

# INTRODUCTION TO QtVLM (Qt) ROUTING SOFTWARE AND ITS USE WITH SAILONLINE (SOL)

## Editing Route With New Weather Report and Uploading Resulting New Delayed Commands to SOL

When registered for a Race on SOL and racing, two other sites should be open on your desktop to enable you to be linked to Qt and in the position to edit a Route in Qt with a new downloaded Weather Grib. They are BrainAid ↓ (I understand some of the top ranked SOLers use Kripper's AGL.) and Kroppyer's Tools for SailOnline ↓ both of which are available from SOL's Home Page – Links and are illustrated in the following screen prints.

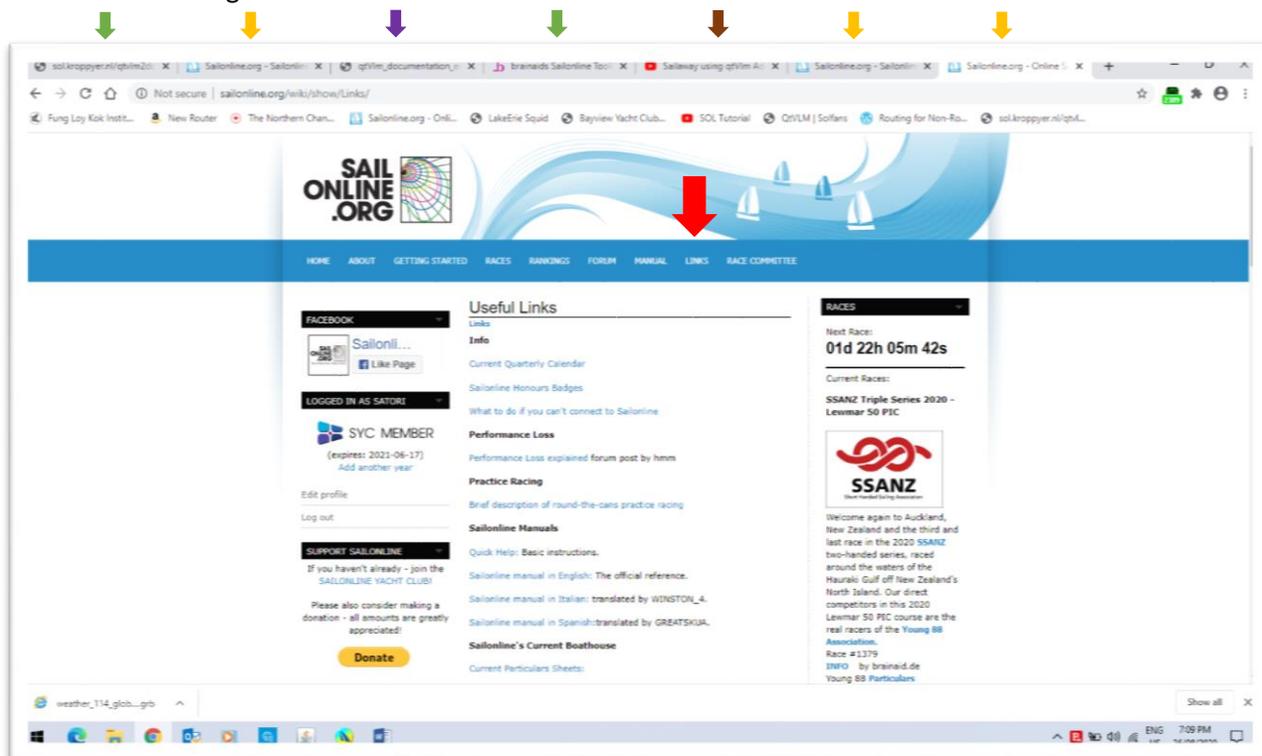
You will note that I have SOL open on 3 pages at the same time ↓ one is zoomed in, one is zoomed out and one is the Links on the Home Page. I find it easier and faster to toggle back and forth. I only have one screen and it is not big enough for me to have more than one page open on a split screen.

In your Helm Course Command box always make sure that you Reset the course to match your Dashboard NMEA COG or TWA Course so that you do not accidentally tap Set Boat Course and cause an accidental tack or gybe!

You might want to have the QtVLM Documentation Manual Open for reference. ↓

Sailaway using QtVLM are good tutorials on YouTube (Advanced Features Parts 1 and 2). ↓

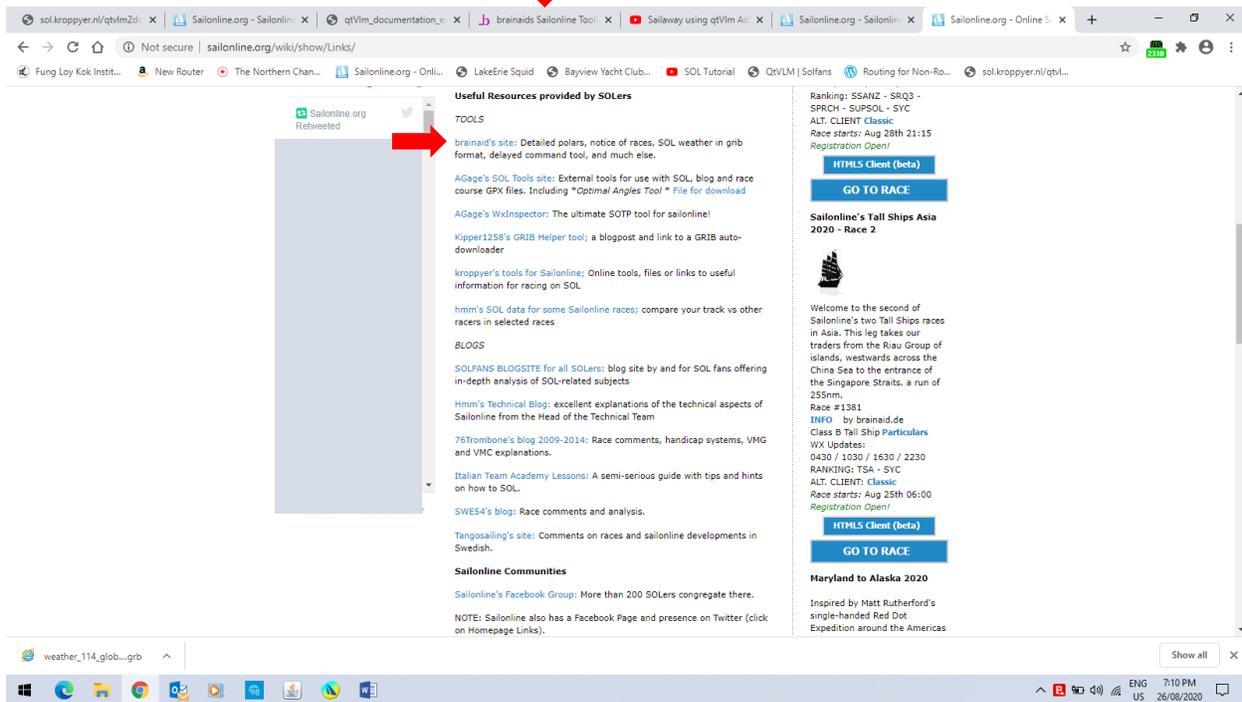
Go to SOL Home Page and click on Links. ↓



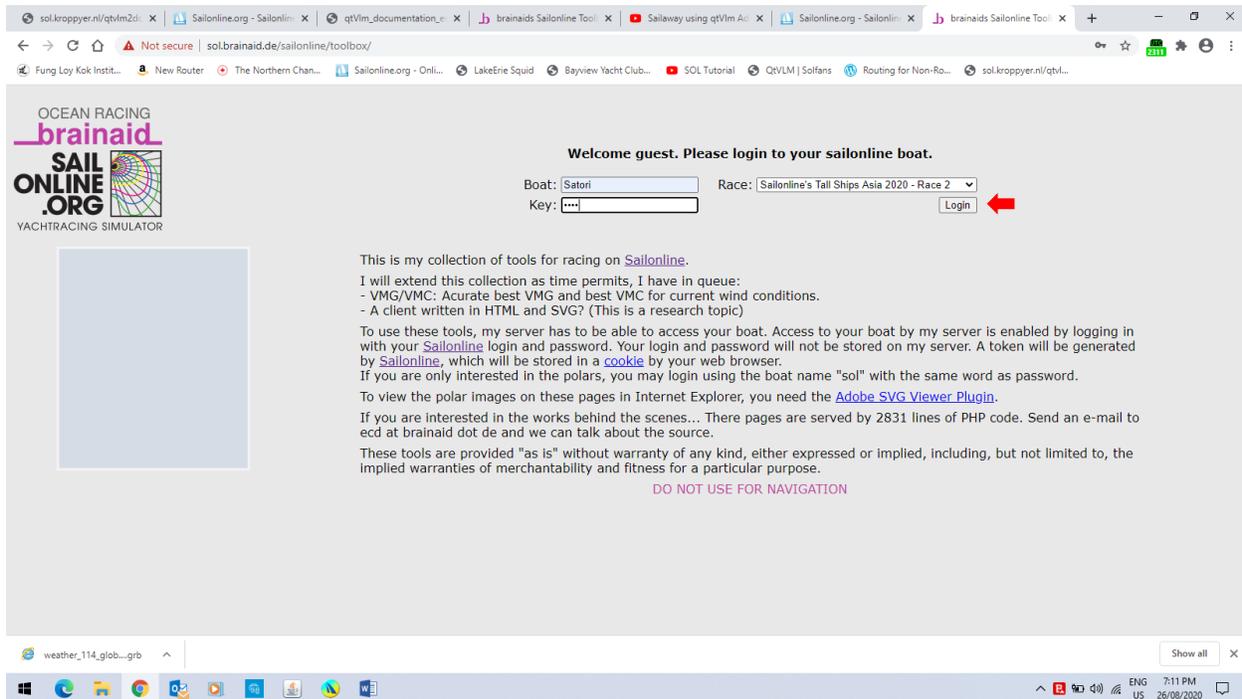
# INTRODUCTION TO QtVLM (Qt) ROUTING SOFTWARE AND ITS USE WITH SAILONLINE (SOL)

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Open BrainAid's Site and leave as favourite site for easy access on your desktop.



Register your SOL boat, password, the SOL race you are registered for and login to BrainAid.



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## BrainAid's Home Page.

sol.kroppyer.nl/qtvlm2dc/ x sailonline.org - Sailonline's Tall Ships Asia 2020 - Race 2 x qtVlm\_documentation\_en.pdf x brainaid's Sailonline Toolbox x Sallaway using qtVlm Adv Feat x sailonline.org - Sailonline's Tall Ships Asia 2020 - Race 2 x + - x

Not secure | sol.brainaid.de/sailonline/toolbox/?sid=ou1o27dvahctf@pnrtm8d9ev527

Fung Loy Kok Instit... New Router The Northern Chan... Sailonline.org - Onli... LakeErie Squid Bayview Yacht Club... SOL Tutorial QVLM | Sofans Routing for Non-Ro... sol.kroppyer.nl/qtvl...

OCEAN RACING  
**brainaid**  
**SAIL ONLINE**  
ORG  
YACHT RACING SIMULATOR

Welcome Satori.

Boat: **Satori** Race: **Sailonline's Tall Ships Asia 2020 - Race 2** [Logout](#)

Home

Chart and Info

Polar

DC editor

Navigation

Weather

This is my collection of tools for racing on [Sailonline](#).

I will extend this collection as time permits, I have in queue:  
- VMG/VMC: Accurate best VMG and best VMC for current wind conditions.  
- A client written in HTML and SVG? (This is a research topic)

To use these tools, my server has to be able to access your boat. Access to your boat by my server is enabled by logging in with your [Sailonline](#) login and password. Your login and password will not be stored on my server. A token will be generated by [Sailonline](#), which will be stored in a [cookie](#) by your web browser.  
If you are only interested in the polars, you may login using the boat name "sol" with the same word as password.

To view the polar images on these pages in Internet Explorer, you need the [Adobe SVG Viewer Plugin](#).

If you are interested in the works behind the scenes... These pages are served by 2831 lines of PHP code. Send an e-mail to [ecd](#) at [brainaid dot de](#) and we can talk about the source.

