Test Case TC111 Race Start - >45 deg wind shift / misuse robustness

Belongs to Plan(s): TP5 dashboard_tactics...

Belongs to Suite(s): TS41 Race Dash functi...

Case Type: Functionality

Label(s): *click to add Label(s)*

Test Quality: **EXCELLENT** Defects Closed Fixed

Assign To: *click to add Assign To*

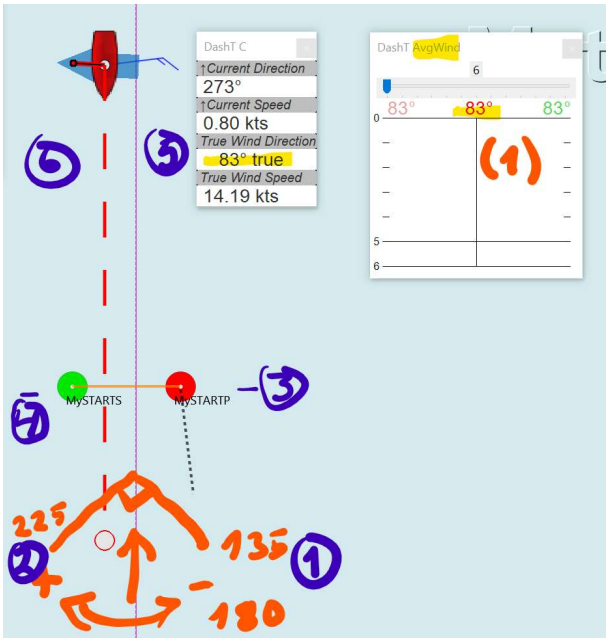
Case Priority: Medium

Estimate: *click to add Estimate*

Is Automated

Precondition

Define and use a user defined start line, which you can move easily around. It shall be located either over the longitude 0 or longitude 180 - this is to stress the calculations. After, using NMEA Simulator to feed the location and wind information, arrange the boat and the start line like this, strictly from West to East (direction will be then 90 degrees):



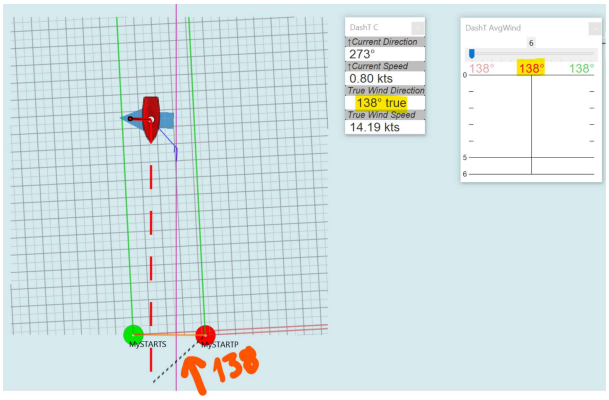
(1) You need Average Wind instrument. Please note that it is not a good idea to start too far from the test target range, The average wind instrument is very slow with its over six minutes integration time. Rather, set the NMEA simulator near the test angle before starting OpenCPN application and only then dial into it the requested movement.

(1) (2) (5) (6) These are the normal use cases, for north bound start (5) [315 degrees] and (6) [45 degrees] and for south bound start (1) [135 degrees] and (2) [225 degrees] - the operation range is 45 degrees both for veering and backing, thus 90 degrees total.

Steps Click "**Tab**" or "**Shift + Tab**" to navigate grid

1 Start the system and make a wind shift of 6 degrees minimum which crosses (1).

For example, at the moment of 138 degree wind direction, the directional grid and the layline are still there but quite at the limit, like this:



When the average wind arrives to 135 degrees the start area directional grid appears or disappears, depending to which direction the wind shifts across the tests limit. Same thing for the laylines: when you are in operational range they are drawn, when not they are not rendered.

2 Repeat step (1) for 225 degrees.

Same condition as in (1) but across the 225 degrees.

3 Move the wind to East so that it crosses, progressively across the 90 degrees line (i.e. the start line).

There shall be no laylines appearing, nor the directional grid for the start area. The Wind Bias line should move across the 180 degrees without disappearing.

4 Repeat (3) but in West (across the 270 degrees).

Same success criteria as in (3)

5 Move now wind to North sector (you need to inverse the waypoints of the startline, with Starboard and Port name symbol letters, respectively) and repeat the step (1) but across the 45 degree limit.

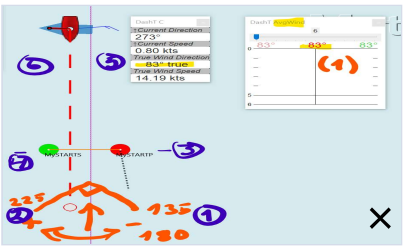
Same success criteria as in (1)

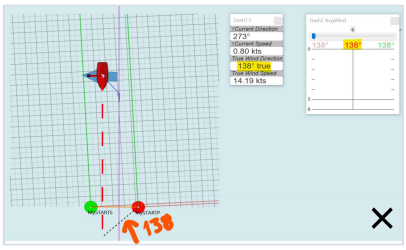
6 Repeat step (10 but across the 315 degree limit.

Same success criteria as in (1)

Add Step

Attachments





Add Attachments

RESULTS	DEFECTS	REQUIREMENTS

Status	Test Plan Run	Assigned To	Updated At↑	Actions
✔ Pass	TPR89 race_start_startline_gr...	Petri Makijarvi	about 2 hours ago	

ACTIVITY	HISTORY	COMMENTS

TODAY

Petri Makijarvi Updated Step S304
about 2 hours ago / Jul 11, 2020

Petri Makijarvi Updated RunResultStep SR2345
about 2 hours ago / Jul 11, 2020

Petri Makijarvi Updated Requirement RQ54
about 2 hours ago / Jul 11, 2020

Petri Makijarvi Updated Requirement RQ54

about 2 hours ago / Jul 11, 2020

Petri Makijarvi Created Requirement RQ54

about 2 hours ago / Jul 11, 2020