buell software

SailTokyo - Quick Tour 3

Example: ETCHELLS Worlds 2017

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Version 1.0 - 082017

Content

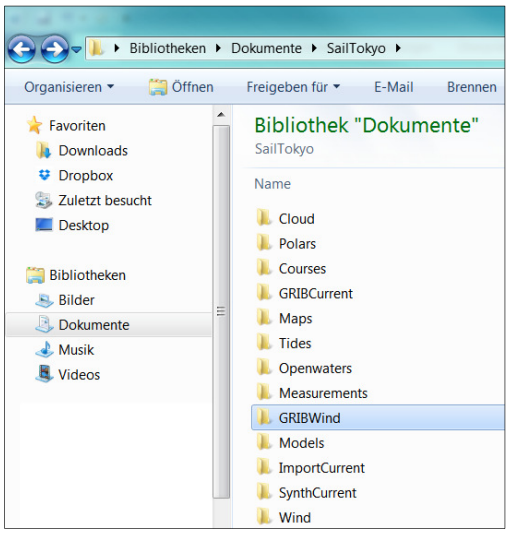
1 Requirements

This tutorial requires the ***SailTokyo*** desktop (Mac or windows) solution and an internet connection during installation.

- Windows installer SetupSailTokyo.exe or
- Mac installer SetupSailTokyo.app (or *.zip)
- No team cloud required

2 SailTokyo installation

- Copy installer to a folder (or desktop) on your computer.
- Double click onto installer and follow instructions (use administrator rights).
- Find ***SailTokyo*** icon on your desktop.
- Double click onto icon and start software for the first time (Internet connection required).
- Leave ***SailTokyo*** (Top menu System- Quit program).
- Open explorer (Windows) or Finder (Mac).
- Find and open folder Documents/SailTokyo/.
- Get familiar with folder structure to know where to copy data (GRIB files…):



SailTokyo **folder on your computer**

3 Prepare *SailTokyo* race analysis

Make sure you got all setups for your location and boat class:

- Select map (Preset SanFrancisco.map)
- Select boat class (Preset ETCHELL.pol)
- Select course type (Preset Simple Beat/Run)

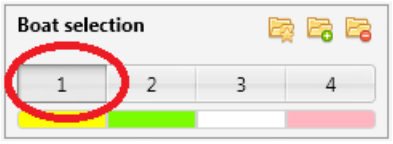
If you need any assistance for preparation or basic usage of ***SailTokyo*** download from our website and read:

- QuickTour-1 : Getting started

4 Prepare GRIB data (Optional)

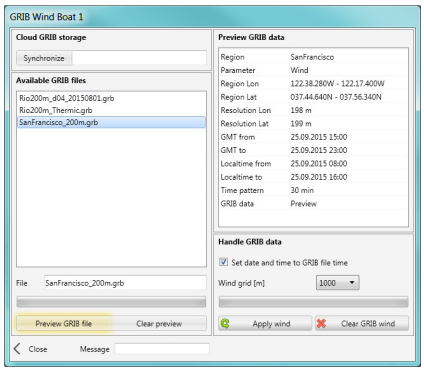
- Get any GRIB-1 wind or current files from your supplier.
- Unzip GRIB files if required.
- Copy GRIB wind into folder documents/SailTokyo/GRIBWind
- Copy GRIB current into folder documents/SailTokyo/GRIBCurrent

