

RACE ANALYSIS REPORT

Sail Newport 2026 - IC37 Day 2

CLASS

Other

DATE

7/12/2026

RACES

1

VELOCITEK

POWERED BY SAILSYNC.AI



SCAN FOR RACE REPLAY AND AI FEEDBACK



Upwind VMG Variety: Boats with the top average VMG early in the first upwind leg split between right and middle sides—no single side dominated. The overall winner (ReefAnchor) went right on leg 1 then shifted toward the middle on leg 3 to find cleaner pressure.

Starts & Line Position: Winners tended to cross around 30-70% of the line (middle) with a small positive bias vs. mid-line, giving enough clear air without crowd. No boat was OCS, but those farther from the midline saw less bias benefit.

First-Leg Momentum: The boat fastest to mark 1 on leg 1 held or extended that lead through the race. Getting clear pressure and a clean lane on the first upwind marked the winner's edge.

Boat Trade-Offs: High raw VMG (e.g. StarHammer) didn't win when paired with extra tacks. Boats that balanced solid VMG with fewer maneuvers (ReefAnchor, CrewMarina) outpaced raw-speed specialists.

FLO'S COACHING INSIGHTS

BOAT	STRENGTH	WEAKNESS
020_CrewMarina_2026-07-12_full	Strong early upwind pace gave quick cover on the first leg.	Dropped off slightly on the second upwind and lost some VMG consistency.
016_PortBeacon_2026-07-12_full	Excellent downwind speed and clean gybes.	Too many tacks early upwind cost time against top VMG boats.
015_PortFathom_2026-07-12_full	High gate VMG and powered through downwind with speed.	Slow to mark 1 on the first upwind and played catch-up.
014_FogBulwark_2026-07-12_full	Smooth, controlled tacks and heel kept boat in phase.	Lower average VMG on upwind legs limited gains.
028_WaveDepths_2026-07-12_full	Solid VMG on reaches and broad downwinds.	Struggled to maintain speed on port-tack upwind shifts.
022_HarborReef_2026-07-12_full	Consistent VMG and minimal wiggle kept boat in play.	Start position varied and lacked the initial bias boost.
002_AftSkipper_2026-07-12_full	Good balance of angle and VMG on upwind legs.	Started very late to the line, costing early ground.
031_FleetWaves2026-07-12_full	Top spread-reach VMG and power through choppy puffs.	First upwind leg was slow, so recovery was too hard.
008_WavePaddle_2026-07-12_full	Best downwind gains and strong gybe angles.	Average upwind VMG limited position advances.
027_BowSkipper_2026-07-12_full	Strong midrace VMG leaps to close gaps.	Middle-of-the-line start offered little bias advantage.
005_BayBreaker_2026-07-12_full	Fastest gate-to-finish split showed downwind punch.	Upwind tacking sequence was too frequent and slow.
023_ReefAnchor_2026-07-12_full	Outstanding clear air off the start with steady VMG.	Middle choice on leg 3 was slightly risky and could pinch speed.
011_StarHammer_2026-07-12_full	Highest first-leg mark VMG on a clean lane.	Extra maneuvers on subsequent legs ate into its lead.
007_SeaMariner_2026-07-12_full	Powerful reach VMG and strong angle through shifts.	Final downwind lacked top speed to hold positions.