These tools are provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

DO NOT USE FOR NAVIGATION

weather\_114\_glob...grb Show all X

## Now go back to the SOL Home Page and Links to open Kroppyer's Tools for SOL.

sol.kroppyer.nl/qtvlm2dc/ x sailonline.org - Sailonline's Tall Ships Asia 2020 - Race 2 x qtVlm\_documentation\_en.pdf x brainaid's Sailonline Toolbox x Sallaway using qtVlm Adv Feat x sailonline.org - Sailonline's Tall Ships Asia 2020 - Race 2 x + - x

Not secure | sailonline.org/wiki/show/Links/

Fung Loy Kok Instit... New Router The Northern Chan... Sailonline.org - Onli... LakeErie Squid Bayview Yacht Club... SOL Tutorial QVLM | Sofans Routing for Non-Ro... sol.kroppyer.nl/qtvl...

**SUPPORT SAILONLINE**

If you haven't already - join the **SAILONLINE YACHT CLUB!**

Please also consider making a donation - all amounts are greatly appreciated!

[Donate](#)

Quick Help: Basic instructions.

[Sailonline manual in English: The official reference.](#)

[Sailonline manual in Italian: translated by WINSTON\\_4.](#)

[Sailonline manual in Spanish: translated by GREATSKUL.](#)

**Sailonline's Current Boathouse**

Current Particulars Sheets:

Historic Polars and Info Sheets - Sep 2015:

**Useful Resources provided by SOLers**

**TOOLS**

[brainaid's site:](#) Detailed polars, notice of races, SOL weather in grib format, delayed command tool, and much else.

[AGage's SOL Tools site:](#) External tools for use with SOL, blog and race course GPX files. Including \*Optimal Angles Tool\* [File for download](#)

[AGage's WxInspector:](#) The ultimate SOTP tool for sailonline!

[Kipper1258's GRIB Helper tool:](#) a blogpost and link to a GRIB auto-downloader

[kroppyer's tools for Sailonline:](#) Online tools, files or links to useful information for racing on SOL

[hmm's SOL data for some Sailonline races:](#) compare your track vs other racers in selected races

**BLOGS**

[SOLFANS BLOGSITE](#) for all SOLers: blog site by and for SOL fans offering in-depth analysis of SOL-related subjects

[Hmm's Technical Blog:](#) excellent explanations of the technical aspects of Sailonline from the Head of the Technical Team

[76Trombone's blog 2009-2014:](#) Race comments, handicap systems, VMG and VMC explanations.

**Sailonline's Tall Ships Asia 2020 - Race 2**

two-handed series, raced around the waters of the Hauraki Gulf off New Zealand's North Island. Our direct competitors in this 2020 Lewmar 50 PIC course are the real racers of the **Young 88 Association**.

Race #1379

INFO by brainaid.de

**Young 88 Particulars**

WX Updates:

0430 / 1030 / 1630 / 2230

Ranking: SSIANZ - SRQ3 - SPRCH - SUPSOL - SYC

ALT. CLIENT Classic

Race starts: Aug 28th 21:15

Registration Open!

[HTML5 Client \(beta\)](#)

[GO TO RACE](#)

**Sailonline's Tall Ships Asia 2020 - Race 2**

Welcome to the second of Sailonline's two Tall Ships races in Asia. This leg takes our traders from the Riau Group of islands, westwards across the China Sea to the entrance of the Singapore Straits, a run of 255nm.

Race #1381

INFO by brainaid.de

**Class B Tall Ship Particulars**

WX Updates:

0430 / 1030 / 1630 / 2230

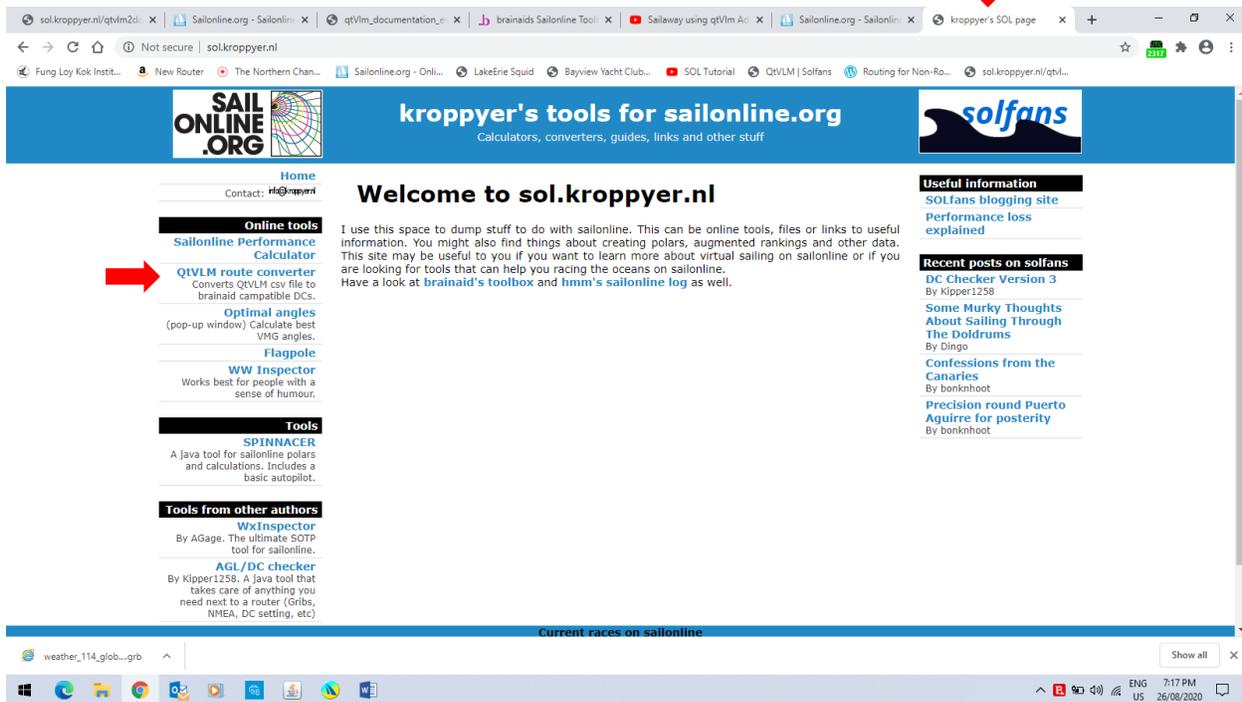
RANKING: TSA - SYC

weather\_114\_glob...grb Show all X

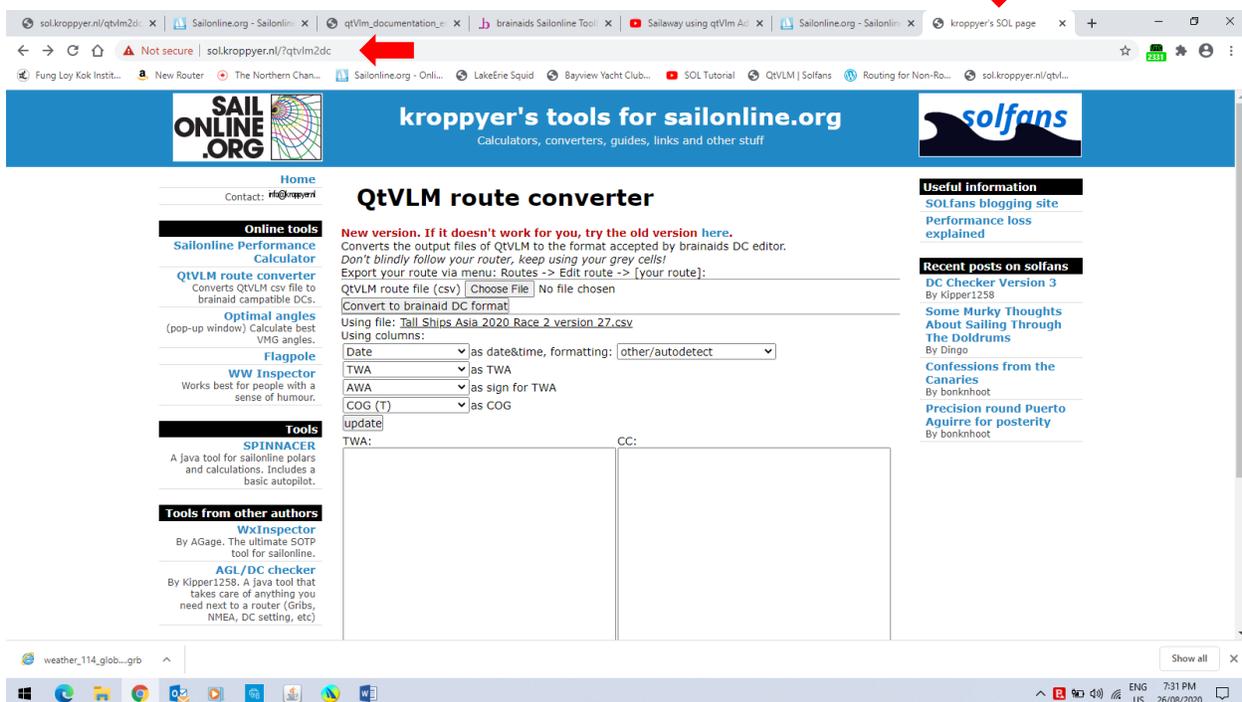
# INTRODUCTION TO QtVLM (Qt) ROUTING SOFTWARE AND ITS USE WITH SAILONLINE (SOL)

## Editing Route With New Weather Report and Uploading Resulting New Delayed Commands to SOL

Open Kroppyer's QtVLM route converter and save in favourites on your desktop for easy access.



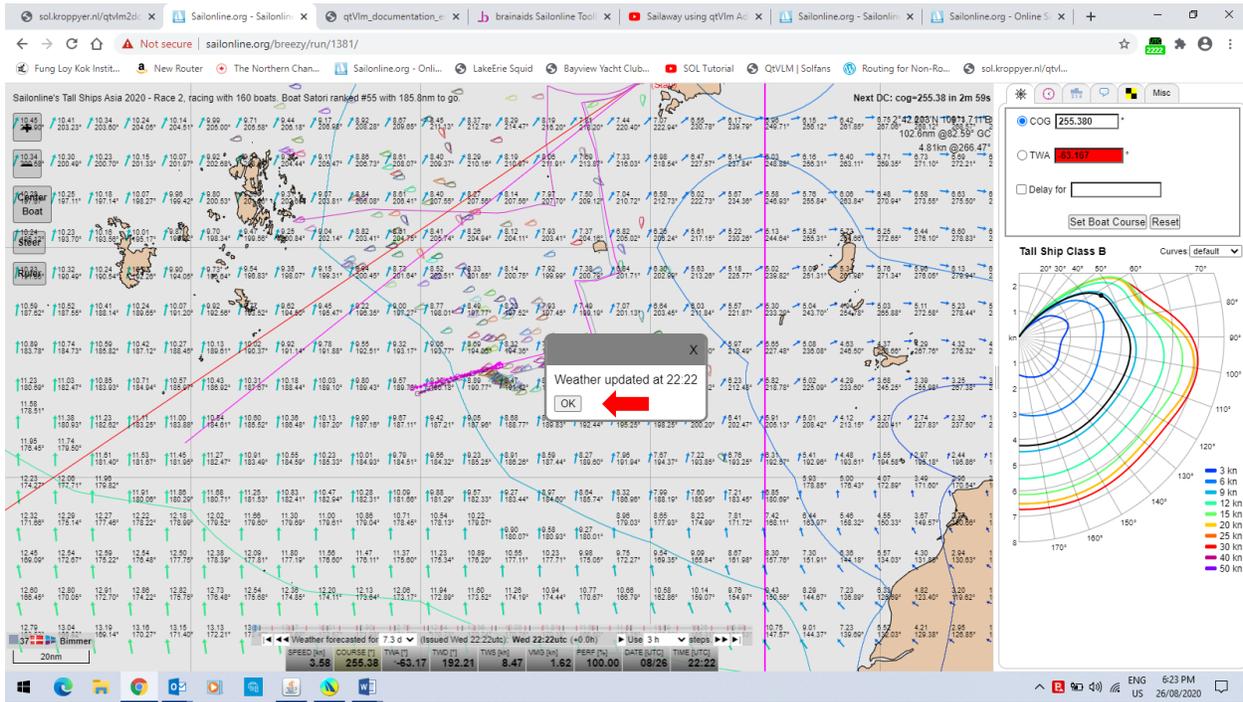
Note the URL that you want to keep in your favourites and open on your desktop while racing