5 Load GRIB wind data (Optional)

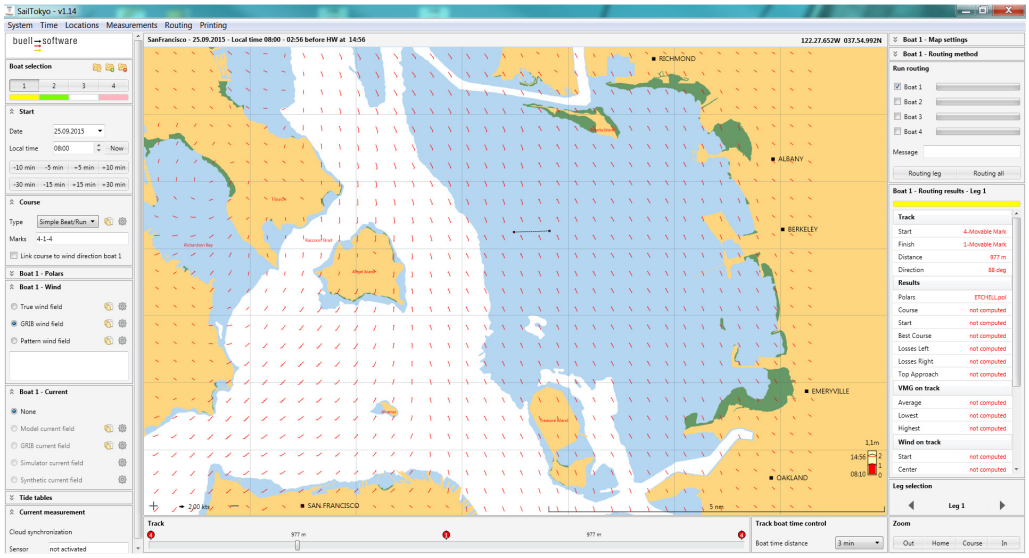


- Make sure Boat 1 is selected (Left panel).

- Open expander Boat 1 - Wind (Left panel).
- Click onto gear wheel to open GRIB wind dialog.

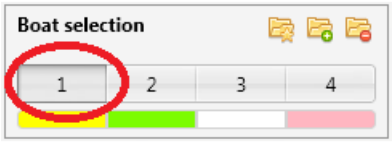


- Find your GRIB wind files in list on left side of dialog.
- Click onto selected GRIB file.
- Press Preview GRIB file and see information about content.
- Setup grid for showing wind arrows (Example 500m).
- Press Apply wind and close dialog.

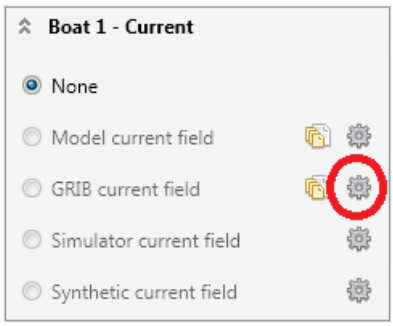


Example GRIB wind file

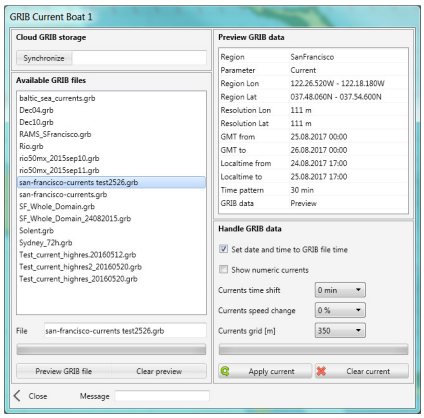
6 Load GRIB current data (Optional)



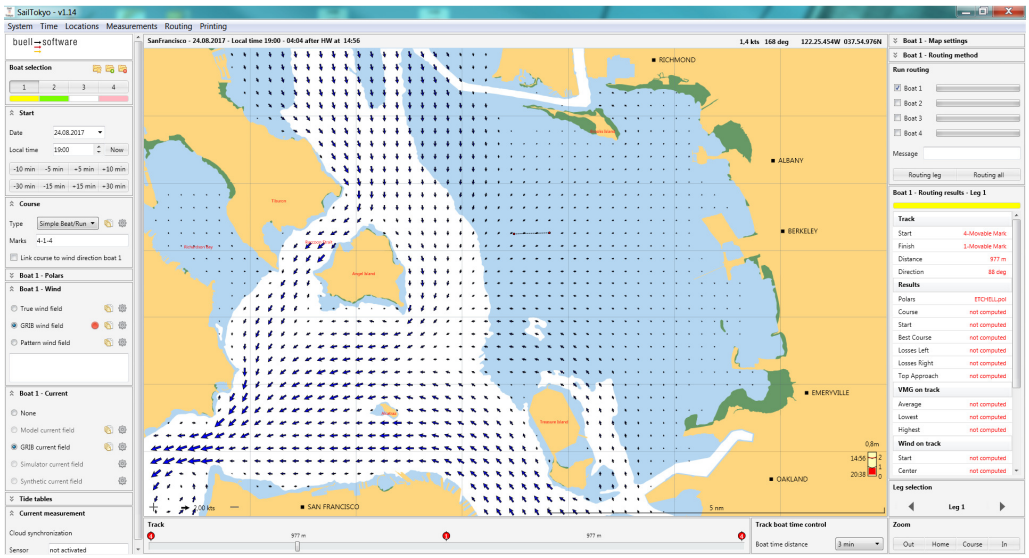
- Make sure Boat 1 is selected (Left panel).



