

SailTokyo - Quick Tour 1

Getting started

buell software gmbh Esmarchstraße 53 24105 Kiel

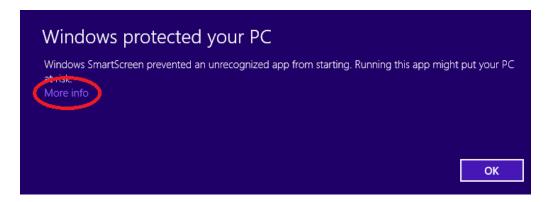
Content

1	Install SailTokyo	1
2	Start application SailTokyo	1
3	Screen layout	2
4	Setup wind	3
5	Zoom to course	3
6	Setup boats	4
7	First routing	5
8	Wind pattern	6
9	Import measured current	8
10	Current field simulator	.10
11	Finally	.12

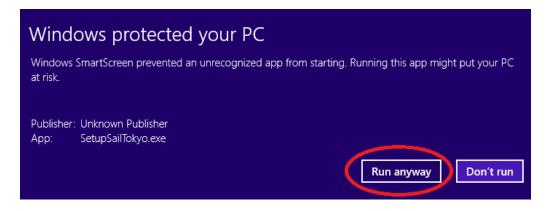
1 Install SailTokyo

- Get installer SetupSailTokyo.exe (Send mail to info@buell-software.com)
- Copy installer onto your computer (C:\Temp...)
- Run installer

If installing on Windows 10 with active UAP the following screen interrupts installation procedure:

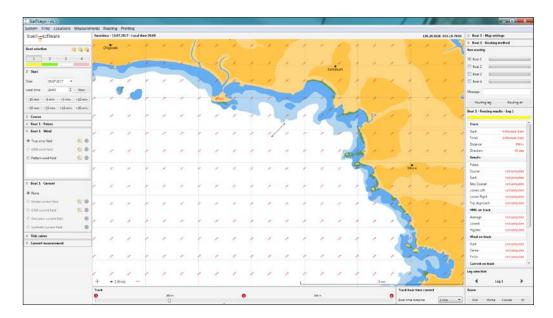


Click onto More info and press Run anyway:



2 Start application SailTokyo

- Find icon on your desktop
- Click onto icon and start program SailTokyo:



Screen after first start of SailTokyo

3 Screen layout

The screen is organized in three panels:

■ Left panel: "All you can put into the water"

Middle: Map area

Right panel: Routing and analysis

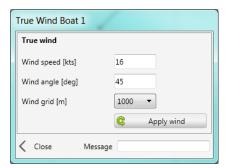
Note that left panel supports up to 4 boats (identified by different colors). All data of left panel is linked to the selected boat.

Data displayed in the map area is also linked to the selected boat (except routing results).

4 Setup wind



- Click onto small gear wheel to open true wind setup dialog.
- Note that all gear wheels open additional dialogs.



- Enter wind data.
- Press Apply wind.



- Click onto small folder to copy selected wind settings to all boats.
- Note that small folders beside gear wheels always copy data of selected boat to all other boats.
- Now the 4 boats do have the same true wind settings.

5 Zoom to course



- Find zoom options bottom right on screen.
- Click Course to zoom to course.

6 Setup boats

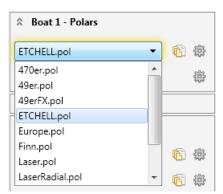
SailTokyo supports some boat polars. These polars may be modified and stored in team data area later. Before usage polars have to be downloaded from master data storage.



- Open expander Boat 1 Polars.
- Click onto gear wheel right of master polars.



- Now Master Polars dialog opens.
- Click onto Synchronize to download master polars.
- See available polars in list.
- Close form.



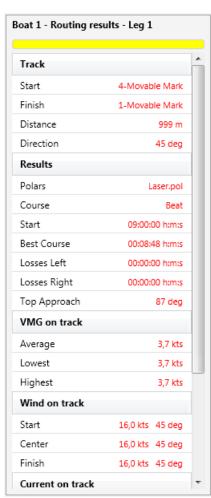
- Back in main screen open list of polars and select boat.
- See name of selected boat polars in selection box header.
- Copy polars to all other boats by clicking small folder.

