⯈ **Test Case Run** | **TCR817 Test TWD calc at standstill**   ⋮

Status: ✔ Pass   ✖ ▾

Test Plan Run: TPR85 dashboard_tactics_pi_static_input_signalk_gps_time_multiplex_no_TWD

Test Plan: TP5 dashboard_tactics_pi_static_input

Test Case: TC108 Test TWD calc at standstill

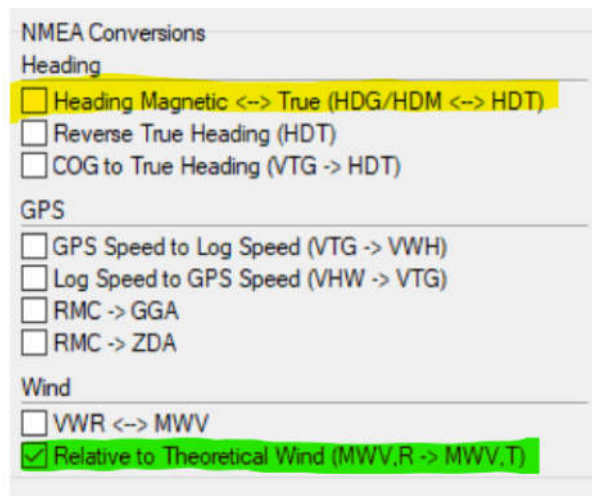**Assigned To:**   Select user...   ▾

Time Spent: 105.000

Precondition

This test requires that you have system - a boat - with a multiplexer or other active system which can calculate the the true wind data from the relative wind data but which does not provide true wind direction either on the water or on the ground. In other words, you get only TWS/TWA out of it in some NMEA sentence.

For this test the dashboard_tactics_pi must be higher than v0.5.2 (which does not yet has this function).

In his test we use MiniPlex 2 with these settings:

Of course, you must be in the boat and it should be moored. The maximum allowed movement is having resulting speed under 0.2 knots. (This may make this function unusable in anchored situations in heavy weather - but people should not use this application in those cases, anyway).

Steps

1   ✔ Pass   ✖ ▾

👣 The default position of the test shall be that the forced true wind calculations for Tactics regatta calculator are turned off (the box is not selected, see below). Make sure that the starting point of the test is like this what comes to TWS/TWA and TWD (in a stormy day, but it is not a requirement but some wind would be nice to have):
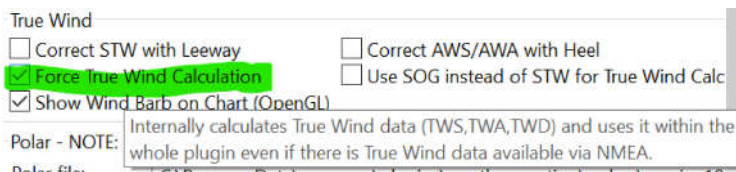

♂

2 👣 Turn on the forced true wind calculations of the Tactics regatta calculator:

    ✔ Pass   ✗ ▾   10

Please note that selection of SOG vs. STW has no meaning in this case. Tactics regatta calculator checks **both** to make sure that the boat speed is not over 0.2 knots. If it is, then it enters to normal, forced true wind calculations with the boat speed - these are out of the scope for these tests.
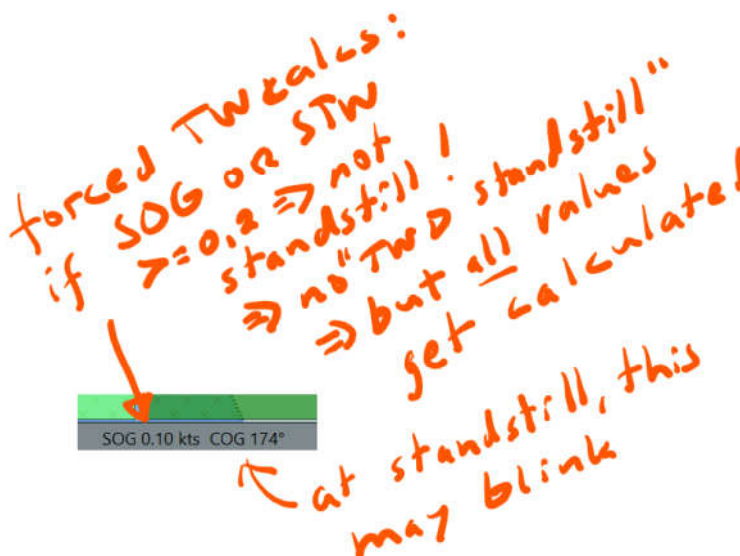
♂