- Open expander Boat 1 - Current (Left panel).
- Click onto gear wheel to open GRIB current dialog.



- Find your GRIB current files in list on left side of dialog.
- Click onto selected GRIB file.
- Press Preview GRIB file and see information about content.
- Setup grid for showing current arrows (Example 350m).
- Press Apply current, wait and close dialog.



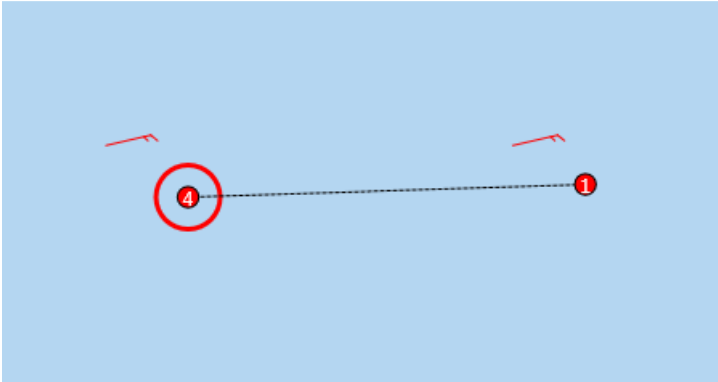
Example GRIB current file

7 Positioning of course

Set the position of the course easily by using mouse gestures (7.1 + 7.2) or by entering exact figures into the input form (7.3).

7.1 Mouse gestures single marks

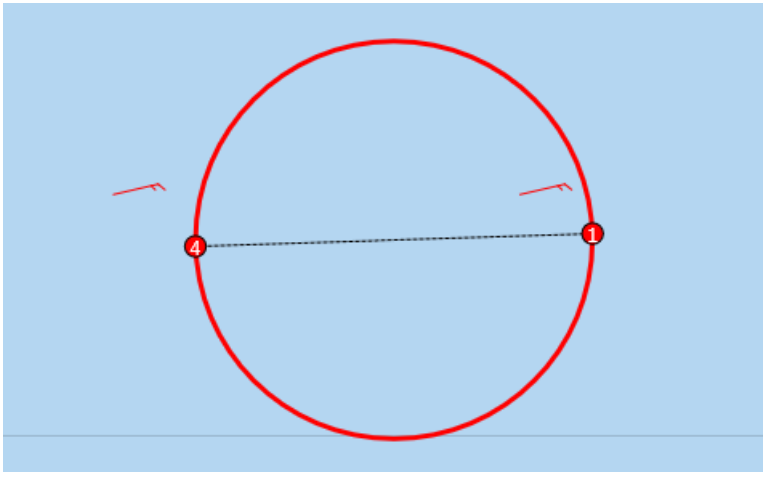
- Double click onto mark (4 or 1) (Left mouse button)
- See red circle around mark
- Press and hold left mouse button
- Move mark to new position
- Release mouse button
- Double click again to finish gesture



Mark 4 is ready to move

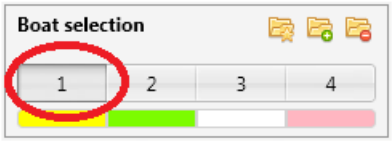
7.2 Mouse gestures entire course

- Double click onto center of course (Left mouse button)
- See red circle around course
- Press and hold left mouse button
- Move course to new position
- Release mouse button
- Double click again to finish gesture