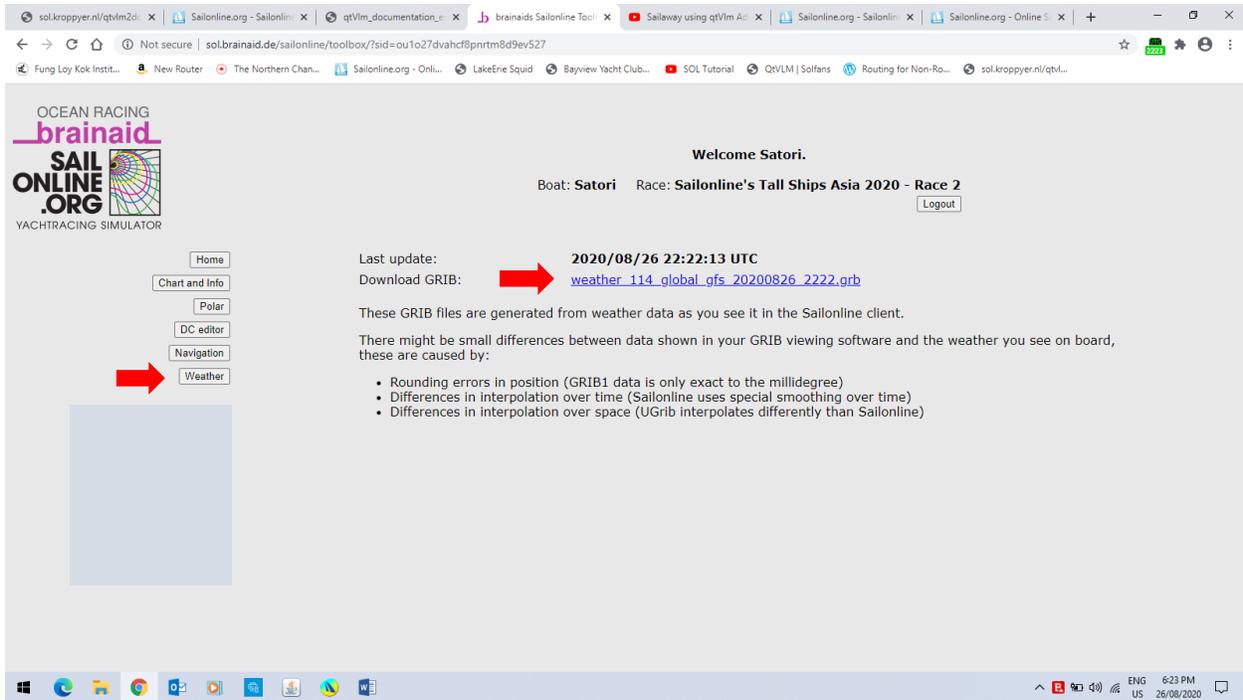
# INTRODUCTION TO QtVLM (Qt) ROUTING SOFTWARE AND ITS USE WITH SAILONLINE (SOL)

## Editing Route With New Weather Report and Uploading Resulting New Delayed Commands to SOL

While registered for a Race on SOL and racing SOL posts an Alert that a new weather Grib has been uploaded to BrainAid. Click OK to close the pop-up Alert. (Every 6 hrs UTC 04:20; 10:20; 16:20 & 22:20)

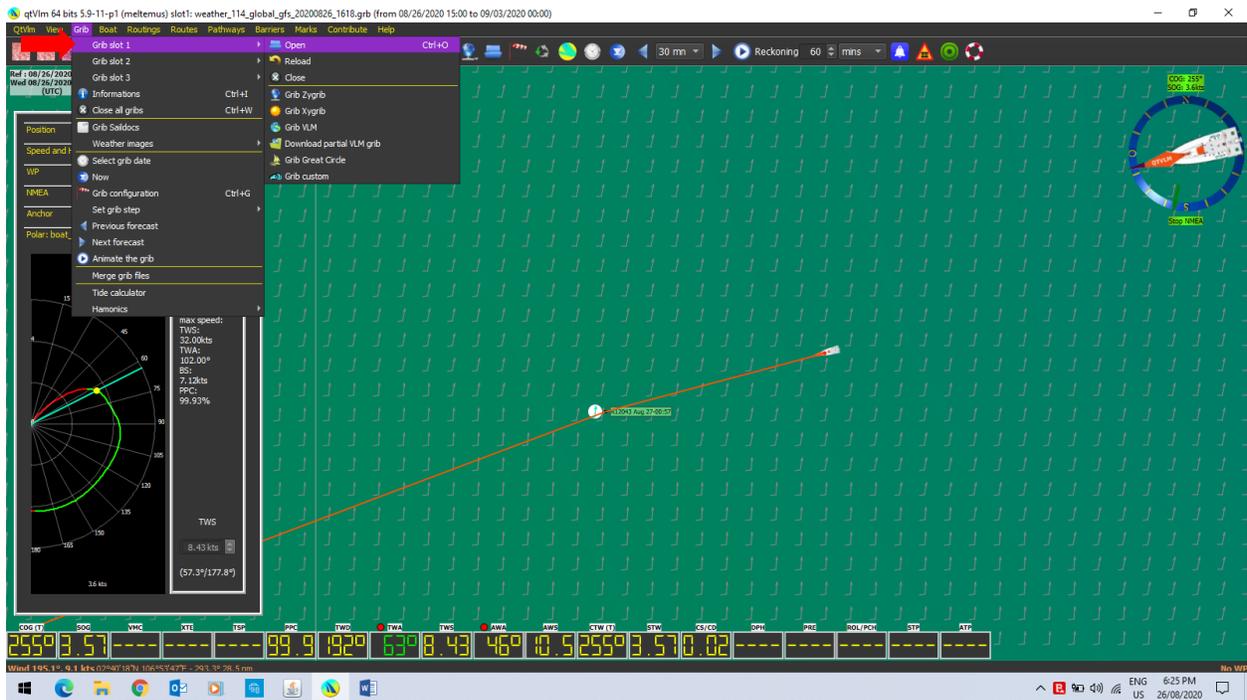


Go to BrainAid and open Weather. Click on Grib file name to download Grib file to your Download files.

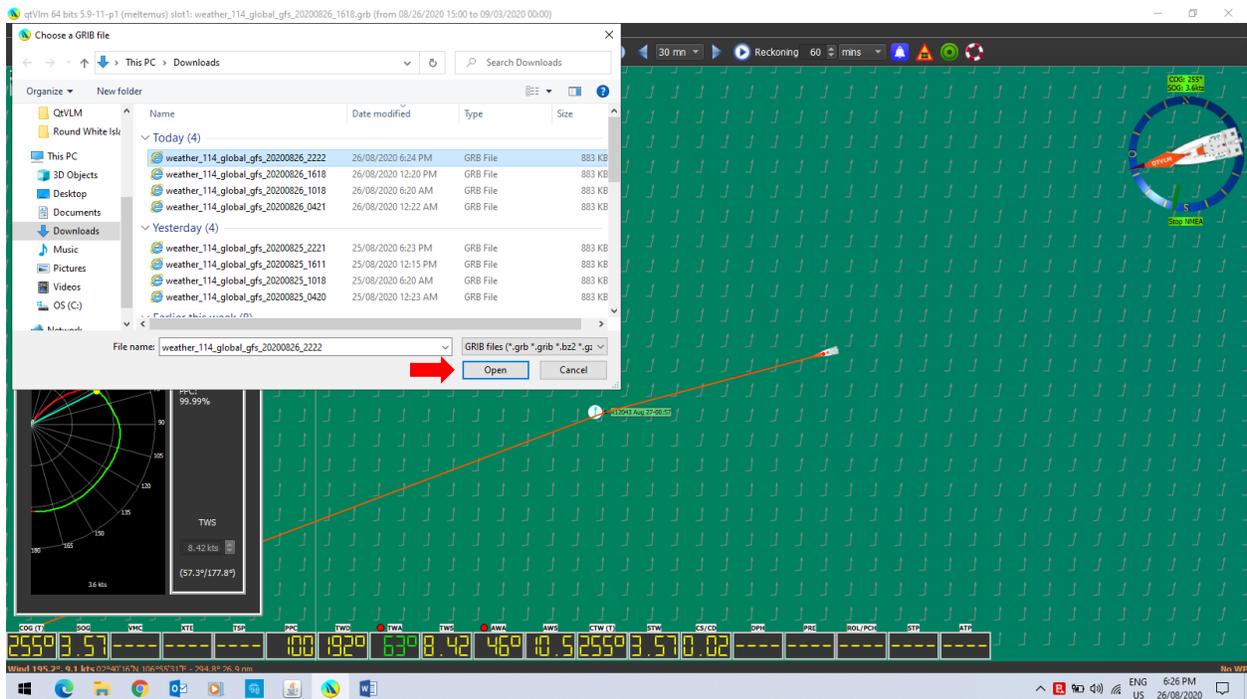


# INTRODUCTION TO QtVLM (Qt) ROUTING SOFTWARE AND ITS USE WITH SAILONLINE (SOL) Editing Route With New Weather Report and Uploading Resulting New Delayed Commands to SOL

Open Qt and open Grib slot 1 and Open which will automatically take you to your Downloaded Files.

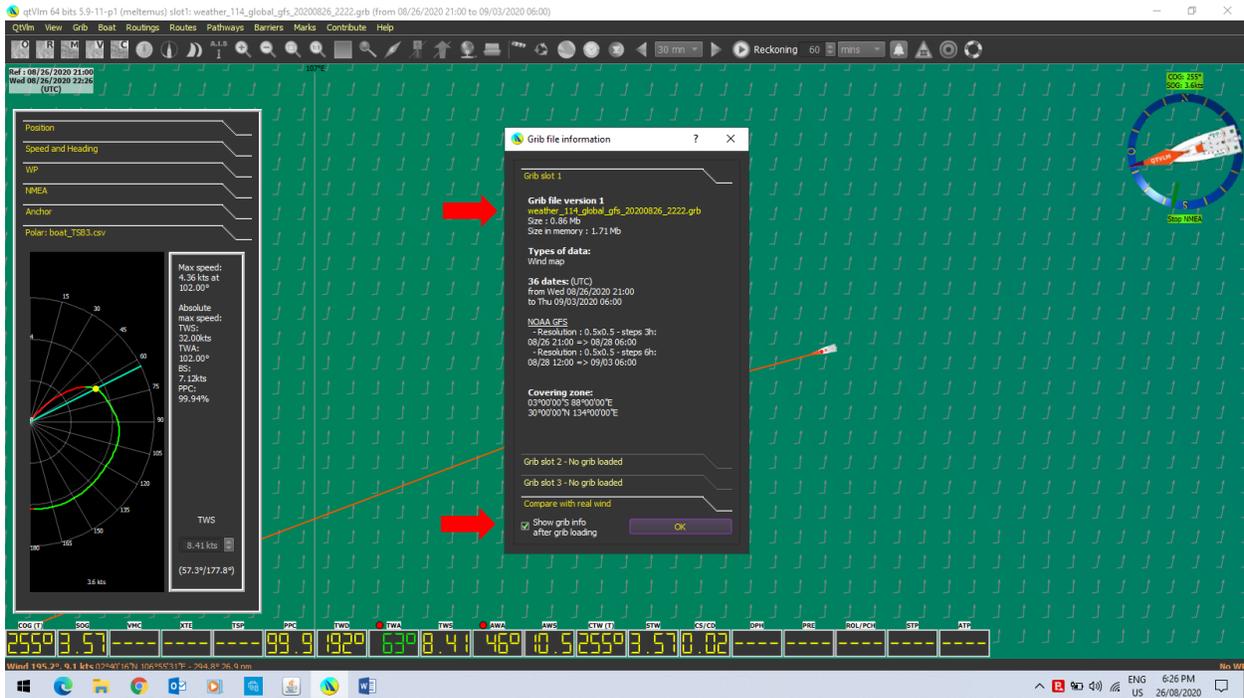


Select the new downloaded Grib file and open.