7 First routing

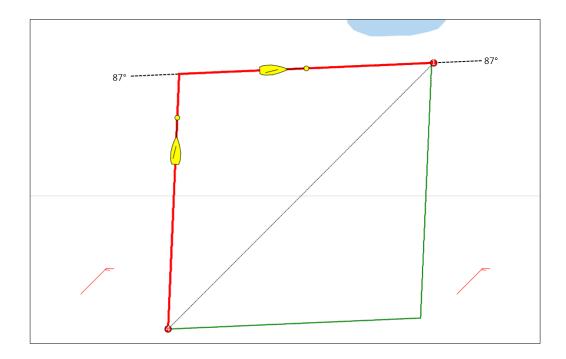
After setup wind and boat *SailTokyo* is ready for very simple routing now. Look onto the right panel expander Run routing:



- Select boat 1 for routing.
- Click Routing leg.

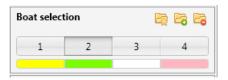


- See routing results for boat 1.
- Boat 1 sails upwind from mark 4 to mark 1.
- Note that red line is the fastest course to windward mark.
- Small boats on course display attack angles (in currents) and position after a defined time (here 3 min).
- Green lines are laylines.
- Angle (87 deg) is compass course of final tack.



8 Wind pattern

Now boat 2 gets a wind pattern to compare pattern against true wind of boat 1.

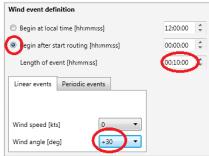


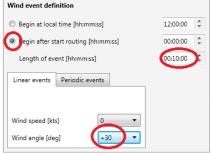
- Select boat 2 in expander Boat selection.
- Note different colour of boats.



 Click onto gear wheel Pattern wind field to open dialog for editing wind patterns.

Each wind pattern consists of one or more wind events (Like shifts or speed changes). To keep it simple add a single 30 deg right shift to the pattern. Look at the wind event definition expander:









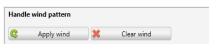
- Give pattern a time length of 10 minutes to build up.
- Set wind angle to +30 deg.



Press Add in List events of wind patterns expander and see event in list.



- Give pattern an name (MYPATTERN) and press Save.
- See pattern in list.



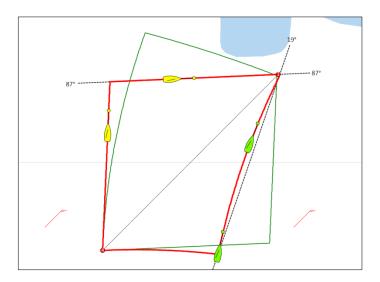
Press Apply wind and Close dialog.

Boat 1 and 2 do have different wind situations during beat course now. Next step will be routing of 2 boats simultaneously.



- Select boat 1 and 2 for routing.
- Click Routing leg.
- Note that list of Routing results is linked to selected boat.
- Selecting boat 1 lists results of boat 1.

The graph shows routing results leg 1 of both boats identified by their colors. Boat 2 (Green) sails into the upcoming wind shift and benefits from right side of course.



Compare track data of both boats. Open results form (Main menu Routing-> Results):

Laser Beat 09:00:00 h:mis 00:08:00 h:mis 00:01:32 h:mis 00:00:00 h:mis
mis 09:00:00 himis 00:08:00 himis 00:08:00 himis mis 00:01:32 himis 00:00:00 himis
mis 00:08:00 himis mis 00:01:32 himis mis 00:00:00 himis
m:s 00:01:32 h:m:s m:s 00:00:00 h:m:s
m:s 00:00:00 h:m:s
19 deg
4,1 kts
3,1 kts
4,7 kts
deg 16,0 kts 45 de
deg 16,0 kts 57 de
deg 16,0 kts 69 de
ted not computed
ted not computed
te

- Sailing in the right shift on the right side boat 2 is 48 seconds faster than boat 1.
- Boat 2 would lose 1 minute 32 seconds if sailing on the left layline.

