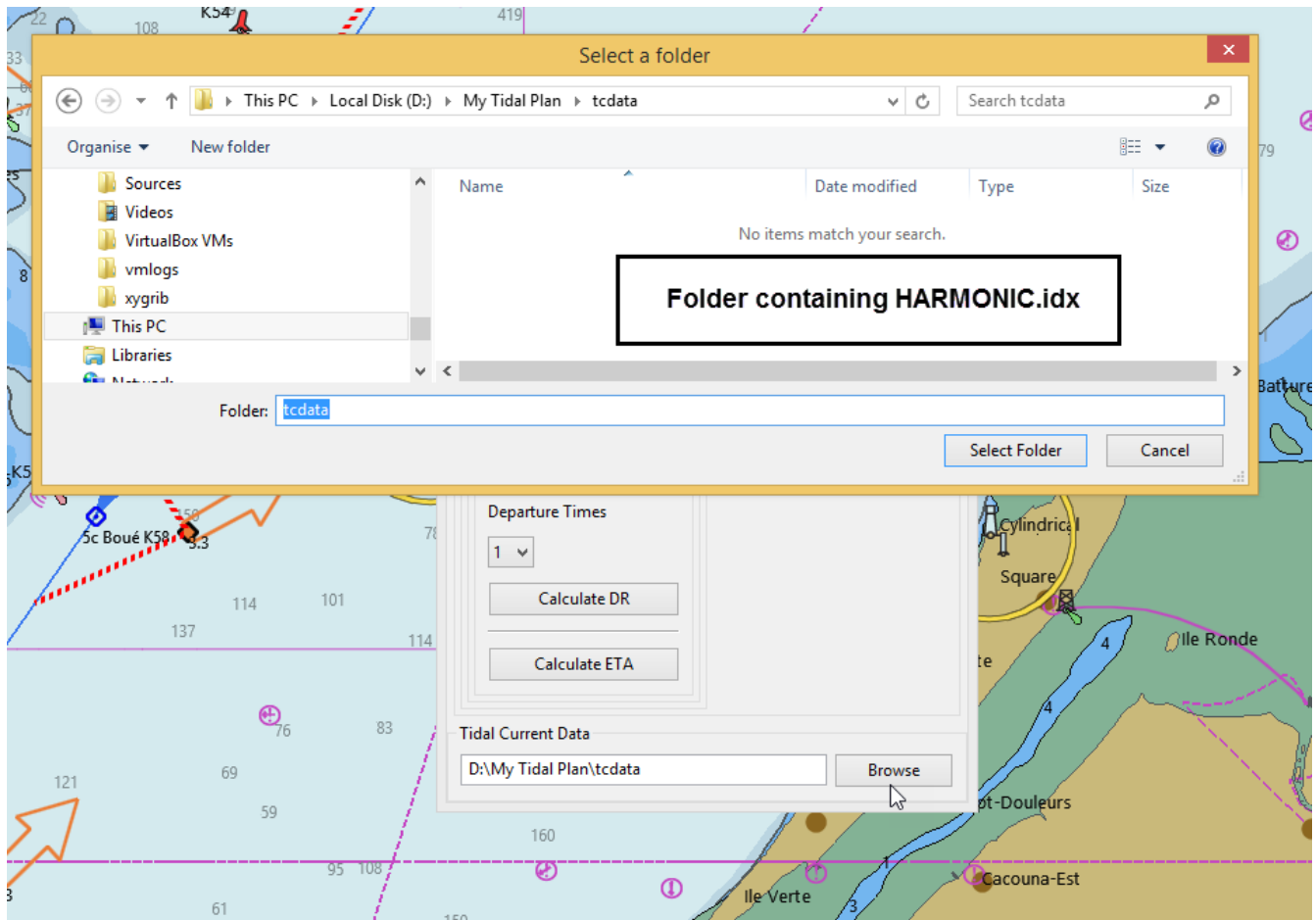
The GPX can be imported into OpenCPN using the Route and Mark Manager





