



## Test Case

## TC48 Test TW Calc with SOG

**Belongs to Suite(s):** TS18 NMEA simulator ...**Case Type:** Functionality**Label(s):** windows**Test Quality:** 😊 **EXCELLENT** Defects Closed Fixed**Assign To:** Petri Makijarvi**Case Priority:** Medium**Estimate:** 10**Is Automated****Precondition**

This test case is a continuation of test case TC47 and should not be executed without it being executed first.

**Steps**

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

- 1 If the NMEA Simulator is still running, stop it.



- 2 Modify the set of sentences to be sent out for the SOG test:

Options

General NMEA0183 NMEA2000 Track Limits

NMEA0183 Port: COM29 ☒ Use list


NMEA0183 baud rate: 4800

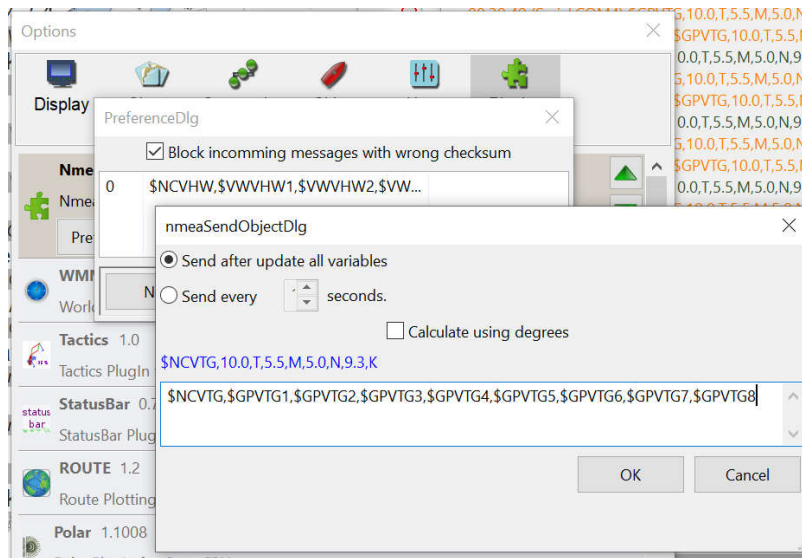
NMEA0183 HDX send delay (ms): 1000


NMEA0183 sentences to be sent

HDG	<input type="checkbox"/> Heading	RSA	<input type="checkbox"/> Rudder Sensor Angle	MWD	<input type="checkbox"/> (True wind info)
HDT	<input checked="" type="checkbox"/> True heading	MTW	<input type="checkbox"/> Mean Temperature of Water	MWV	<input checked="" type="checkbox"/> (Relative wind info)
GLL	<input checked="" type="checkbox"/> Geographic Position	DPT	<input type="checkbox"/> Depth of Water	MWV	<input type="checkbox"/> (True wind info)
RMC	<input type="checkbox"/> Recomm. Min. Nav. Info.	VHW	<input checked="" type="checkbox"/> Water speed and heading	VWR	<input type="checkbox"/> (Relative wind info)
GGA	<input checked="" type="checkbox"/> Global Pos. System Fix Data	RPM	<input type="checkbox"/> Engine RPM		
VTG	<input checked="" type="checkbox"/> Ground speed				
ZDA	<input checked="" type="checkbox"/> Time,date,UTC,dmy,time zone				




- 3  (If you are using July 017 edition of NMEA Simulator - skip this step) This step is optional and only necessary with NMEA Simulator March 2019 edition, we need to compensate its interpretation of VTG sentence with NMEA Converter in OpenCPN as follows:



- 4  Prepare the Tactics module to make TW calculations on SOG data instead of STW data (which will not be available now, be attentive on this; we test here two project requirements at once):




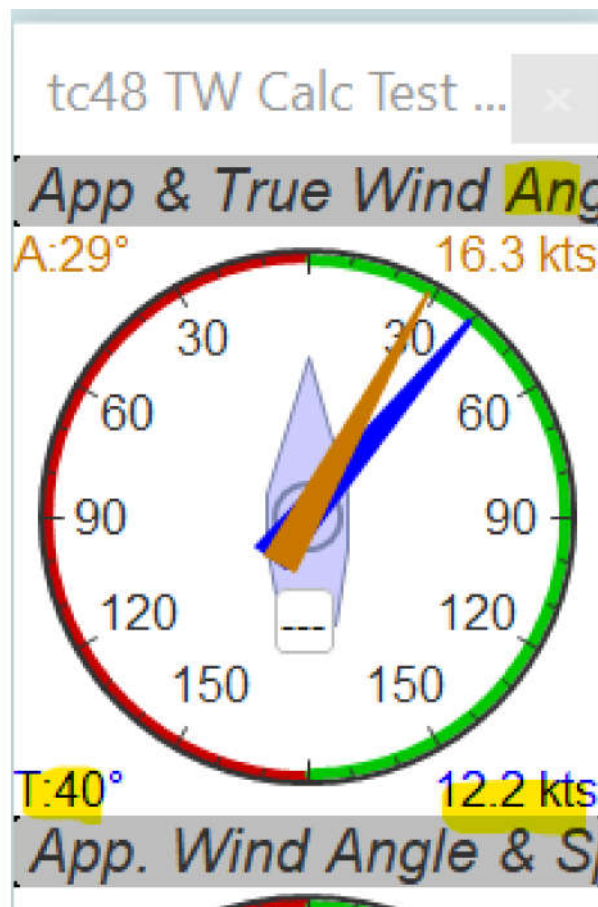
- 5  Start the "run" on NMEA emulator. The test dashboard window should show the values now as follows:

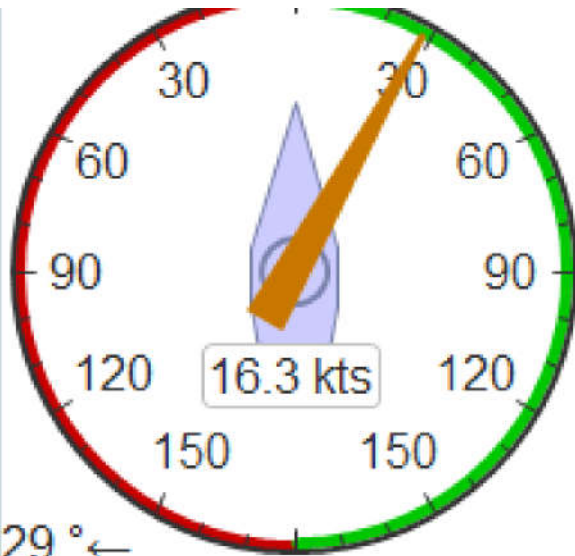
TW Calc Test	
True HDG	
10° true	
STW	
---	
SOG	
5.00 kts	
App. Wind Speed	
8.30 m/s	
App. Wind Angle	
29°<	
True Wind Speed	
6.17 m/s	
True Wind Direc	
50° true	

Note that between the previous test case (STW) and this one, the STW value should disappear, otherwise the Watchdog in Dashboard is not working. Otherwise, observe the values for correctness.

 PASS or FAIL

- 6  Add a second test window which contains all the dials which have true wind data on them and verify that the values indicated on yellow appear:





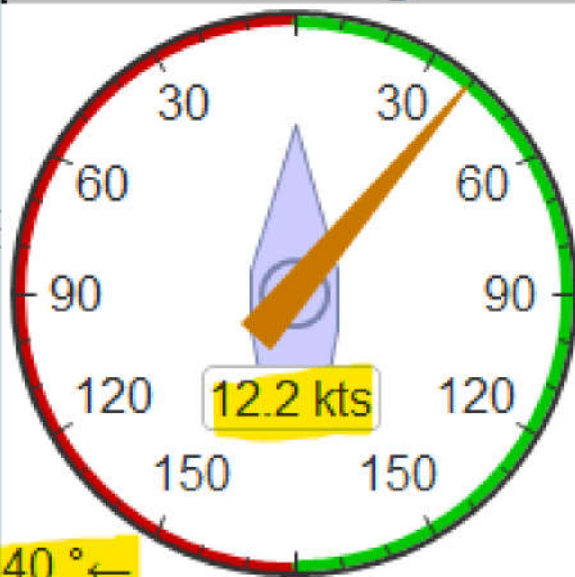
29 ° ←

App. Wind Speed



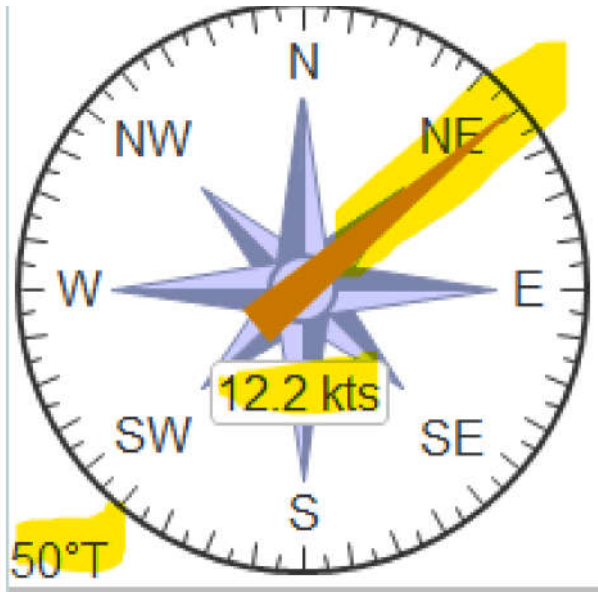
A 16.33 kts

True Wind Angle & Sp



40 ° ←

True Wind Dir. & Spe



♂ PASS or FAIL

7 Change now the wind to come from port side. Repeat step 6.

♂ PASS or FAIL.

Add Step

RESULTS	DEFECTS	REQUIREMENTS		
Status	Test Plan Run	Assigned To	Updated At↑	Actions
Pending	TPR87 dashboard_tactics_pi_pl...	Petri Makijarvi	3 days ago	
Skip	TPR85 dashboard_tactics_pi_st...	Petri Makijarvi	about a month ago	
Pending	TPR84 dashboard_tactics_pi_st...	Petri Makijarvi	2 months ago	
Pending	TPR83 dashboard_tactics_pi_si...	Petri Makijarvi	2 months ago	
Pending	TPR82 Signal K HDG sentence t...	Petri Makijarvi	2 months ago	
<div><div><div>«</div><div>&lt;</div><div>1</div><div>2</div><div>3</div><div>4</div><div>&gt;</div><div>»</div></div></div>				

ACTIVITY	HISTORY	COMMENTS	
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