Using Laylines and Polar Files
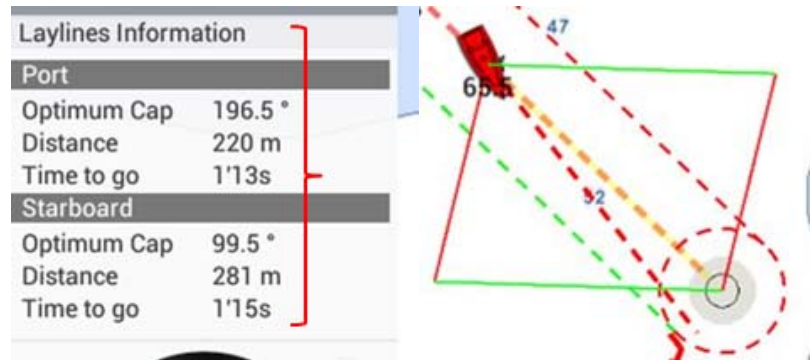
NAVnet

TZ touch3

FURUNO

1. Sailing with NavNet TZtouch3

With the TZT3 a lay-line can be indicated on the Plotter screen and Navigation Data Box. The lay-line indication is useful for navigation with a sailboat in order to locate the most appropriate and effective course towards upwind.

This document highlights how the layline feature is available and utilized on the TZT3.

Left – Navigation Data Box

Right – Plotter

Laylines Information	
Port	
Optimum Cap	196.5 °
Distance	220 m
Time to go	1'13s
Starboard	
Optimum Cap	99.5 °
Distance	281 m
Time to go	1'15s

2. Getting Started

The layline is drawn on the screen based on the database of sailing characteristics of sailboat types. The TZT3 is preloaded with generic database called a "**polar file**".

Generic polar file loaded as standard

Export File Format	CSV >
IMPORT/EXPORT	
Import Points & Routes	>
Export All Points & Routes	>
Import Tracks	>
Export Tracks	>
Import Wind Polar	>
Polar Name	Wind_Polar.xml

Detailed polar files of many sailboat types are available on the <https://furuno.mytimezero.com> website and can be imported to the TZTL12F/15F via USB memory, in order to show a more precise, appropriate layline to the boat type.

The polar file can be loaded to the TZTL12F/15F as follows.

(1) Access <https://furuno.mytimezero.com> and download the required polar file of the sailboat.

TZ TIMEZERO

Hello, *****
Log Out
Customer

We use own and third-party cookies to offer you a better browsing experience, improve your accessibility, analyze your navigation, customize content, promotion and serve targeted advertisement. Read about how we use cookies in our Privacy Policy.

I'VE READ IT

1 DOWNLOAD

Select your shipyard, and download the polar file from the links below.

2 COPY ON USB FLASH DRIVE

Copy the downloaded .xml file on a USB flash drive. Your polar file must be at the root of the USB drive.

3 IMPORT THE FILE

Insert the flash drive in your TZtouch2 MFD (TZTL12F/15F, TZT2BB). Select "Import Wind Polar" in the Files menu, select your file and press OK.
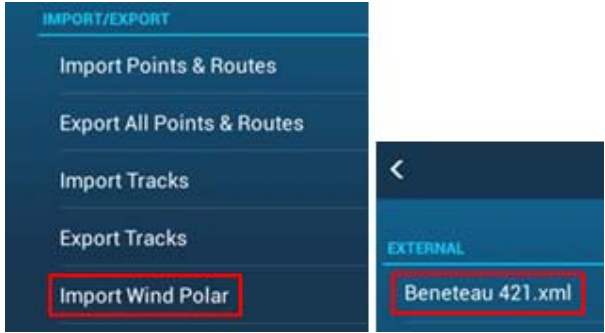
4 YOU'RE DONE ✓

TZtouch2 MFD will from now on use your wind polar for Laylines calculations.

Select your shipyard: All shipyards ⌄

Download a plor file of target sailboat type

[171 files]

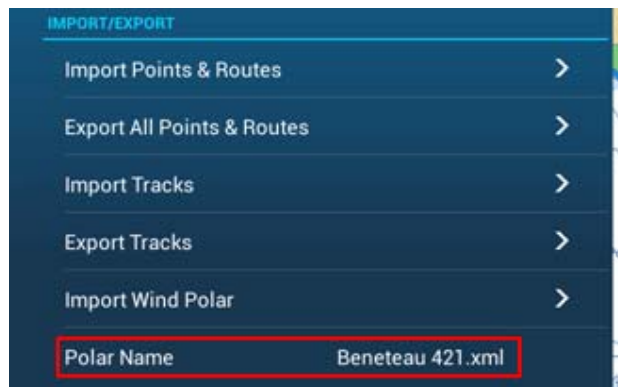| File	Shipyard	Date	Size	Download
60 ft mono	Others	2018/02/26 23:53:01	212 KB	⊕
60 ft Multi	Others	2012/10/05 20:30:28	12 KB	⊕
A 31	Archambault	2012/10/05	12 KB	⊕

(2) Copy the downloaded polar file to USB memory and insert it to the TZTL12F/15F USB port.

(3) Access [Settings] – [Files] – [**Import Wind Polar**]. You can see the polar file name contained in the USB memory. In this example, the polar file from Beneteau 421 is shown: Select the file to be imported.

IMPORT/EXPORT

Import Points & Routes

Export All Points & Routes

Import Tracks

Export Tracks

Import Wind Polar

<

EXTERNAL

Beneteau 421.xml

(4) After the import process is complete, you can see the file name in [**Polar Name**].
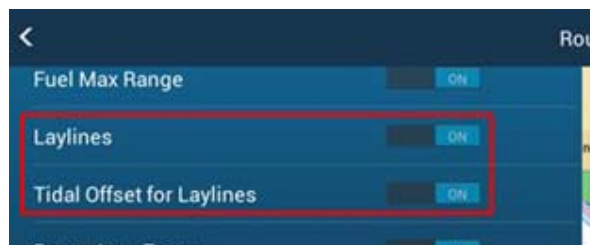
Note:

Only one (1) polar file can be installed on the unit.

3. Showing Laylines on the Plotter

(1) Access [Settings] – [Routes] and set [**Laylines**] and [**Tidal offset for Laylines**] to [**ON**].

(2) Once these settings are turned on, the layline information is available on the navigation data box: Tap the data box area and select [**Laylines Information**].
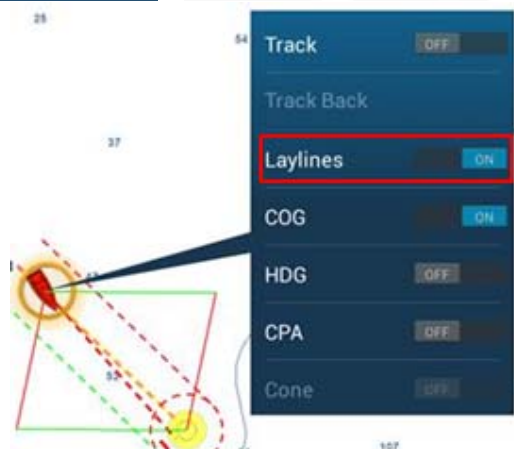

(3) Reviewing the latest wind speed and direction, set the route (GOTO) towards upwind.

(4) Tap the own ship icon and set [**Laylines**] to [**ON**]: See the layline for the boat.

Note:

Make sure that **wind speed**, **wind direction**, **boat heading**, and **boat speed** are available in the TZT3 network.

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