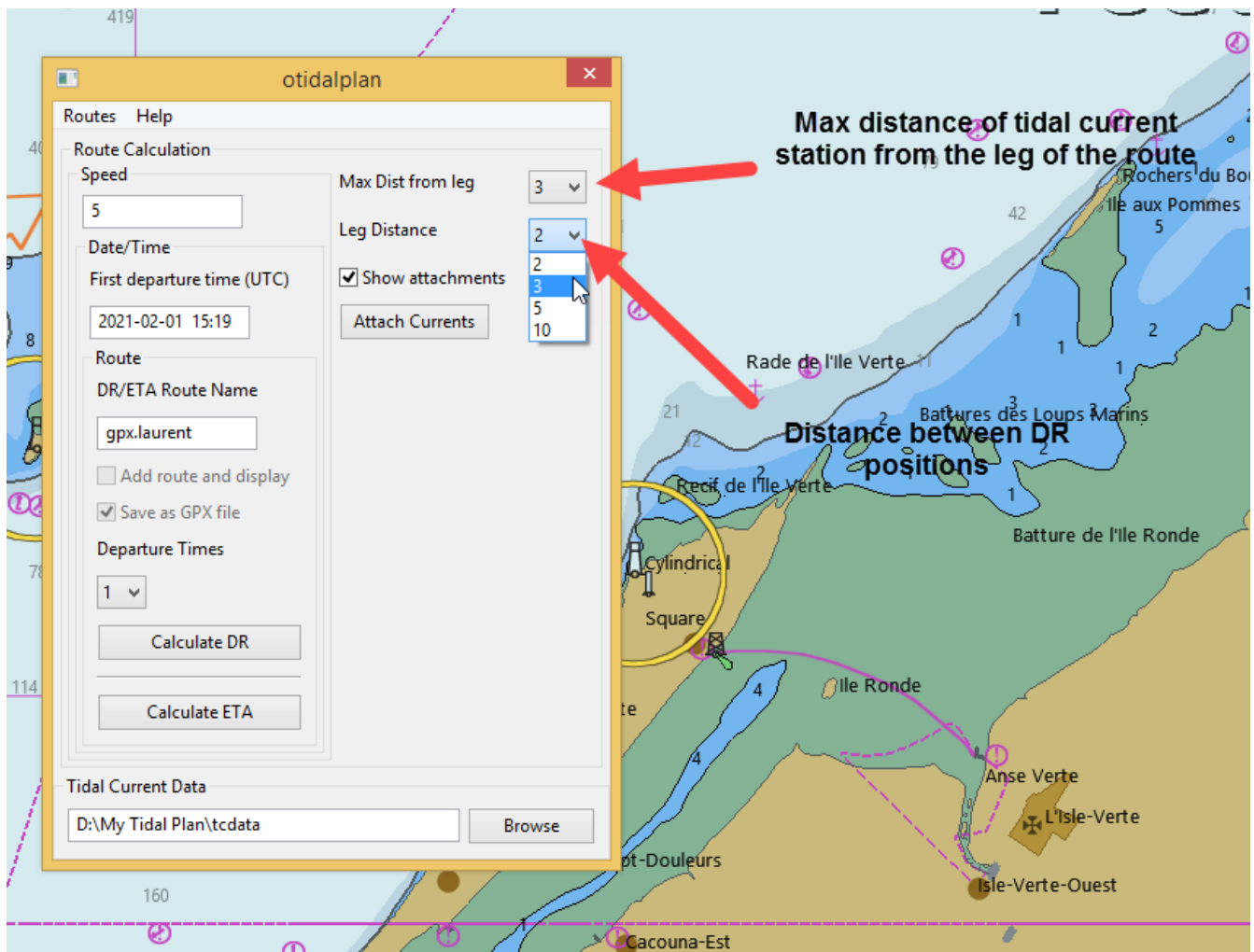
## Tidal current harmonics

The harmonics installed with OpenCPN may not cover the area you are navigating. Another set of harmonics can be used by selecting the folder containing HARMONIC.idx.