9 Import measured current

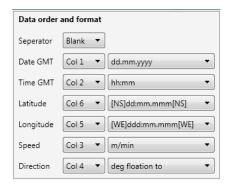
As simple example for sailing in currents we import a data file containing measured data (Synthetic) from Enoshima.

Find folder Documents\SailTokyo\ImportCurrent\ on your computer.

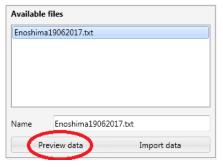
Copy file Enoshima19062017.txt (Request file at info@buell-software.com) into that folder.

Go to main menu Measurements -> Import Data and open dialog Import Measurements. The import tool needs to know which data in which format comes

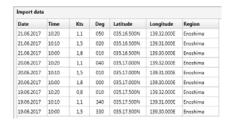
into which column. Look carefully into the data file and setup data order and format as shown here:



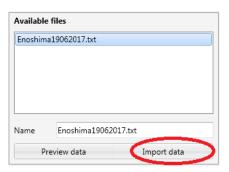
 Import any current data as text file containing data in single rows using common formats.



Select file and click Preview data.

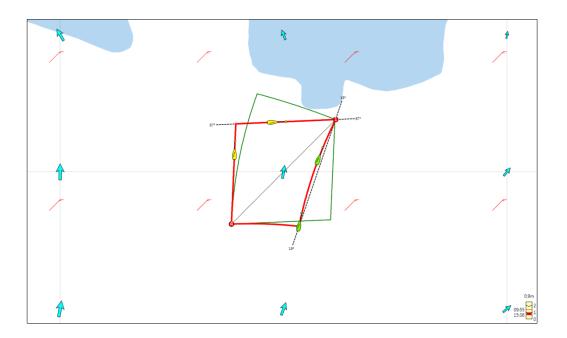


Check data in preview list.



Finally import data.

Zoom out to see 9 positions with measured current data (cyan arrows):



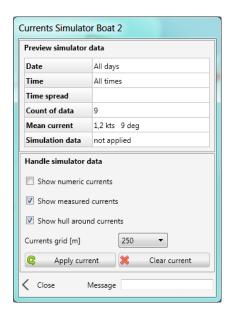
10 Current field simulator

SailTokyo supports interpolation of current fields using measured currents. Powerful data filtering enables various perspectives on measured data (Tutorial coming soon).

As simple example we use the 9 measured data points for a field simulation.

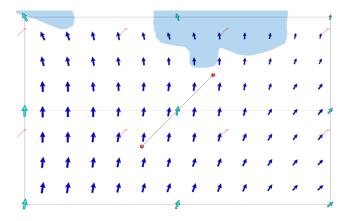


- Go to left panel and click onto gear wheel of Simulator current field.
- Open dialog Currents simulator.

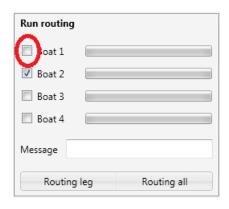


■ Just click Apply current and close dialog.

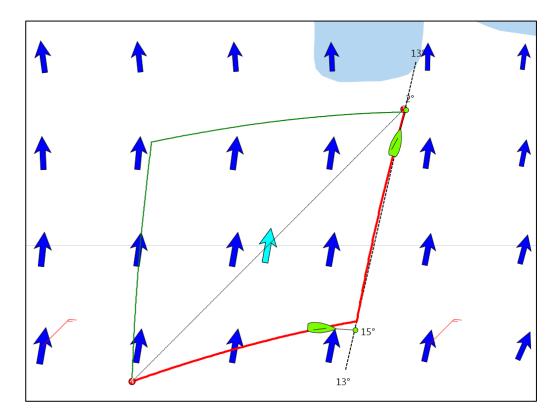
Interpolated current field:



For analysis of sailing in current we do the routing for boat 2 only:



- Unselect boat 1.
- Click Routing leg.
- Zoom in a bit.



This graph shows the upwind routing of a laser dinghy in a wind shift right together with a measured current field.

See the attack angle of 15 deg with current from the right side.

11 Finally

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

Find more on our website soon!