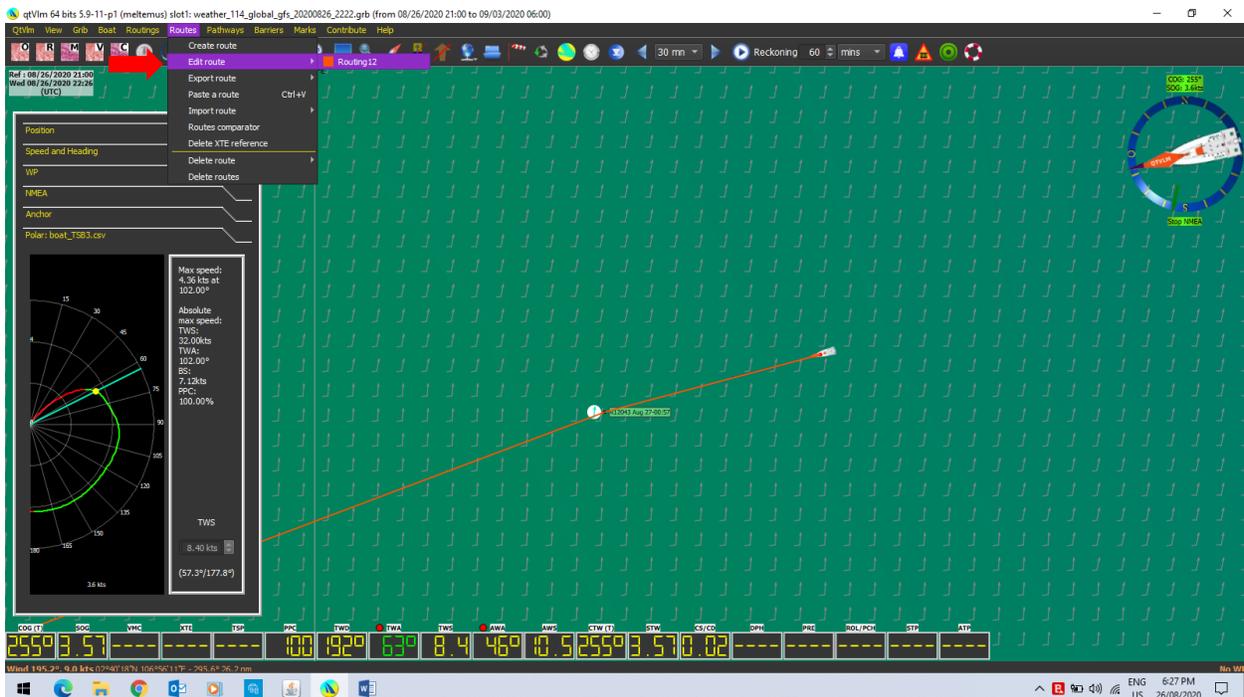


# INTRODUCTION TO QtVLM (Qt) ROUTING SOFTWARE AND ITS USE WITH SAILONLINE (SOL) Editing Route With New Weather Report and Uploading Resulting New Delayed Commands to SOL

Grib File Information pop-up will appear. Double check file name. Click OK.



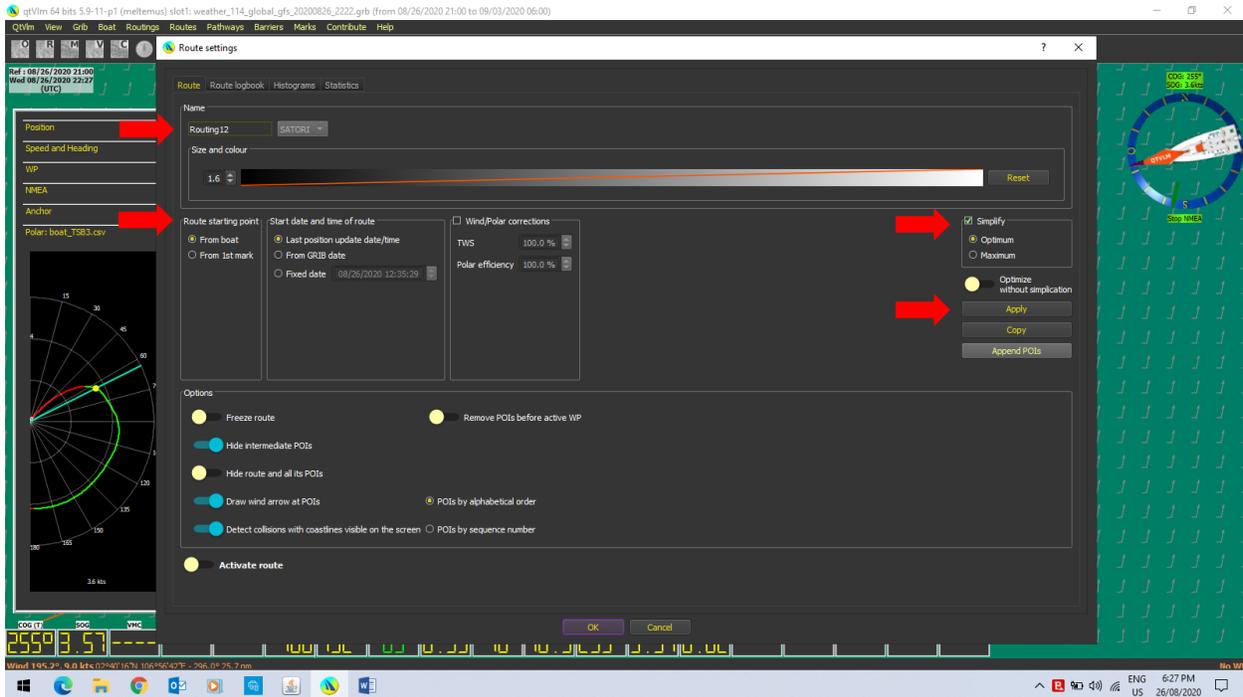
Go to Routes to Edit Route with new Grib weather. Select Route being used in Race.



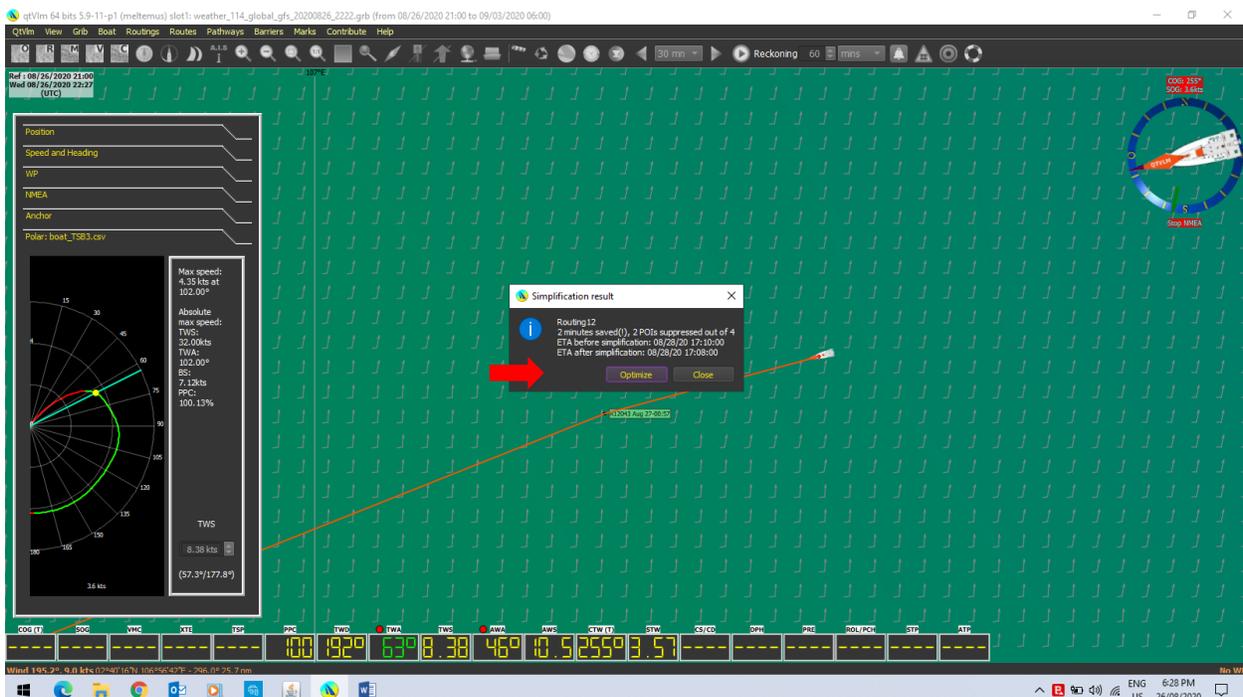
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Route Settings will open. Double check the Route description and that it is starting from the boat and is not the start of the Race. If you change any of the Route settings you will have to click OK at the bottom of the screen for them to be accepted. Click the Simplify box and Apply.



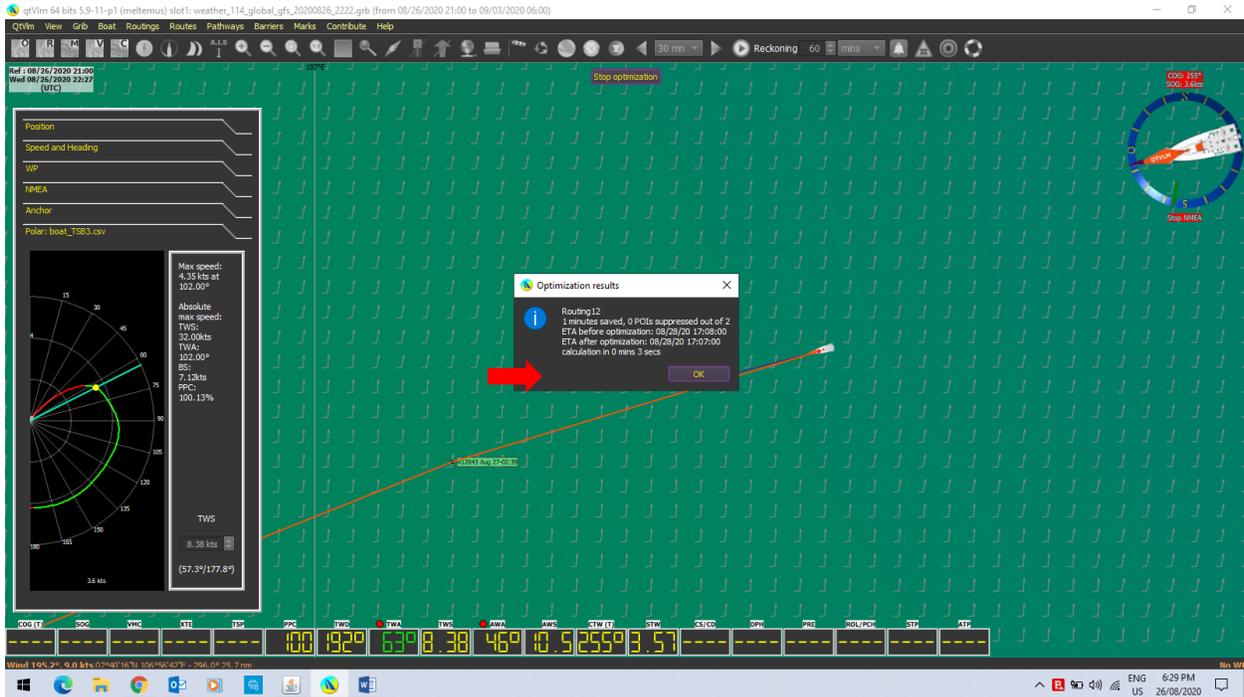
This Simplification Result pop-up will appear. Click Optimize.



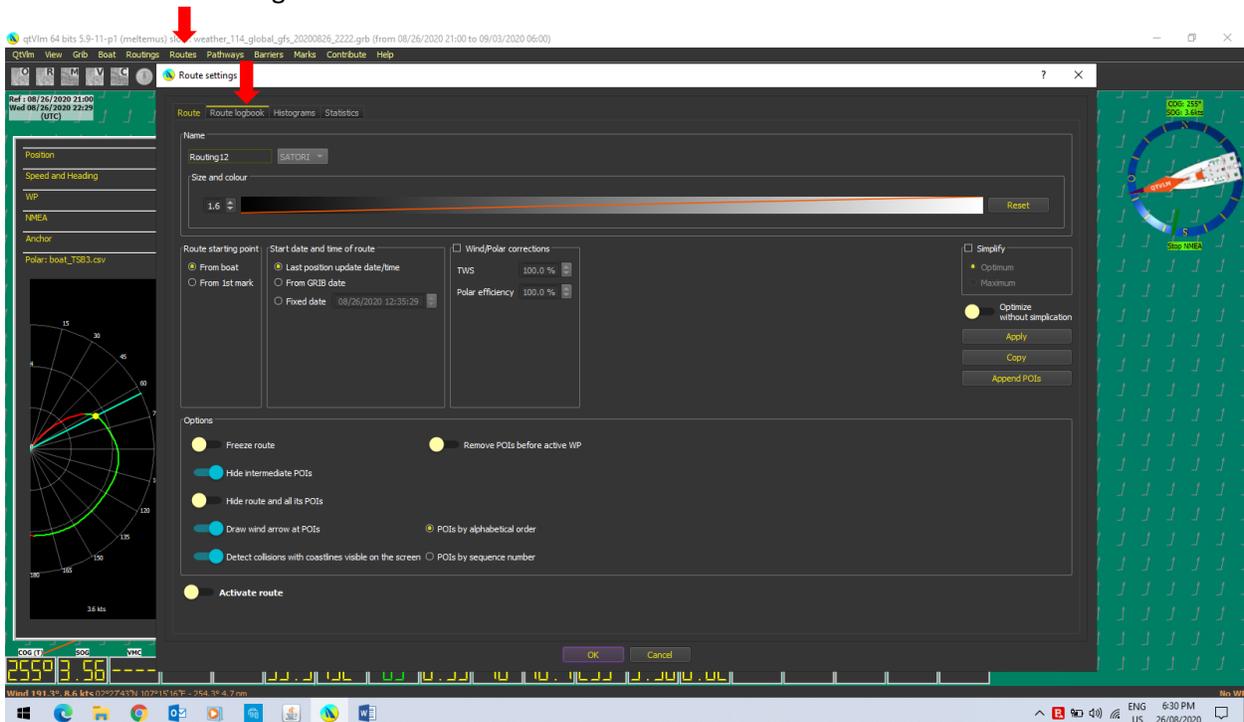
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This Optimization Results pop-up will appear. Click OK. You now have an updated Route based on the latest downloaded Grib File.



Go back to the Route/Edit Route and open the Route Logbook which will automatically populate with the Route course changes based on this new Grib file.



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Populated Logbook. Click Export (csv format)

The screenshot shows the QtVLM interface with a logbook table. A red arrow points to the 'Export (CSV format)' button in the top left of the logbook area. The logbook table contains the following data:

Position	TWS	TWD	TWA	SAILS	STW	CTW (T)	SOG	COG (T)	AWA	AWA	CS	CD	GUSTS	RAIN	CLOUDS	AIRTEMP	CAPE	REFLECTIVITY	PRESSURE	COMB WAVES HGT	PRIP
08/27/2020 02:57	10.35 kts	186.37°	115.39°	N/A	4.77 kts	71.12°	4.77 kts	71.12°	9.37 kts	-87.82°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 03:02	10.34 kts	186.46°	115.39°	N/A	5.02 kts	71.12°	5.02 kts	71.12°	9.36 kts	-86.36°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 03:07	10.32 kts	186.54°	115.44°	N/A	5.01 kts	71.12°	5.01 kts	71.12°	9.34 kts	-86.43°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 03:12	10.30 kts	186.62°	61.69°	N/A	3.90 kts	248.25°	3.90 kts	248.25°	12.63 kts	45.90°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 03:17	10.31 kts	186.52°	61.73°	N/A	3.90 kts	248.25°	3.90 kts	248.25°	12.64 kts	45.95°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 03:22	10.32 kts	186.46°	61.69°	N/A	3.91 kts	248.25°	3.91 kts	248.25°	12.65 kts	46.00°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 03:27	10.33 kts	186.36°	61.69°	N/A	3.92 kts	248.25°	3.92 kts	248.25°	12.66 kts	46.05°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 03:32	10.34 kts	186.26°	61.97°	N/A	3.92 kts	248.25°	3.92 kts	248.25°	12.66 kts	46.10°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 03:37	10.34 kts	186.20°	62.05°	N/A	3.93 kts	248.25°	3.93 kts	248.25°	12.67 kts	46.15°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 03:42	10.35 kts	186.12°	62.12°	N/A	3.93 kts	248.25°	3.93 kts	248.25°	12.67 kts	46.20°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 03:47	10.35 kts	186.03°	62.21°	N/A	3.94 kts	248.25°	3.94 kts	248.25°	12.67 kts	46.25°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 03:52	10.35 kts	185.95°	62.30°	N/A	3.95 kts	248.25°	3.95 kts	248.25°	12.68 kts	46.30°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 03:57	10.36 kts	185.87°	62.38°	N/A	3.95 kts	248.25°	3.95 kts	248.25°	12.68 kts	46.35°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 04:02	10.36 kts	185.78°	62.46°	N/A	3.96 kts	248.25°	3.96 kts	248.25°	12.68 kts	46.40°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 04:07	10.36 kts	185.70°	62.55°	N/A	3.96 kts	248.25°	3.96 kts	248.25°	12.68 kts	46.45°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 04:12	10.36 kts	185.61°	62.64°	N/A	3.97 kts	248.25°	3.97 kts	248.25°	12.68 kts	46.50°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 04:17	10.36 kts	185.53°	62.72°	N/A	3.97 kts	248.25°	3.97 kts	248.25°	12.68 kts	46.55°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 04:22	10.36 kts	185.44°	62.81°	N/A	3.98 kts	248.25°	3.98 kts	248.25°	12.69 kts	46.61°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/27/2020 04:27	10.37 kts	185.35°	62.89°	N/A	3.98 kts	248.24°	3.98 kts	248.24°	12.69 kts	46.66°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Pop-up appears for saving the Exported Logbook to your Computer which you will need to populate the Kroppyer QtVLM Route Converter when it asks you to choose a file.

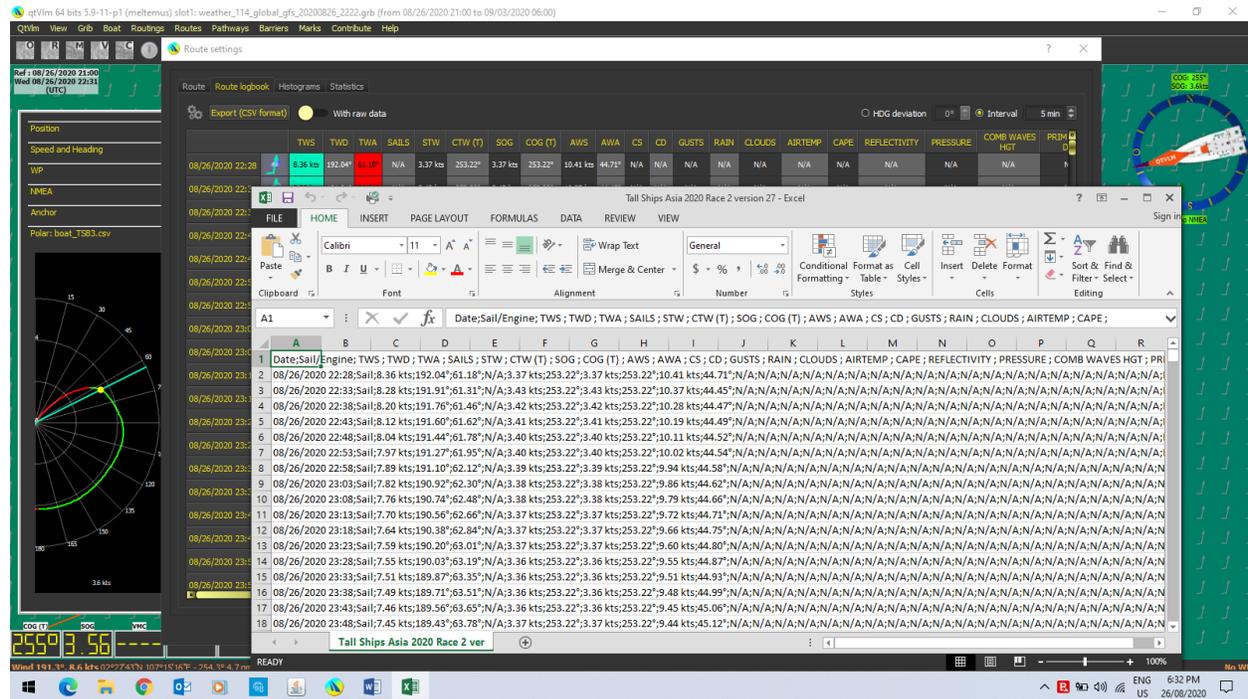
The screenshot shows the QtVLM interface with a file explorer dialog box open. The dialog box is titled 'Export a roadbook' and shows the file 'Tall Ships Asia 2020 Race 2 version 27' selected. The 'Save' button is highlighted with a red arrow. The background shows the logbook table with the following data:

Position	TWS	TWD	TWA	SAILS	STW	CTW (T)	SOG	COG (T)	AWA	AWA	CS	CD	GUSTS	RAIN	CLOUDS	AIRTEMP	CAPE	REFLECTIVITY	PRESSURE	COMB WAVES HGT	PRIP
08/26/2020 23:28	7.55 kts	189.03°	63.19°	N/A	3.36 kts	253.22°	3.36 kts	253.22°	9.55 kts	44.87°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/26/2020 23:33	7.51 kts	189.87°	63.39°	N/A	3.36 kts	253.22°	3.36 kts	253.22°	9.51 kts	44.93°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/26/2020 23:38	7.49 kts	189.71°	63.51°	N/A	3.36 kts	253.22°	3.36 kts	253.22°	9.48 kts	44.99°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/26/2020 23:43	7.46 kts	189.56°	63.63°	N/A	3.36 kts	253.22°	3.36 kts	253.22°	9.45 kts	45.05°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/26/2020 23:48	7.45 kts	189.49°	63.78°	N/A	3.37 kts	253.22°	3.37 kts	253.22°	9.44 kts	45.11°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/26/2020 23:53	7.45 kts	189.32°	63.90°	N/A	3.37 kts	253.22°	3.37 kts	253.22°	9.43 kts	45.18°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
08/26/2020 23:58	7.46 kts	189.22°	64.00°	N/A	3.38 kts	253.22°	3.38 kts	253.22°	9.44 kts	45.24°	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

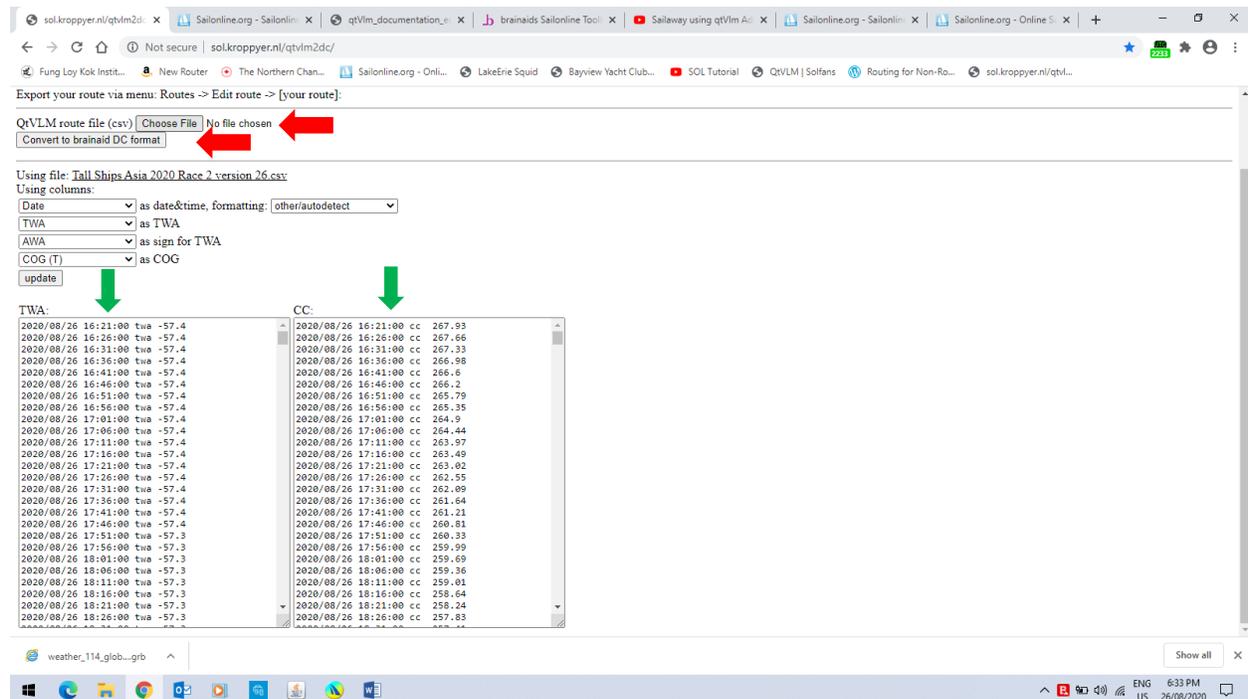
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The exported csv file will appear but can be closed since you have saved a copy to your computer in the previous screen.



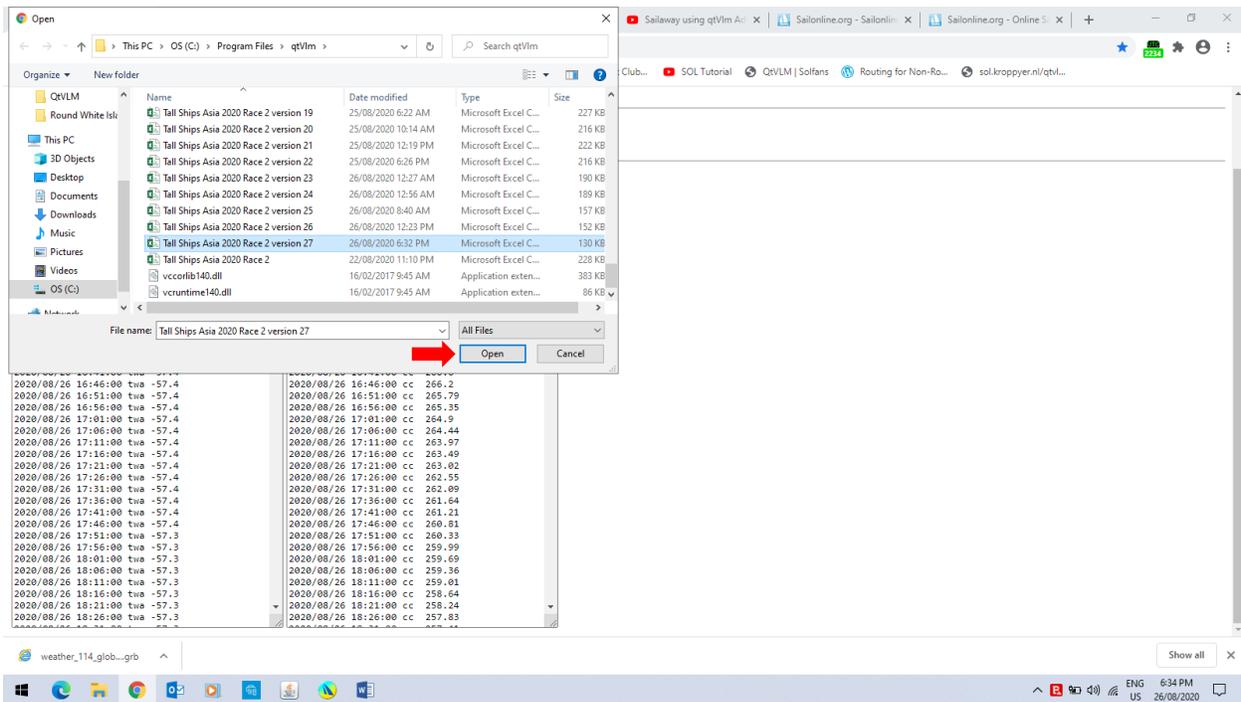
Go to Kroppper Qt Route Converter and Choose File i.e. the saved Exported csv logbook file in the previous screen. The boxes ↓ are presently populated with the previous Grib file data.



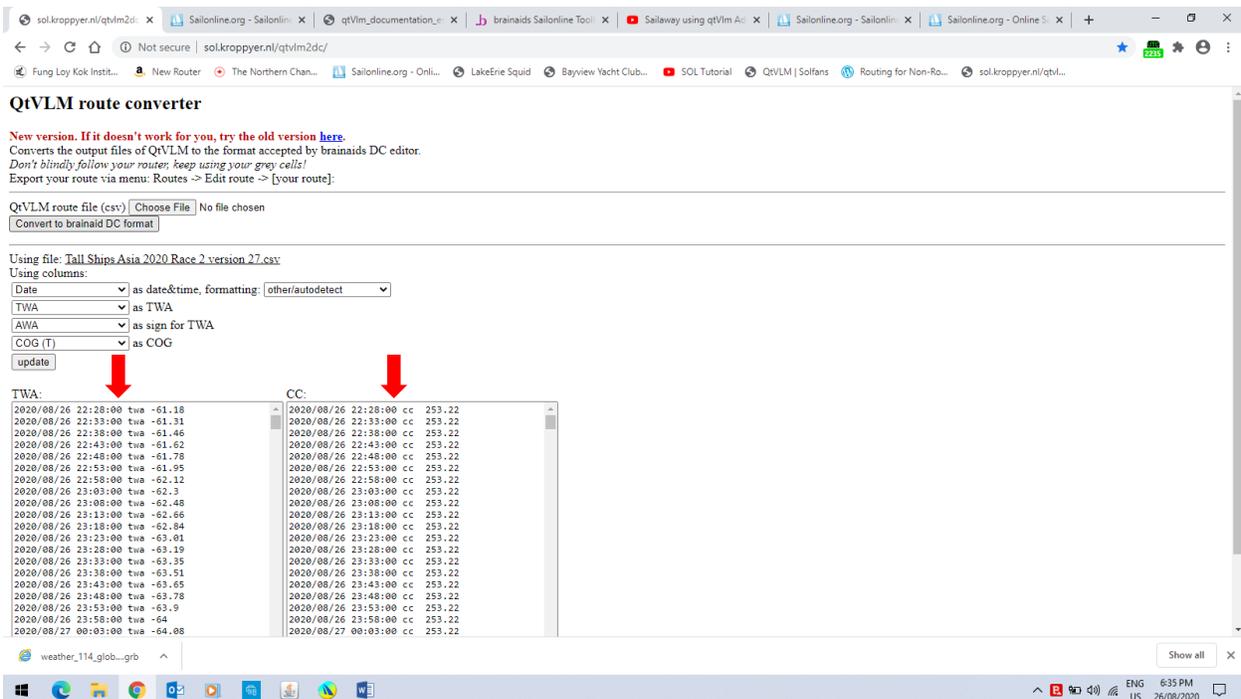
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Choose the newly exported and saved Exported Logbook csv file and open it.



Click Convert to BrainAid DC Format and the boxes will be repopulated with the latest Route Logbook data based on the Exported csv file chosen. Check the time and course of the first line of COG (CC) course change to see that it is current UTC and logically follows the COG course presently being sailed.



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You have to decide whether you want to populate SOL with TWA or COG (CC) Delayed Commands. Most of the time it will likely be COG but not always! Now capture all of the data lines for copying and pasting to BrainAid's DC Editor subject to the following. **It can take up to 5 minutes for BrainAid to populate SOL since the server is usually busy posting new Grib downloads being converted by all the racers. Check the UTC time and leave out the first lines that are too close to the current time.** (Download a UTC Clock from the internet and add to your desktop tool bar.↓)

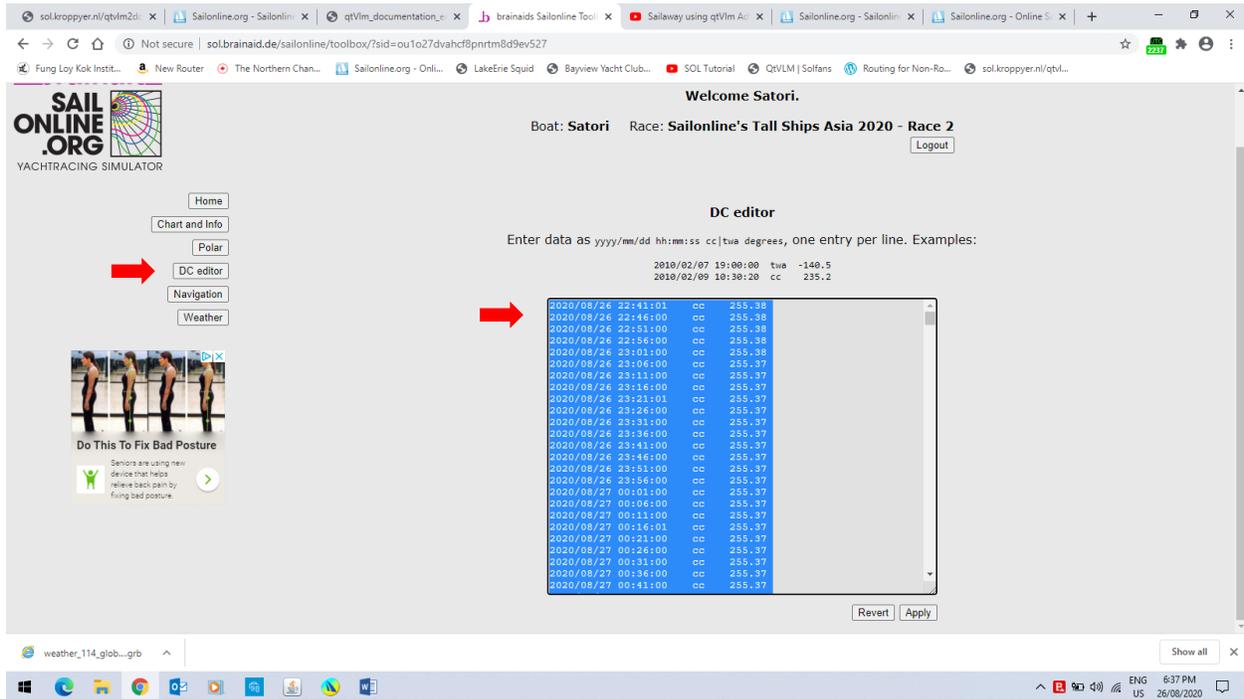
The screenshot shows the QtVLM web interface in a browser. The browser's address bar shows the URL `solkroppyer.nl/QtVLM2dc/`. The page title is "Export your route via menu: Routes -> Edit route -> [your route]:". Below the title, there are options for "QtVLM route file (csv)" and "Convert to brainaid DC format". The main content area shows the file "Tall Ships Asia 2020 Race 2 version 27.csv" and the columns used: "Date" as "date&time, formatting: other/autodetect", "TWA" as "TWA", "AWA" as "sign for TWA", and "COG (T)" as "COG". There are two data tables: "TWA:" and "CC:". The "CC:" table is highlighted in blue, and a red arrow points to the top of this table. A UTC clock widget is visible in the bottom right corner of the browser window, showing the time as 6:36 PM on 26/08/2020.

TWA:				CC:			
2020/08/26	22:28:00	twa	-61.18	2020/08/26	22:28:00	cc	253.22
2020/08/26	22:33:00	twa	-61.31	2020/08/26	22:33:00	cc	253.22
2020/08/26	22:38:00	twa	-61.46	2020/08/26	22:38:00	cc	253.22
2020/08/26	22:43:00	twa	-61.62	2020/08/26	22:48:00	cc	253.22
2020/08/26	22:48:00	twa	-61.78	2020/08/26	22:53:00	cc	253.22
2020/08/26	22:53:00	twa	-61.95	2020/08/26	22:58:00	cc	253.22
2020/08/26	22:58:00	twa	-62.12	2020/08/26	23:03:00	cc	253.22
2020/08/26	23:03:00	twa	-62.3	2020/08/26	23:08:00	cc	253.22
2020/08/26	23:08:00	twa	-62.48	2020/08/26	23:13:00	cc	253.22
2020/08/26	23:13:00	twa	-62.66	2020/08/26	23:18:00	cc	253.22
2020/08/26	23:18:00	twa	-62.84	2020/08/26	23:23:00	cc	253.22
2020/08/26	23:23:00	twa	-63.01	2020/08/26	23:28:00	cc	253.22
2020/08/26	23:28:00	twa	-63.19	2020/08/26	23:33:00	cc	253.22
2020/08/26	23:33:00	twa	-63.35	2020/08/26	23:38:00	cc	253.22
2020/08/26	23:38:00	twa	-63.51	2020/08/26	23:43:00	cc	253.22
2020/08/26	23:43:00	twa	-63.65	2020/08/26	23:48:00	cc	253.22
2020/08/26	23:48:00	twa	-63.78	2020/08/26	23:53:00	cc	253.22
2020/08/26	23:53:00	twa	-63.9	2020/08/26	23:58:00	cc	253.22
2020/08/26	23:58:00	twa	-64	2020/08/27	00:03:00	cc	253.22
2020/08/27	00:03:00	twa	-64.08	2020/08/27	00:08:00	cc	253.22
2020/08/27	00:08:00	twa	-64.16	2020/08/27	00:13:00	cc	253.22
2020/08/27	00:13:00	twa	-64.25	2020/08/27	00:18:00	cc	253.22
2020/08/27	00:18:00	twa	-64.34	2020/08/27	00:23:00	cc	253.22
2020/08/27	00:23:00	twa	-64.43	2020/08/27	00:28:00	cc	253.22
2020/08/27	00:28:00	twa	-64.52	2020/08/27	00:33:00	cc	253.22
2020/08/27	00:33:00	twa	-64.61				

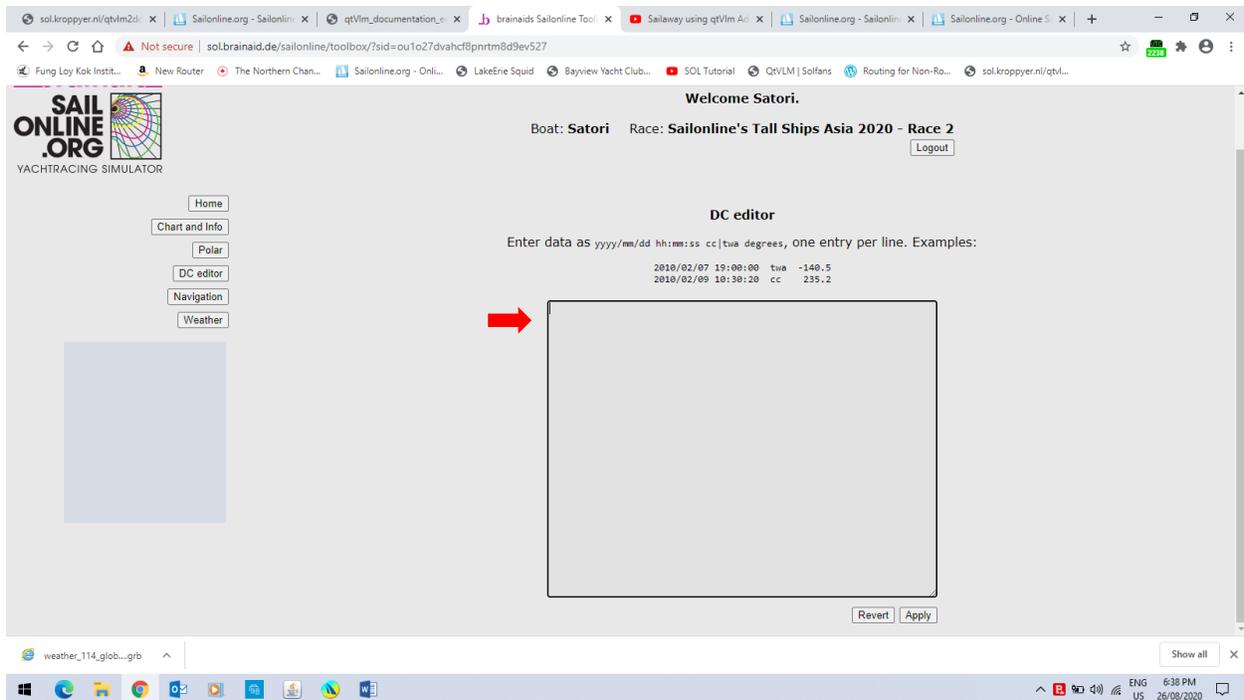
# INTRODUCTION TO QtVLM (Qt) ROUTING SOFTWARE AND ITS USE WITH SAILONLINE (SOL)

## Editing Route With New Weather Report and Uploading Resulting New Delayed Commands to SOL

Now go to BrainAid and open the DC Editor. The DC Editor box is currently populated with the last Grib file data. Capture and delete the data.



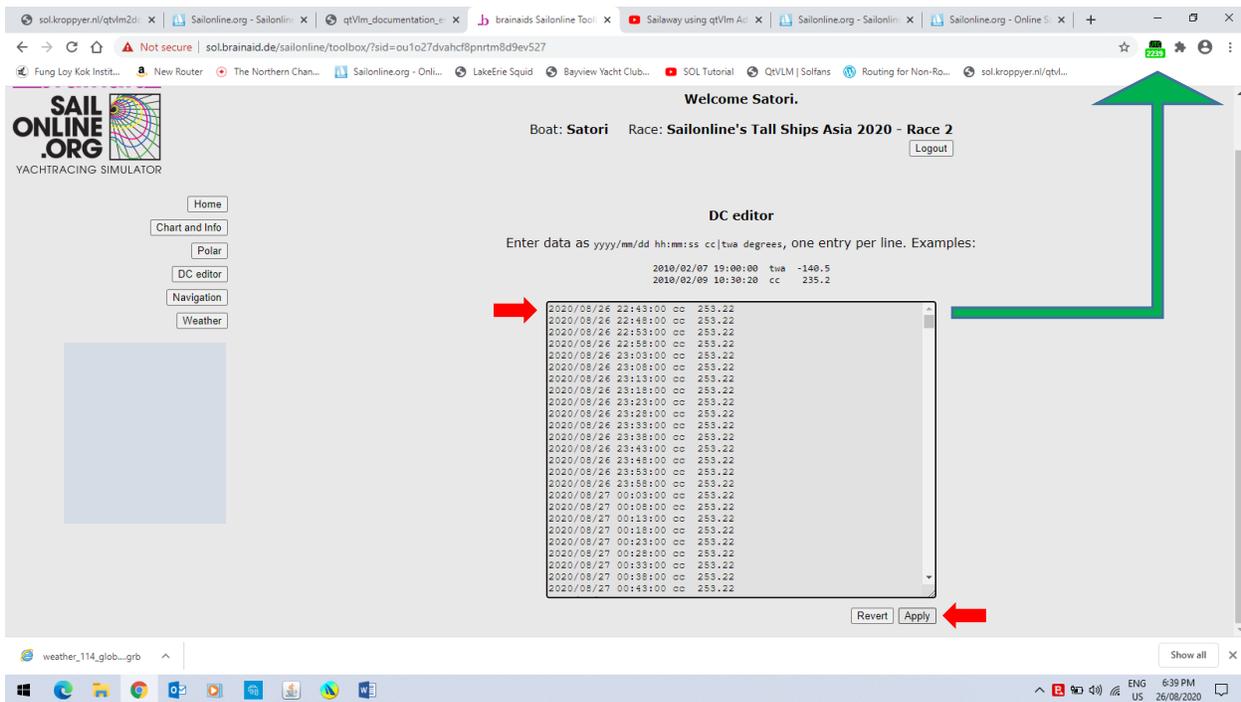
The emptied box ready for you to paste in the new DC commands.



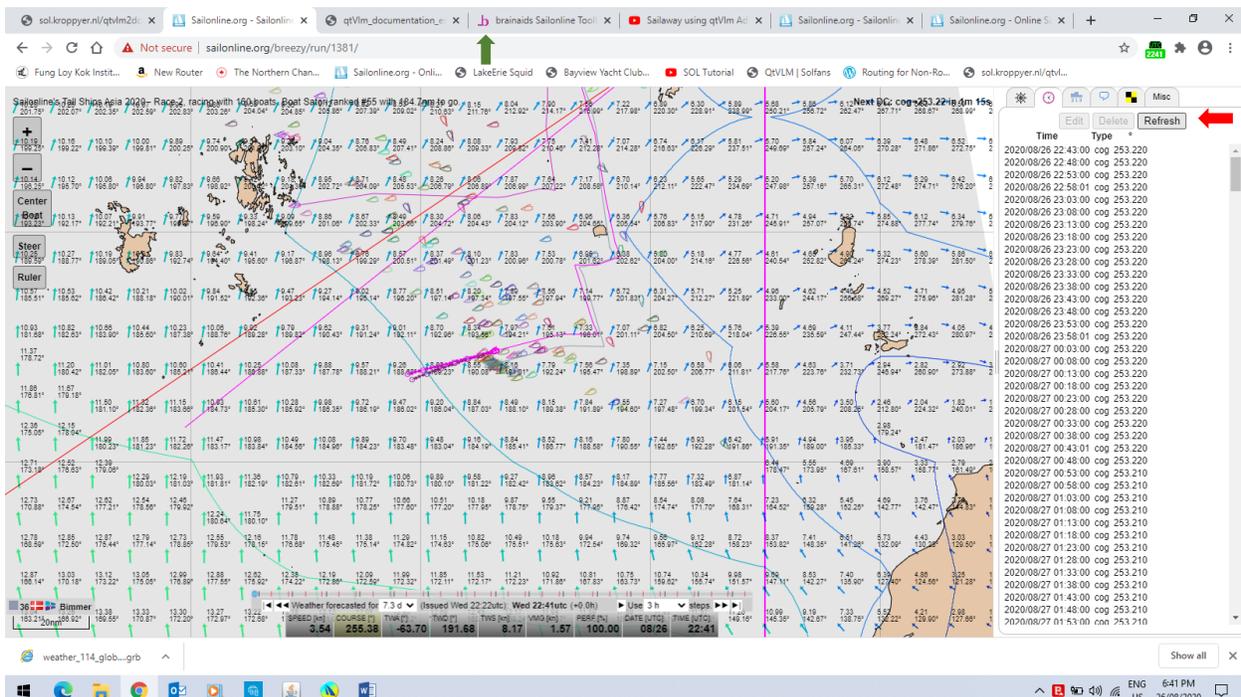
# INTRODUCTION TO QtVLM (Qt) ROUTING SOFTWARE AND ITS USE WITH SAILONLINE (SOL)

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Paste in the new DC commands. Double check the first line – time and course. Click Apply.