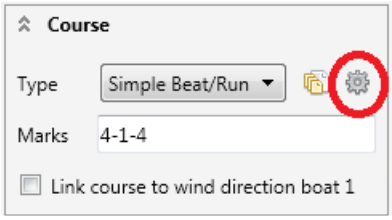


Course is ready to move

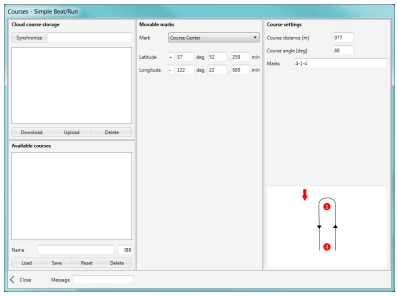
7.3 Input form for course



- Make sure Boat 1 is selected (Left panel).



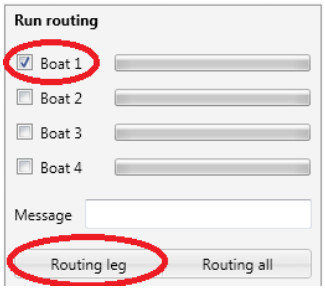
- Open expander Course (Left panel).
- Click onto gear wheel to open course dialog.



- Select mark or course center.
- Enter position as [+/-]ddd:mm.mmm.
- Enter course distance.
- Enter course angle.
- Close dialog and see course on map.

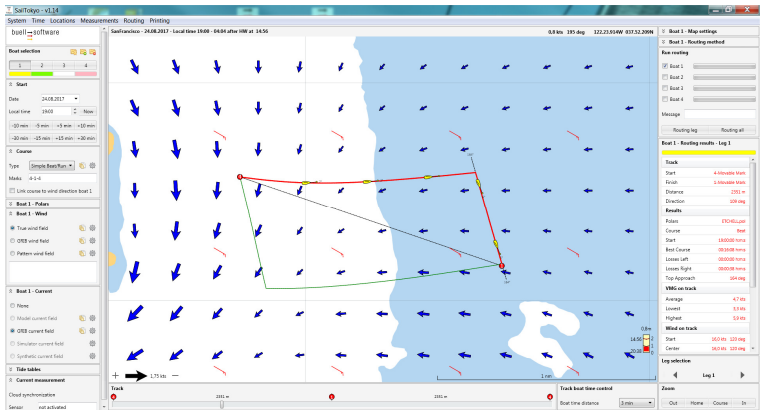
8 Routing

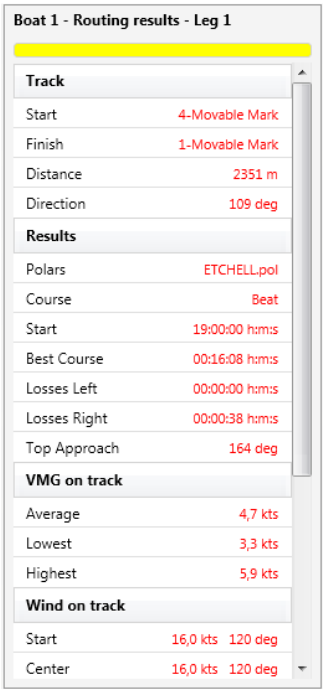
At this stage SailTokyo is ready for routing. Follow next steps to get quick insight into our routing system:



- On right panel select boat 1 for routing.
- Click Routing leg or Routing all

- See results of first leg on map:

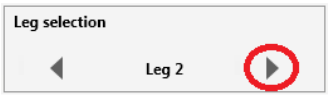




Boat 1 - Routing results - Leg 1

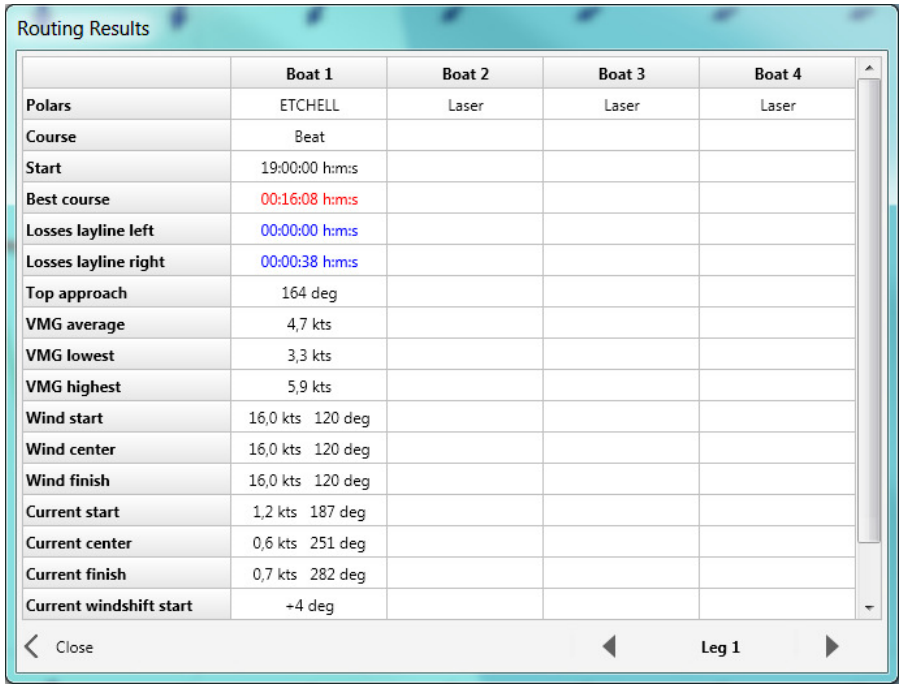
Track	
Start	4-Movable Mark
Finish	1-Movable Mark
Distance	2351 m
Direction	109 deg
Results	
Polars	ETCHELL.pol
Course	Beat
Start	19:00:00 h:m:s
Best Course	00:16:08 h:m:s
Losses Left	00:00:00 h:m:s
Losses Right	00:00:38 h:m:s
Top Approach	164 deg
VMG on track	
Average	4,7 kts
Lowest	3,3 kts
Highest	5,9 kts
Wind on track	
Start	16,0 kts 120 deg
Center	16,0 kts 120 deg

- See list of routing results for boat 1.
- Boat 1 sails upwind from mark 4 to mark 1.
- Note that red line is the fastest course to windward mark.
- Small boats on course display attack angles (in currents) and position after a defined time (here 3 min).
- Green lines are laylines.
- Angle (164 deg) is compass course of final tack.



- Scroll through legs to see results of beat and run.

- Find summary of results at menu Routing - Results:



Routing Results

	Boat 1	Boat 2	Boat 3	Boat 4
Polars	ETCHELL	Laser	Laser	Laser
Course	Beat			
Start	19:00:00 h:m:s			
Best course	00:16:08 h:m:s			
Losses layline left	00:00:00 h:m:s			
Losses layline right	00:00:38 h:m:s			
Top approach	164 deg			
VMG average	4,7 kts			
VMG lowest	3,3 kts			
VMG highest	5,9 kts			
Wind start	16,0 kts 120 deg			
Wind center	16,0 kts 120 deg			
Wind finish	16,0 kts 120 deg			
Current start	1,2 kts 187 deg			
Current center	0,6 kts 251 deg			
Current finish	0,7 kts 282 deg			
Current windshift start	+4 deg			

