avg_TWD	138.01	TWD averaged for the entire event	True Wind Direction. Mostly used during the instrument assessment
avg_VMG_BSP	3.74	averaged VMG based on BSP	the preferred source for this is the Expedition file, If it's not present we will calculate it
avg_VMG_targ	7.71	averaged VMG based on Target BSP	the preferred source for this is the Expedition file, If it's not present we will calculate it
avg_VMG_targ_ percent	48.48	averaged VMG as a percent of BSP	Same as above
avg_VMG_polar	5.59	averaged VMG as a percent of POLAR BSP	Same as above
avg_VMG_BSP_dist	3.80	accumulated actual VMG distance	The distance you travelled to weather using VMG
avg_VMG_targ_dist	9.65	target speed projected distance	The distance you travelled to weather using VMG if you were at target speed and angle
avg_VMG_polar_dist	9.87	polar speed projected distance	The distance you travelled to weather using VMG if you were at polar speed and angle
VMG_distance_loss	-133.01	this is the distance between you being at 100%vmg and the event actual VMG	This is the basis of the S event loss
VMG_time_loss	-13.78	this is the time difference between you being at 100%vmg and the event actual VMG	VMG_distance_loss expressed in seconds @ target speed
gps_distance (ft)	136.87	the distance between the beginning and end of the event.	for straights, this is the minimum distance you could have covered, and we report it as such
actual_distance (ft)	379.85	the distance traveled using BSP, not SOG	this is the distance basis for all of our calculations
target_distance (ft)	537.52	target speed projected distance	we actually accumulate this for each record, then sum it all up for the event.
diff_btwn_gps_ actual_dist (ft)	-242.98	Distance between your position at the beginning of the event and the end minus the BSP distance accumulated.	This reveals the “efficiency” of your straight line. May also indicate current or BSP calibration issue
target_time (s)	18.79	time to travel this distance at target speed	Used in loss calculations
polar_time (s)	8.00	time to travel this distance at polar speed	Used for loss calculations when you are between your fetch and run angles
actual_time (s)	32.49	time in seconds elapsed during this event	