3 👣 Observe that the boat speed, as indicated by GPS does not exceed 0.2 (here in a strong winds and big swell the moored boat remains under control).

    ✔ Pass   ✗ ▾   20

♂

4   ✔ Pass   ✗ ▾   30

!! Observe the opencpn log messages. Tactics regatta calculator indicates progressive debug message when it collects data prior to the actual true wind calculations and it provides the debug output of the **first** of such a calculation:

```
11:19:07 AM: dashboard_tactics_pi: Tactics true wind calculations: waiting on an AWS
sentence.
11:19:07 AM: dashboard_tactics_pi: Tactics true wind calculations: a valid AWS recei
ved, now (22.600000).
11:19:07 AM: dashboard_tactics_pi: Tactics true wind calculations: Forced calculatio
n requested but no TW data as for now..
11:19:07 AM: dashboard_tactics_pi: Tactics true wind calculations: Tactics has now a
n internal AWA value, (167.000000).
11:19:07 AM: dashboard_tactics_pi: Tactics true wind calculations: Tactics has no va
lid intenal AWS value yet.
11:19:07 AM: dashboard_tactics_pi: Tactics true wind calculations: Forced calculatio
n requested, no TWD, but has TWA/TWS.
11:19:07 AM: dashboard_tactics_pi: Tactics true wind calculations: Tactics has a val
id internal AWS value (22.600000).
11:19:07 AM: dashboard_tactics_pi: Tactics true wind calculations: Tactics has an in
ternal true heading value, now (305.500000).
11:19:07 AM: dashboard_tactics_pi: Tactics true wind calculations: AWA unit is avail
abe, now (°lr).
11:19:07 AM: dashboard_tactics_pi: Tactics true wind calculations: checks OK, execut
ion of algorithm will be launched.
11:19:07 AM: dashboard_tactics_pi: Tactics true wind calculations: standstill TWD on
ly requested, returning now TWA 167.100000 '°lr', TWS 22.600000 'kts, TWD 138.400000
'°T'.
```
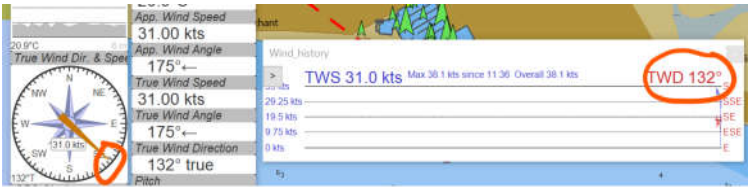
⚲ PASS or FAIL

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5 !! Observe the three major instrument (including the Wind History instrument) for the updates of TWD values.

| ✔ Pass | ✖ ▾ | 25 |

⚲ PASS or FAIL

Reason For Status

All tests PASS.

Defects

Key	ID	Summary	Created ↑	Assigned	Status

| D31 | 85 | No TWD at standstill [D31] | 3 minutes ago | canne | closed | 🗑 |

🐞 **ADD DEFECT**

Test Case History

RESULTS	DEFECTS	REQUIREMENTS

Status	Test Plan Run	Assigned To	Updated At↑	Actions
✔ Pass	TPR85 dashboard_tactics_pi_st...	🖼 Petri Makijarvi	3 minutes ago	☑

ACTIVITY	HISTORY	COMMENTS