Close Leg 1

9 Print results

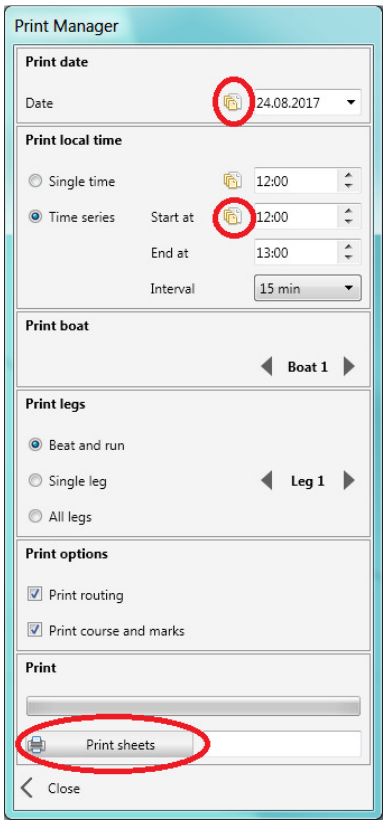
On the water it is quite useful to carry ***SailTokyo*** routing analysis for the day in paper form.

SailTokyo comes with a powerful print manager that enables single sheet printing for a special situation, or printing of time series to cover the whole racing time of a day.

Note that if wind changes through the day (GRIB wind data) ***SailTokyo*** enables repositioning of course marks before the second or further races (That's what the race committee would do):

- Open expander course.
- Set Link course to wind.

Now open print manager in main menu Printing - Print Manager. As an example we do a time series print:



- Check Date for printing. Use copy button to set day to current time setting of map.
- Check Time for first sheet. Use copy button at Start at to set current map time.
- Set end time for series printing at End time.
- Set time between sheets at Interval.
- Here we will get 5 sheets between 12:00 and 13:00.
- Finally press Print sheets.

10 Example series printout

SailTokyo - SanFrancisco

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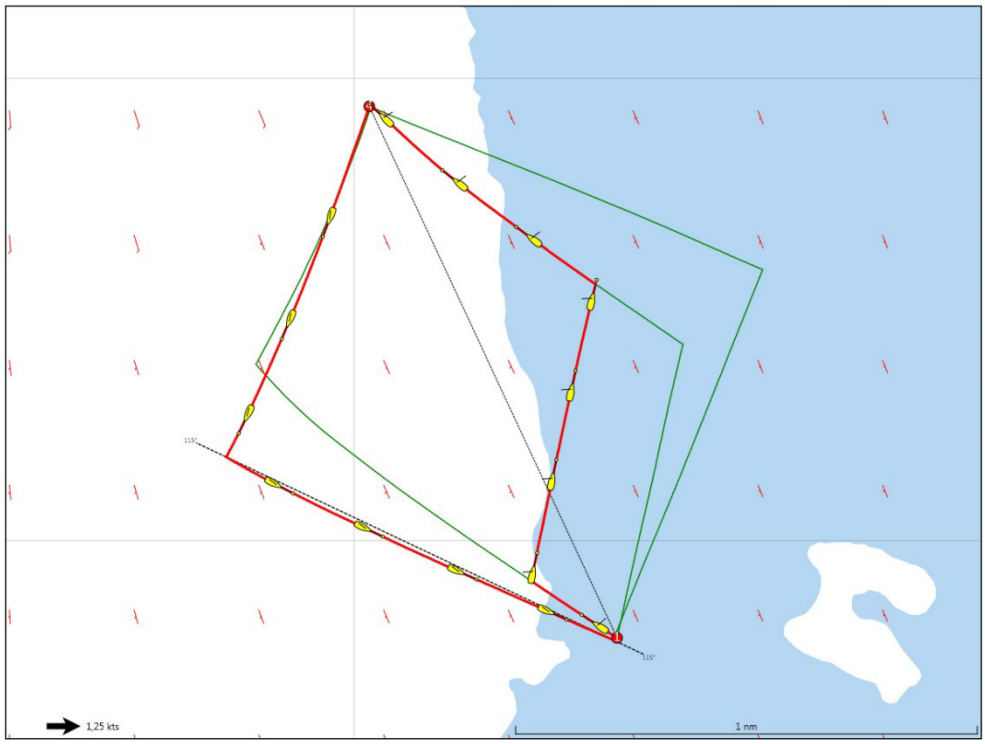
Polars	ETCHELL.pol			
Start Time	25.09.2015	08:00:00		
Wind GRIB (C)	6,4 kts	156 deg	SanFrancisco_200m.grb	
Beat speed	4,4 kts		Run speed	4,0 kts
Tack angle	44 deg		Gybe angle	146 deg
Tack time losses	4 sec		Topmark approach	115 deg
Leg 1	2349 m	155 deg		
Best Beat	00:23:31 h:m:s		Best Run	00:22:16 h:m:s
Losses left side	00:01:34 h:m:s		Losses left side	00:01:42 h:m:s
Losses right side	00:00:00 h:m:s		Losses right side	00:00:10 h:m:s
			Tides SanFrancisco	