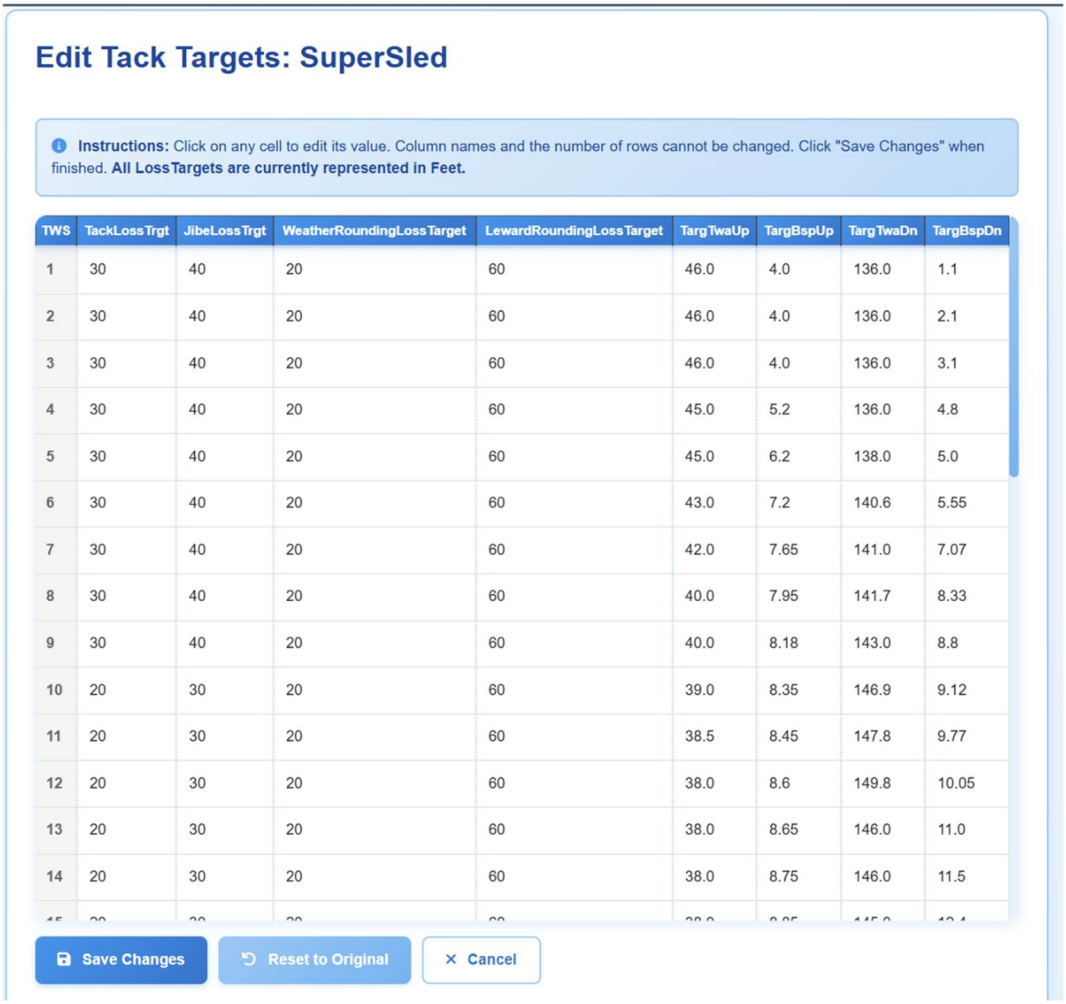
diff_btwn_targ_time _act_time_test	22.44	Time this should have taken at target speed and the actual time	
diff_btwn_pol_time _actual_time (s)	-24.48	Time this should have taken at polar speed and the actual time	
diff_btwn_pol_time _actual_time_test	17.42	Not useful at this time	
TWA_angle_loss_time (s)	4.43	If you are in VMG mode, this is the time lost or gained by deviating from your target TWA	Useful when looking at BSP vs TWA tradeoffs. Not used in any calculations for loss but an indicator as to whether running deeper or pointing higher was useful.
TWA_angle_loss_ distance	79.27	Above expressed as distance	
expected_man_loss	60	Expected maneuver loss from tack targets table	This is how we set up “expectations” for maneuvers and it is added to your maneuver time loss to give you a net gain/loss relative to expectations.
seconds_per_second _loss	0.690699	Gains/losses divided by the number of seconds in the event.	

Targets Table Explained

One of the things we do differently here at regatta-playbook is measure you against expectations. For straight lines those expectations can come directly from your polars, and hopefully directly from your Expedition data file. However, sometimes it can't, and even Expedition doesn't capture other elements. To solve this we have created the "targets table" It contains our "expectations" for your performance and is used as the baseline performance measures, so it's important that is up to date.

The table is organized by TWS, and has expected "losses" for each type of maneuver. Currently, it's entered in feet, so sorry you Si fans. Additionally, it has target BSP and TWA entries in case your system doesn't provide them.

To edit the file, simple select BOATS->QUICK ACTIONS..EDIT TACK TARGETS. The table can also be updated using the data from "Polar" graphic in the analysis section. ANALYSIS->POLAR



TWS	TackLossTrgt	JibeLossTrgt	WeatherRoundingLossTarget	LewardRoundingLossTarget	TargTwaUp	TargBspUp	TargTwaDn	TargBspDn
1	30	40	20	60	46.0	4.0	136.0	1.1
2	30	40	20	60	46.0	4.0	136.0	2.1
3	30	40	20	60	46.0	4.0	136.0	3.1
4	30	40	20	60	45.0	5.2	136.0	4.8
5	30	40	20	60	45.0	6.2	138.0	5.0
6	30	40	20	60	43.0	7.2	140.6	5.55
7	30	40	20	60	42.0	7.65	141.0	7.07
8	30	40	20	60	40.0	7.95	141.7	8.33
9	30	40	20	60	40.0	8.18	143.0	8.8
10	20	30	20	60	39.0	8.35	146.9	9.12
11	20	30	20	60	38.5	8.45	147.8	9.77
12	20	30	20	60	38.0	8.6	149.8	10.05
13	20	30	20	60	38.0	8.65	146.0	11.0
14	20	30	20	60	38.0	8.75	146.0	11.5