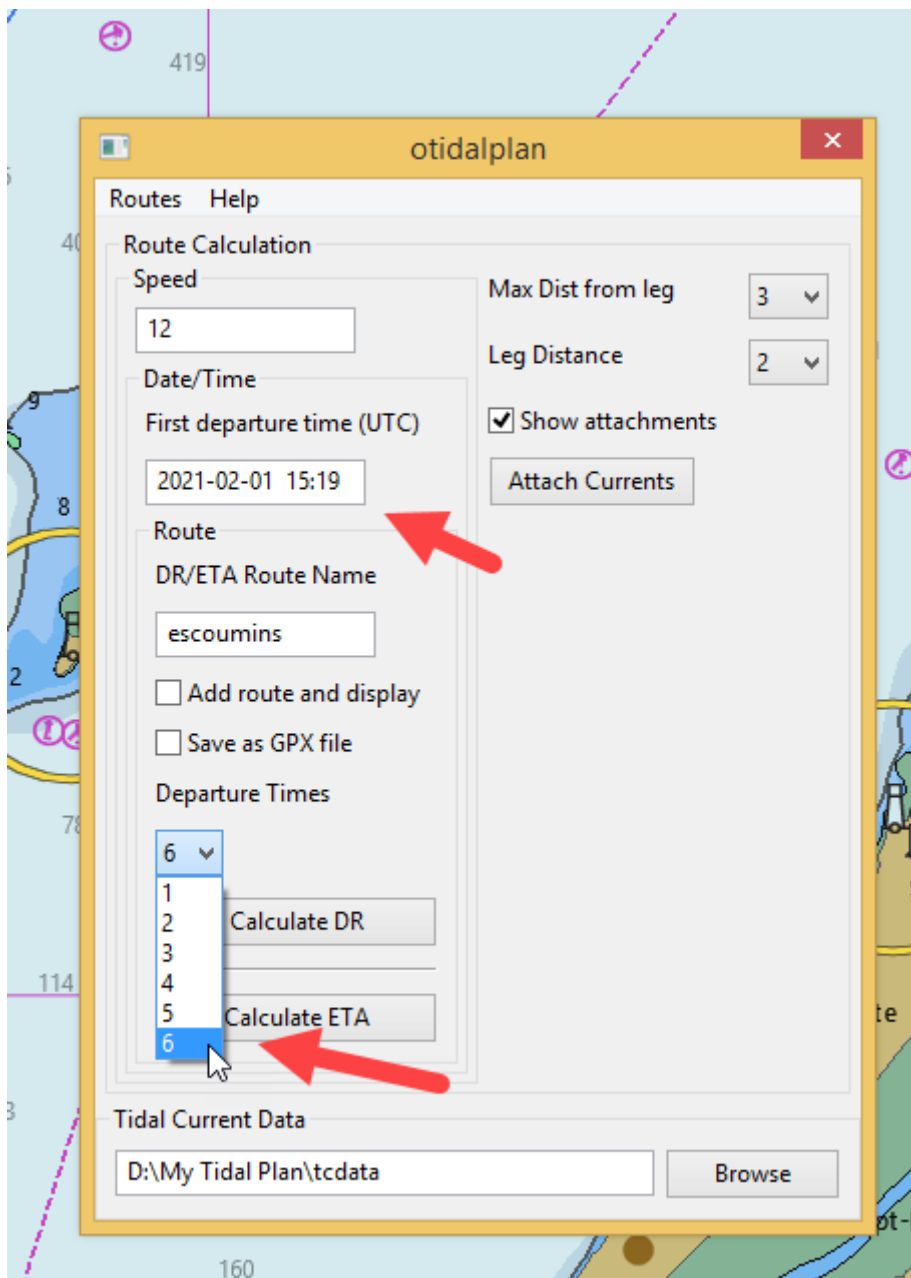


## Adjust accuracy

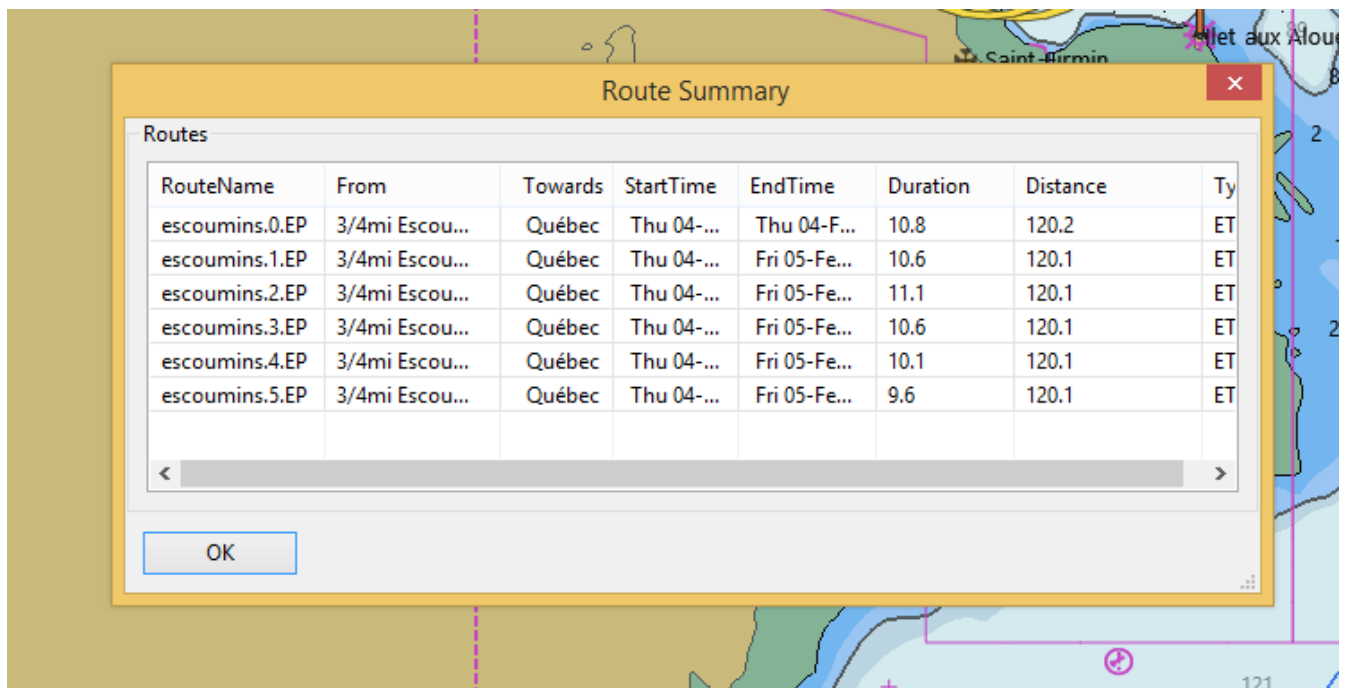
The tidal current stations associated with a route are used based on DR and maximum distance from that DR. By adjusting these two parameters greater accuracy may be achieved.



**Use different departure times**



The Summary table from the menu shows the effect of using different departure times:



Route with EP positions can be charted from the list of routes:

