

# Regatta-Playbook.com

## Crew Guide

Your Race Report is the post race tool to help debrief after a race. The goal of the Race Report is to help you get to those “Critical few” things to address quickly using facts and data, instead of just “it felt” analysis. The goal is to use it, take the lessons learned and use them tomorrow. Here’s what’s in it:

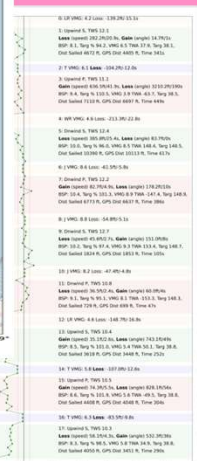
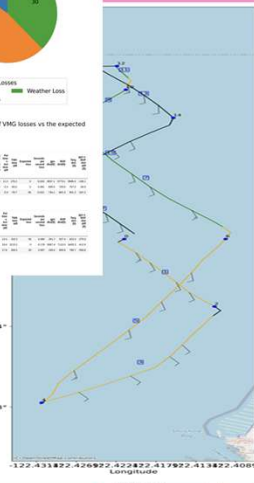
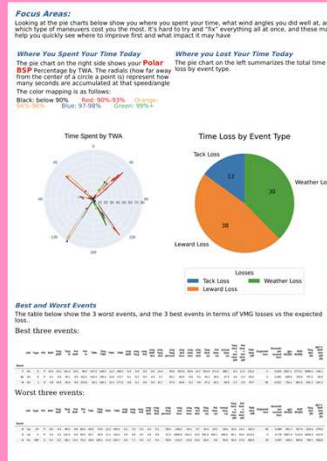
## Race Deep Dive:

- Focus Areas
- Course Performance
- Race Recap
- Tack Comparisons
- Jibe Comparisons
- Rounding Comparisons
- Instrument QA
- Leg Details

A note on how we process your data: Our focus is on team performance. This is not a perfect process.

This is an automated system that tries to figure out what is happening by just looking at the data. Some conditions are difficult to deal with, and we do our best but ultimately recognize that in those conditions the data is not informative and is may be a hindrance to your performance. We don't know your actual racecourse,

so we make it up from the data. This means that the recap you see is not always perfect. While the numbers we give you are quite reliable, sometimes the data sees things as significant that are not. Most of these events may be interesting to the navigator but they are not actionable by the team. Our focus is on team performance, not navigational efficiency so we by and large ignore these events. Combine that with some distracted driving, a huge duck or a penalty turn and sometimes we create events such as roundings that "big picture" aren't really mark roundings. Here are some of our list of event triggers and reasons we may ignore them:



are graphed in terms of speed loss. We score tacks based on relative to targets. Basically, we look at your total VMG for the MG for this TWS, and an "expected loss" for a tack at this tack is boded.

shows all of your tacks only on boatspeed

graph compares your best tack to your "typical" tack in this only on boatspeed

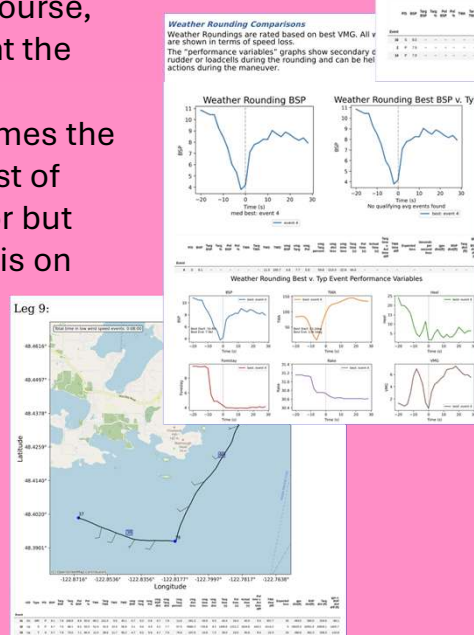
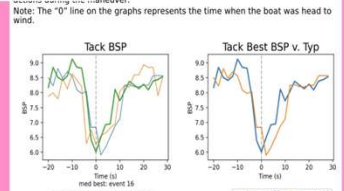
graph shows you the speeds and angles that went into the tacks.

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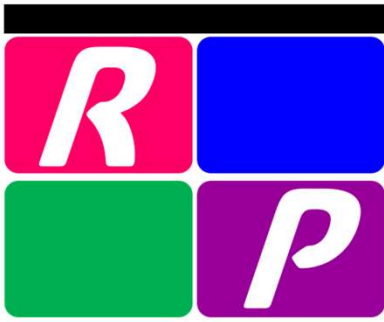
ce lost due to lower speed vs loss due to the angle sailed is an planning tack performance. The total loss analysis subtracts on your actual loss.

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Note: The "0" line on the graphs represents the time when the boat was headed to wind.





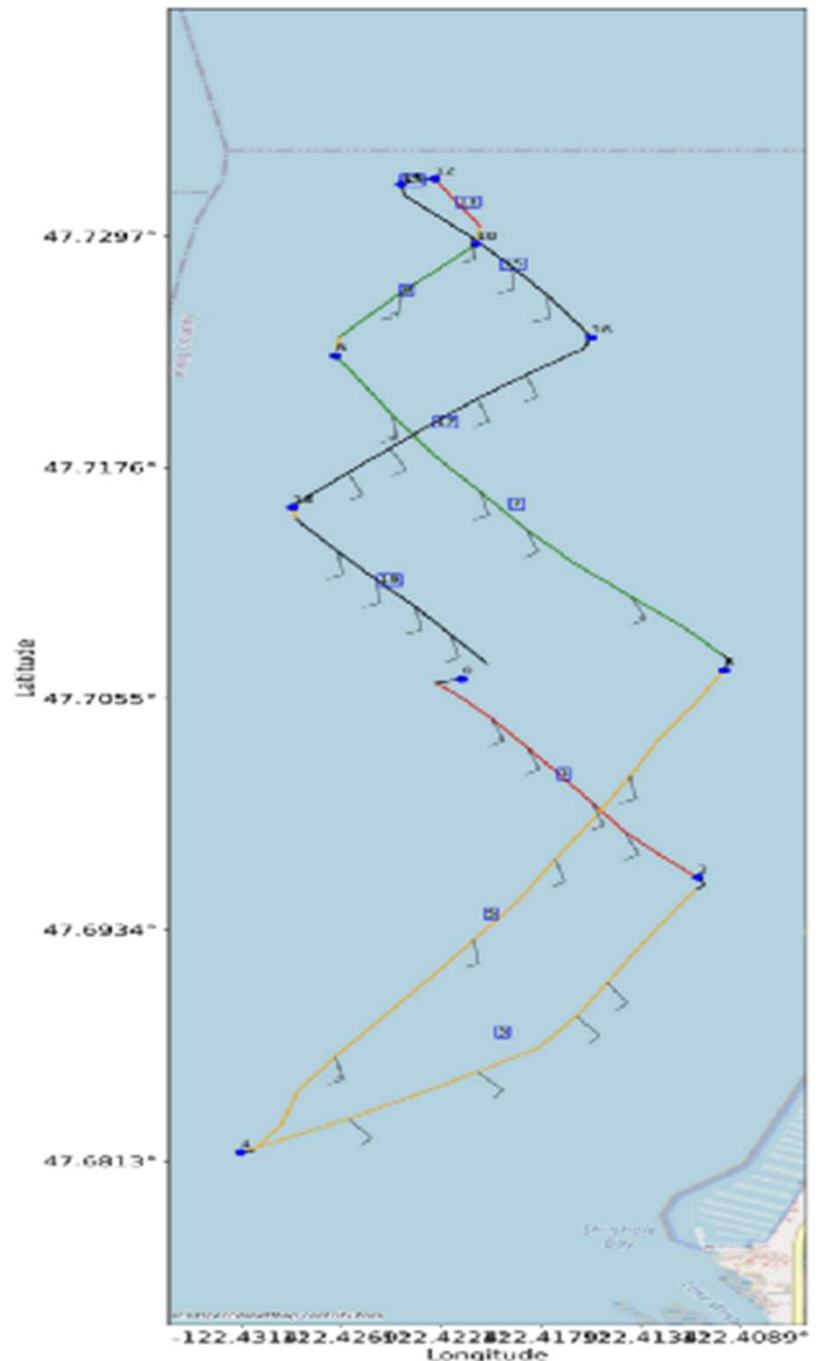


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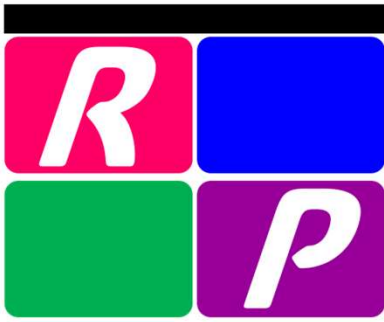
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## Section 2: Course Performance

This chart shows your tracks today, colored by either **TARGET %** or **POLAR %**. The wind barbs show the direction and speed, and each event” is numbered so that you can refer to it later. This will be handy later







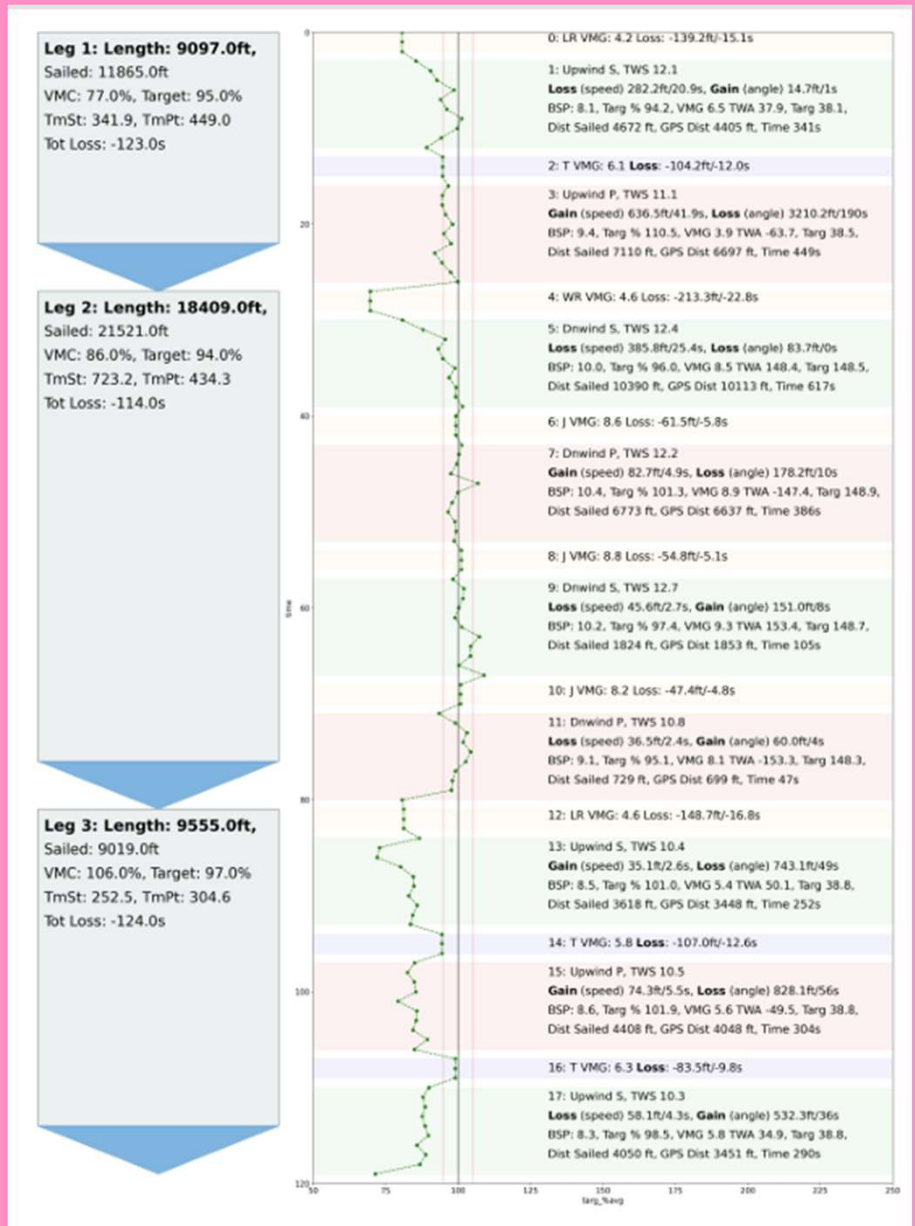
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## Section 3: Race Recap

The Race Recap is our way of showing you your total race performance in a simple to understand way. Everything is measured against a goal (the black vertical line) and you are either ahead of that goal (right of the line) or behind it (left of the line). Details about each event is available in the boxes. The key takeaways from this are that your focus should be on those things that are on the left side. Simply scanning the Race Recap can get you to the 2 things you could do better for tomorrow. For example, in this race Leg 3 was slow, perhaps a sail change or gear change was in order before you went upwind?

Finally, if you see “gaps” in the green line, it’s due to gaps in the data.





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## Section 4: Tack/Jibe Comparisons

For the comparisons, we overlay all of your tacks over each other to help you look for coinsistency. For example, if you saw that the tack in event 14 was slower than the rest, you can compare it to the others. You can see from the BSP chart that you started the tack normally, but then didn’t begin accelerating until later than normal. If you look at your “performance variables” you can see that your TWA got higher than normal quickly. But your forestay was fully loaded, indicating that perhaps the mainsheet was a little too tight initially causing the boat to heel before it got moving.

Same comparisons are there for jibes as well

### Tack Comparisons

All tacks in the race are graphed in terms of speed loss. We score tacks based on “The least VMG loss relative to targets” basically, we look at your total VMG for the tack, Your **Target VMG** for this TWS, and an “expected loss” for a tack at this TWS. The best VMG tack is bolded.

The **Tack BSP** graph shows all of your tacks only on boatspeed

The **Best Tack** BSP v. graph compares your best tack to your “typical” tack in this race, again, focusing only on boatspeed

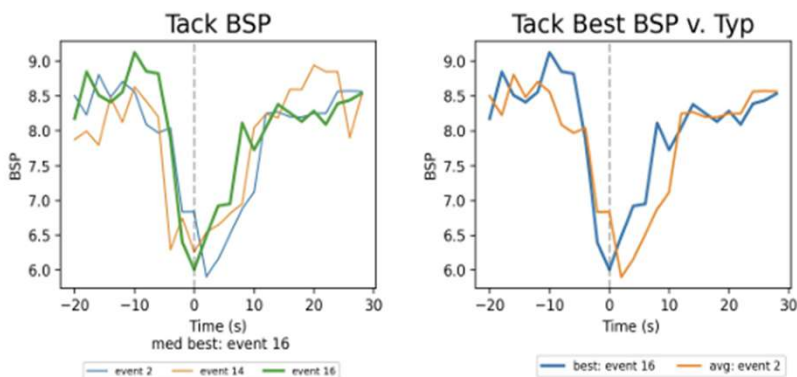
The table below the graph shows you the speeds and angles that went into the individual tack performances.

Part of the overall analysis is to break the tack down into loss due to reduced speed, and loss due to too wide of an angle.

Balancing the distance lost due to lower speed vs loss due to the angle sailed is an important factor in optimizing tack performance. The total loss analysis subtracts your expected loss from your actual loss.

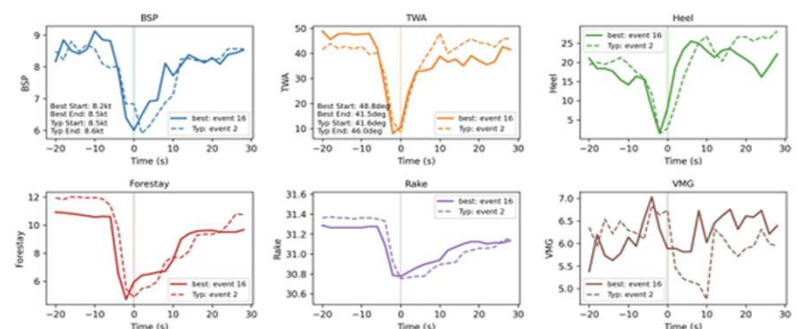
Finally, the “performance variables” graphs show secondary datastreams such as heel, rudder or loadcells during the tack and can be helpful in looking at crew actions during the maneuver.

Note: The “0” line on the graphs represents the time when the boat was head to wind.



Event	POS	BSP	Targ BSP	Pul %	Pul %	TWA	Targ TWA	TWS	vmg BSP	vmg Targ	vmg Pul	vmg dist	vmg Targ	vmg Pul	vmg percent	Targ time	Actual time	Tack time	Expected loss	Seconds per second loss	gps dist(%)	BSP dist(%)	Targ dist(%)	gpa %
16	S	8.0	--	--	--	--	10.4	109.9	6.3	6.7	6.8	94.9	-83.5	-9.8	47.4	--	--	--	--	--	--	--	--	--
2	P	7.9	--	--	--	--	11.7	157.7	6.1	6.8	6.7	89.4	-104.2	-12.0	46.4	--	--	--	--	--	--	--	--	--
14	P	7.9	--	--	--	--	10.2	176.0	5.8	6.6	6.4	88.6	-107.0	-12.6	47.5	--	--	--	--	--	--	--	--	--

### Tack Best v. Typ Event Performance Variables









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## Section 6: Instrument Data Quality

All of this analysis is based on the instruments recording what actually happened. The Regatta quality section help you understand the overall level of confidence you should have in your data. It helps in understanding your real wind speeds and angles vs those reported, and what changes might be warranted to make them better in the future.

### Instrument Data Quality Assessment

The following tables look at straight line data just prior and just after the tack events. This is typically around 20 seconds prior to the tack and 40 seconds after the tack and depends on your performance settings. The data is sorted by wind speed. This base data can be used to evaluate TWA correction tables, Wand offsets or compass issues.

#### Upwind Data

The tables below presents your upwind data only. The first table is an average of all qualifying tacks, while the table below it shows each tack individually. Tacks present a good opportunity to evaluate your masthead unit offset (MWA), TWA BSP and HDG calibrations.

				TWA In		TWA Out		dHdgCog In		dHdgCog Out									
				Port		-53.8		40.0		-9.1		1.3							
				Starboard		45.5		-43.2		-0.6		-9.6							
Event #	Event #	TWS In	TWS Out	TWA In	TWA Out	MWA In	MWA Out	HDG In	HDG Out	HDG Tack Angle	dHdgCog In	dHdgCog Out	TWA Tack Angle	Angle Difference	TWD In	TWD Out	TWD Shift		
0	1	3	7.8	10.9	52.2	50.8	103.0	22.5	24.9	93.1	162.0	68.9	-4.0	-10.0	103.0	-34.1	140.3	113.2	27.1
1	13	15	9.2	10.7	59.1	41.2	100.3	25.4	19.4	154.7	82.8	82.0	-11.0	1.3	100.3	-18.4	106.9	119.2	-12.3
2	11	13	11.2	10.3	47.7	-42.7	90.3	22.4	23.3	79.8	154.5	74.7	3.3	-6.2	90.3	-15.6	122.3	112.2	10.1
3	15	17	11.3	12.9	39.2	-41.6	80.8	17.0	20.1	90.8	157.8	67.0	-0.7	-9.8	80.8	-13.8	125.8	117.7	8.1
4	23	25	11.5	13.9	-48.4	38.7	87.2	21.2	21.0	171.1	103.7	67.3	-7.2	1.3	87.2	-19.8	124.8	137.1	-12.3
5	25	27	12.7	10.9	42.9	-37.8	80.7	23.5	20.0	101.7	167.9	66.2	-0.9	-12.8	80.7	-14.6	139.5	135.6	3.9

#### Downwind Data

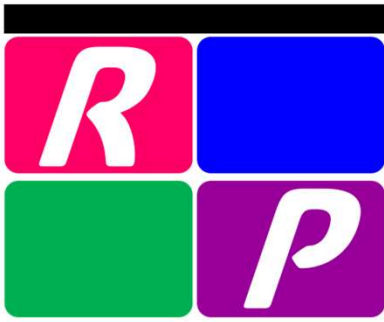
The tables below presents your downwind data only. The first table is an average of all qualifying jibes, while the table below it shows each jibe individually. Jibes present a good opportunity to evaluate your TWA, BSP and HDG calibrations.

				TWA In		TWA Out		dHdgCog In		dHdgCog Out							
				Port		-153.5		153.4		6.2		-79.6					
				Starboard		140.7		-145.5		-321.3		8.1					
Event #	Event # out	TWS In	TWS Out	TWA In	TWA Out	TWA Diff	HDG In	HDG Out	HDG Jibe Angle	dHdgCog In	dHdgCog Out	TWA Jibe Angle	Angle Difference	TWD In	TWD Out	TWD Shift	
0	17	19	10.6	10.1	140.7	-145.5	286.1	30.4	275.2	115.2	-321.3	8.1	73.9	41.3	146.5	131.5	15.0
1	19	21	13.8	17.6	-152.3	151.6	303.8	274.2	179.7	94.5	6.1	-167.6	56.2	38.3	125.6	152.1	-26.5
2	7	9	14.5	11.0	-154.7	155.1	309.8	287.0	347.7	60.7	6.2	8.3	50.2	10.5	134.7	147.6	-12.9

#### Rounding Data

The tables below presents your rounding data only. The first table is an average of all qualifying events, while the table below it shows each event individually. Roundings are a good opportunity to look for wind speed changes due to upwash or incorrect TWA corrections.

		TWS In		TWS Out		dHdgCog In		dHdgCog Out								
		Port		9.8		10.3		-7.5		-42.6						
		Starboard		11.5		10.6		-4.1		0.6						
Event # in	Event # out	TWS In	TWS Out	Type	dHdgCog In	dHdgCog Out	TWD In	TWD Out	TWD Shift	BSP In	BSP Out	dBSP	SOG In	SOG Out	dBSP	SOG Out
4	21	23	9.2	10.3	LR	10.7	0.2	133.4	126.5	6.9	6.6	6.5	-0.1	7.8	6.7	-1.1
1	0	1	9.8	9.9	LR	-14.8	-42.8	113.8	130.2	-16.4	5.4	5.2	-0.2	8.2	8.7	0.5
0	3	5	10.4	10.3	WR	-25.6	-85.5	111.9	135.6	-23.7	8.2	7.5	-0.7	8.7	8.8	0.1
2	5	7	11.9	11.6	LR	2.4	44.1	146.6	138.0	8.6	8.9	9.1	0.2	7.2	7.5	0.3
3	9	11	12.7	10.2	LR	0.1	0.5	149.5	118.5	31.0	9.3	9.6	0.3	6.8	6.5	-0.3



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## Section 7: Leg Details

Sometimes getting a closer look at the individual legs can help understand specific issues. This is especially true when you have a multi lap course and the tracks all overlay. This view breaks down each leg and the performance of each event within it.

