Test Case TC54 Test Layline w/ Leeway and current

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

Belongs to Suite(s): TS18 NMEA simulator ...

Case Type: Functionality

Label(s): windows linux

Test Quality: EXCELLENT Defects Closed Fixed

Assign To: Petri Makijarvi

Case Priority: Medium

Estimate: 180

Is Automated

Precondition

Pre-requisite for this test is successful execution of TC53. It is recommended not to dismantle the previous test bed. In this test we use NMEA simulator http://www.kave.fi/Apps/ to create and control speed on water, it is also to make the apparent wind consistent with the heel (in this, pro-forma). It will be used also to provide SOG and COG needed in calculations. The NMEA Simulator not sending XDR-sentences for heel, they are generated with NMEA Converter plugin.

Steps

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

1 Let's collect the principle of the calculation for this use case from the source comment in tactics_pi.cpp

10 actualCog

20 diff_btw_Cog_and_Hdt (now we're on Hdt)

52 (2x26) + 2 x TWA

10 + (abs) Leeway

92 = predictedHdt

10^(*) + current_angle

102 = newCog (on other tack)

(*) In TC53 we adjusted the difference between the Leeway and COG to 10 degrees, with a relatively strong current coming from starboard. It safe to suppose, in this use case, that on the other tack the effect will be approximately the same since the angle will not change considerably.

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Test arrangement is that of the TC53 and you should continue with this test right after having completed it. The only difference is that now you need the TWA (true wind angle). Add it into your test instrument panel:



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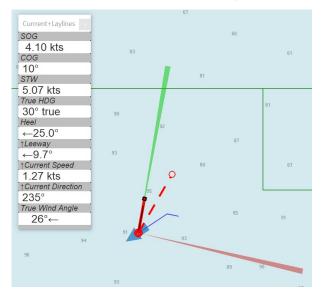


or

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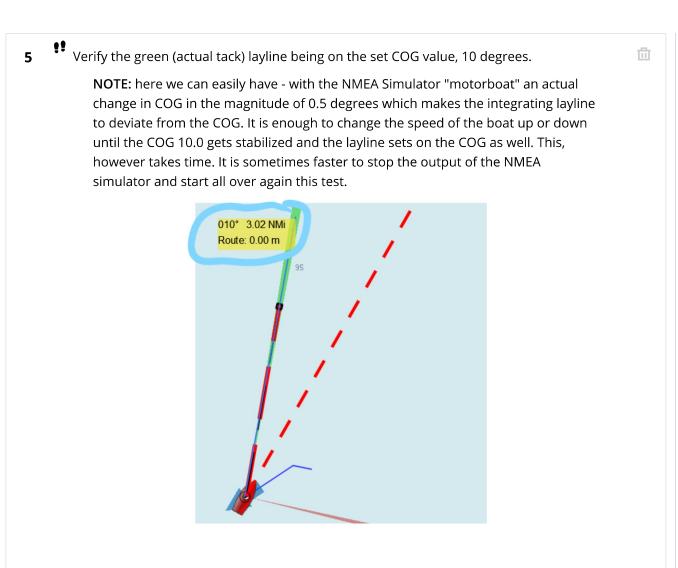


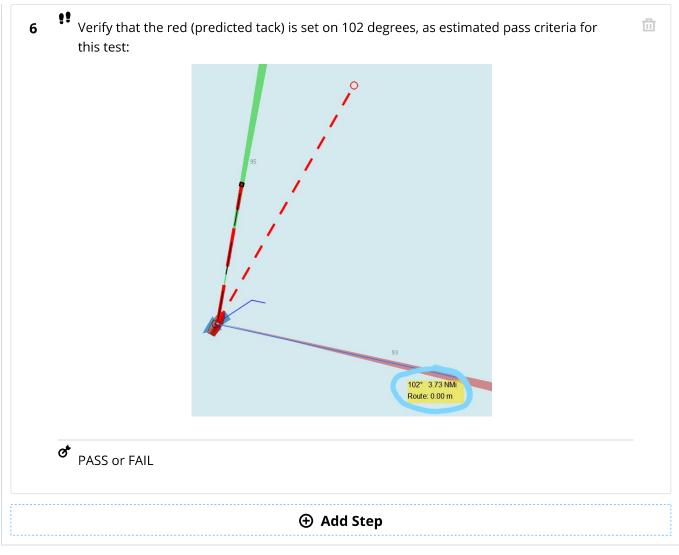
Activate the laylines from the righ clcik on the instrument panel - "Show laylines". Observe the green layline setting itself quickly on COG and red, predicted layline to stabilize within about ten seconds. This is the global view of the test bed:

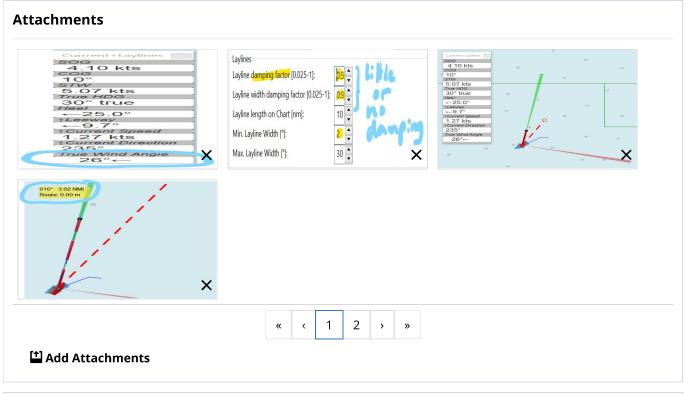


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♂ PASS or FAIL







RESULTS	DEFECTS	REQUIREMENTS		
Status	Test Plan F	Run Assigned To	Updated At个	Actions
▶ Skip	TPR36 das	shboard_tactics_pi 🥞 Petri Makijarvi	about a year ago	区
▶ Skip	TPR37 das	shboard_tactics_pi 🥞 Petri Makijarvi	about a year ago	区
▶ Skip	TPR41 das	shboard_tactics_pi 🥞 Petri Makijarvi	about a year ago	区
▶ Skip	TPR42 das	shboard_tactics_pi 🥞 Petri Makijarvi	about a year ago	区
2 Pending	TPR43 das	shboard_tactics_pi 🥞 Petri Makijarvi	about a year ago	区
		«	>	

ACTIVITY	HISTORY	COMMENTS
TODAY		
🥞 Petri Mak	ijarvi Updated	Step S137
less than a mi	nute ago / Sep	23, 2020

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