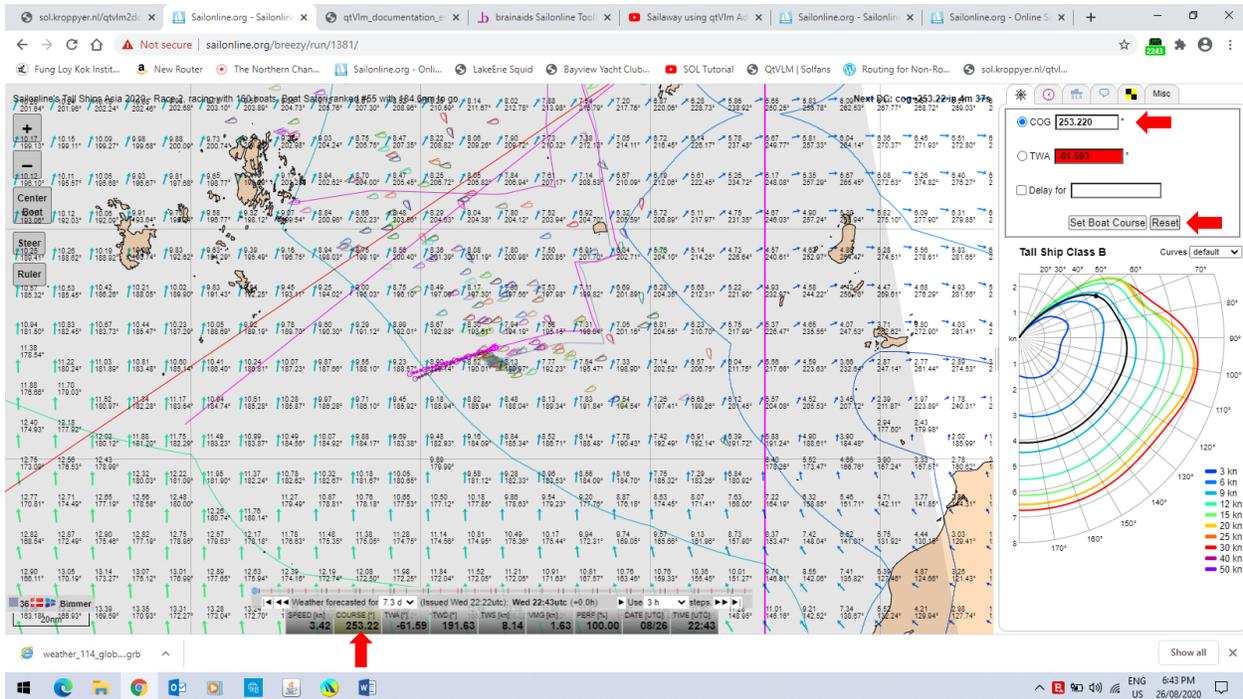
Go immediately to SOL and the DC Command box and start repeatedly clicking Refresh ↓ until the BrainAid site [b](https://brainaid.com) at the top of your screen stops rotating ↓ i.e. transfer task completed. The transfer function deletes the old and adds the new DC's. Scan the DC's tacks and gybes. Sometimes there will be too many close together which requires a reoptimization of the Route or manual intervention at the time. 5 minutes is the command default Qt interval in its settings which can be changed in Qt.



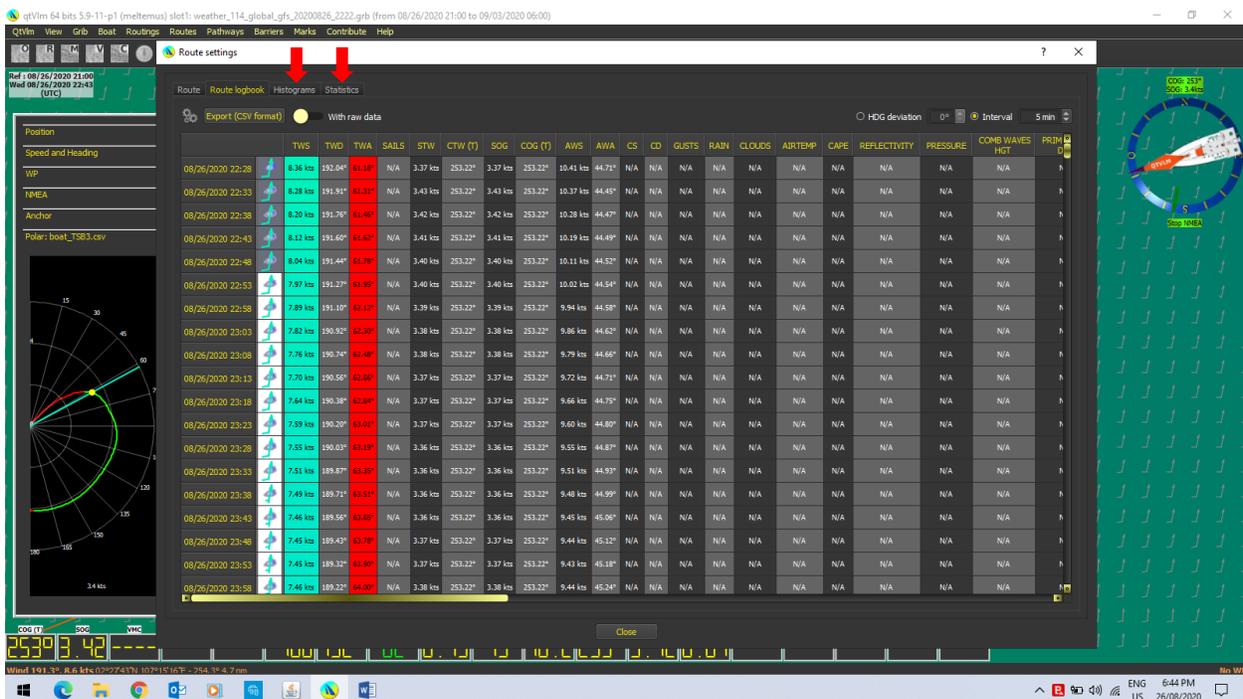
# INTRODUCTION TO QtVLM (Qt) ROUTING SOFTWARE AND ITS USE WITH SAILONLINE (SOL)

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Remember to press the Reset so that it shows the course being sailed as shown in the dashboard. The DC Command does not change the course setting displayed in the Command Box. Many accidental tacks and gybes have occurred from pressing the Set Boat Course with the wrong course in the box!



Go back to Qt and open Route Settings page to look at the Histograms and Statistics



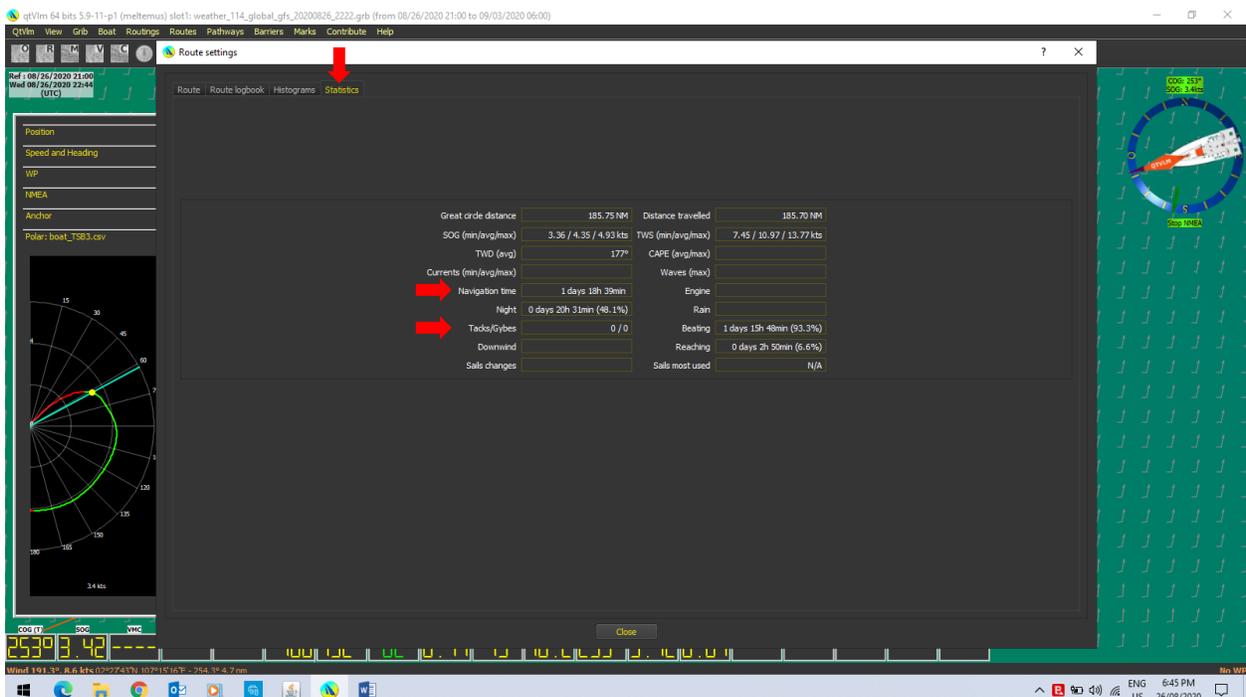
# INTRODUCTION TO QtVLM (Qt) ROUTING SOFTWARE AND ITS USE WITH SAILONLINE (SOL)

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There are a number of Histograms available in the drop-down. This is TWS for the Route duration.



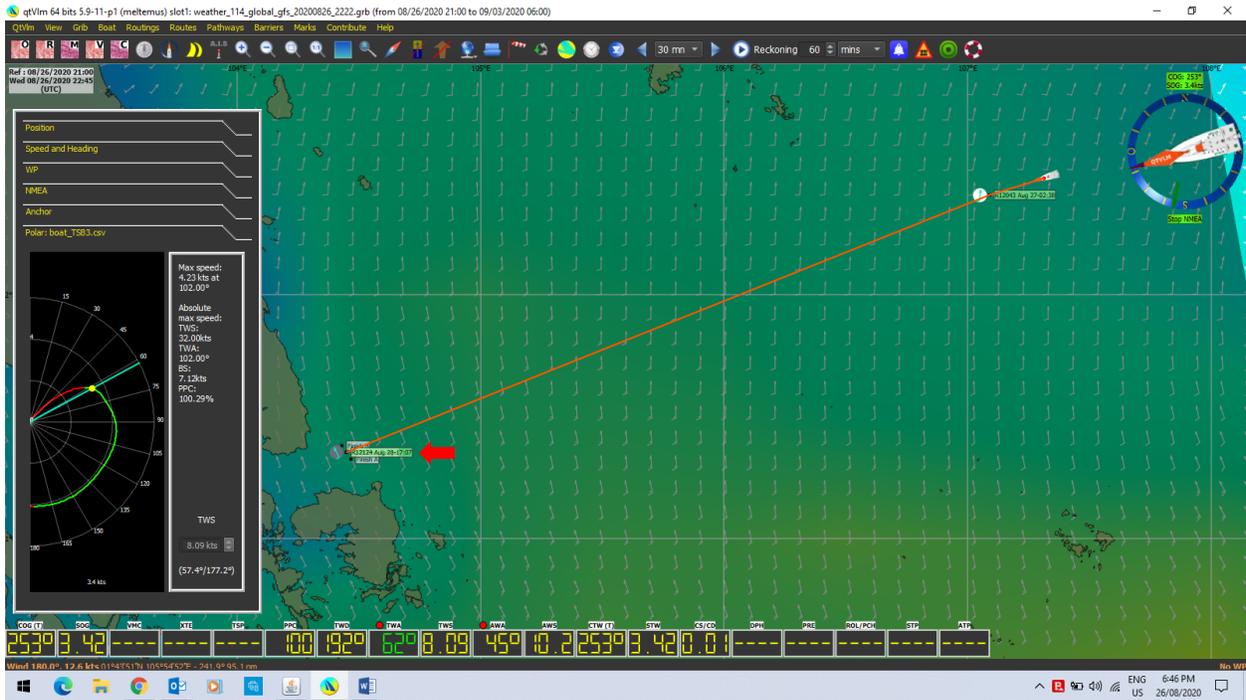
Here are the Statistics for the remaining duration of the Route. An early look at this before populating SOL with the new Grib DC's will tell you if there are too many tacks and gybes requiring Route editing. From the Navigation Time plus the current UTC you can work out ETA at finish line.



# INTRODUCTION TO QtVLM (Qt) ROUTING SOFTWARE AND ITS USE WITH SAILONLINE (SOL)

## Editing Route With New Weather Report and Uploading Resulting New Delayed Commands to SOL

You are now looking at the newly edited Route using the latest Grib file. Note the Finish Line ETA ↓



On the next screen I have AIS on. While it clutters the screen, particularly when their courses eventually trail them, I like to click on them because the boat and their NMEA data shows up i.e. SOG (rounded to one decimal place), COG and direct distance to assist in watching and covering the competition!