Page 1 at 08:00 (GRIB wind)

SailTokyo - SanFrancisco

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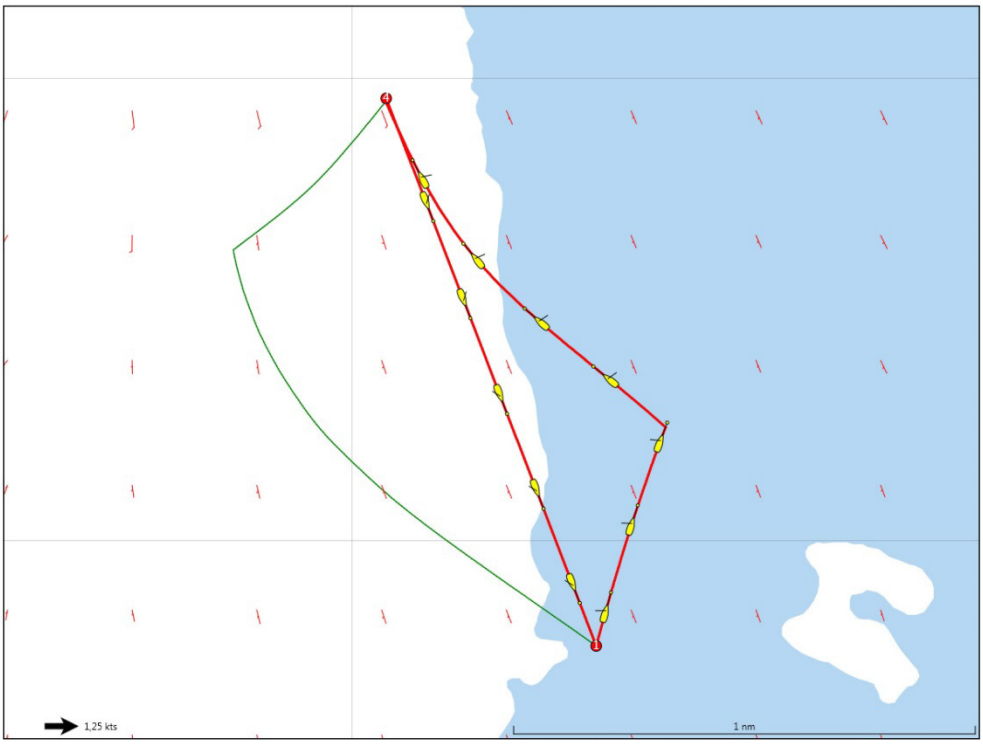
Polars	ETCHELL.pol			
Start Time	25.09.2015	08:30:00		
Wind GRIB (C)	6,2 kts	161 deg	SanFrancisco_200m.grb	
Beat speed	4,3 kts		Run speed	3,9 kts
Tack angle	44 deg		Gybe angle	145 deg
Tack time losses	4 sec		Topmark approach	-1 deg
Leg 1	2349 m	159 deg		
Best Beat	00:17:03 h:m:s		Best Run	00:21:35 h:m:s
Losses left side	00:00:00 h:m:s		Losses left side	00:03:11 h:m:s
Losses right side	00:00:00 h:m:s		Losses right side	00:00:00 h:m:s
			Tides SanFrancisco	



Page 2 at 08:30 (Note automatic repositioning of course marks due to wind shift)

11 Finally

This paper is just a brief look onto the functionality of ***SailTokyo***.

Find more on our website soon!