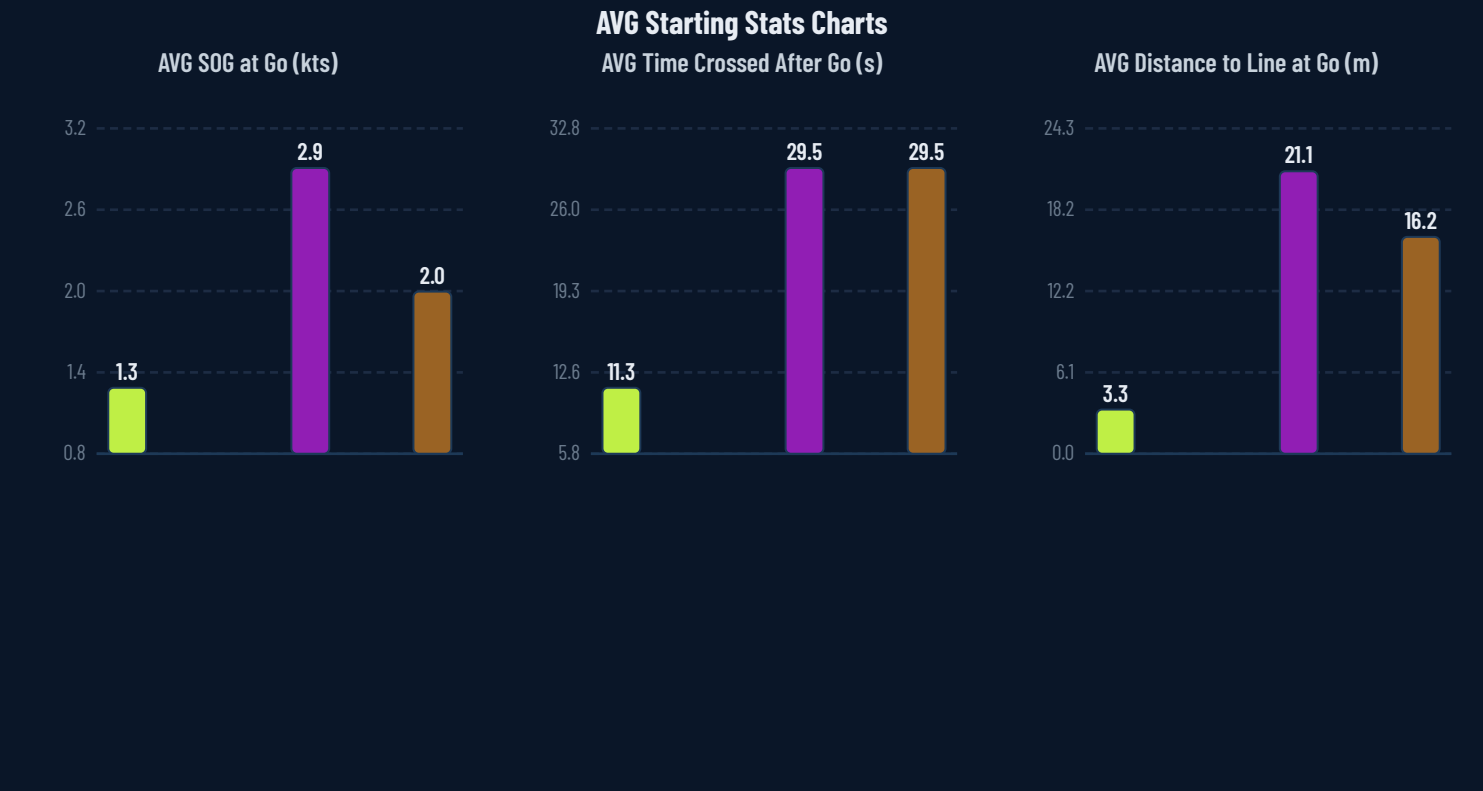
RESULTS

#	BOAT	R4	TOTAL
1	 023_ReefAnchor_2026-07-12_full	1	1
2	 007_SeaMariner_2026-07-12_full	2	2



3		011_StarHammer_2026-07-12_full	3	3
4		005_BayBreaker_2026-07-12_full	4	4
5		008_WavePaddle_2026-07-12_full	5	5
6		020_CrewMarina_2026-07-12_full	6	6
7		027_BowSkipper_2026-07-12_full	7	7
8		022_HarborReef_2026-07-12_full	8	8
9		016_PortBeacon_2026-07-12_full	9	9
10		009_HullDrogue_2026-07-12_full	10	10
11		014_FogBulwark_2026-07-12_full	11	11
12		015_PortFathom_2026-07-12_full	12	12
13		028_WaveDepths_2026-07-12_full	13	13
14		002_AftSkipper_2026-07-12_full	14	14
15		031_FleetWaves2026-07-12_full	15	15
16		013_CrewAnchor_2026-07-12_full	DNF	18
17		BowWetsuit_2026-07-12_full	DNS	18

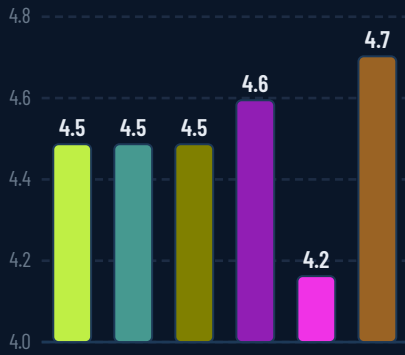
OVERALL PERFORMANCE CHARTS



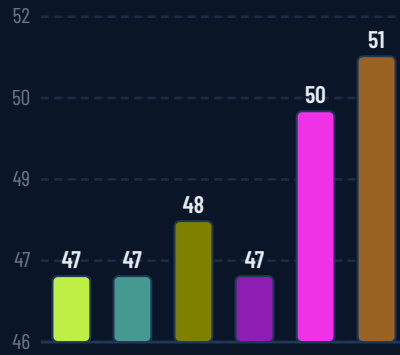


AVG Upwind Charts

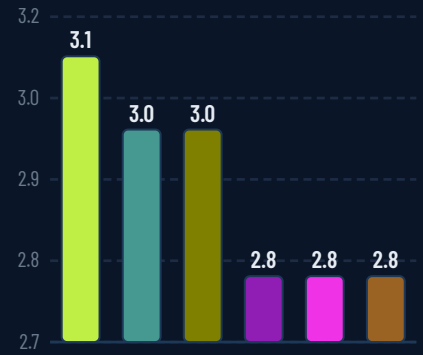
Upwind SOG (kts)



Upwind TWA (°)

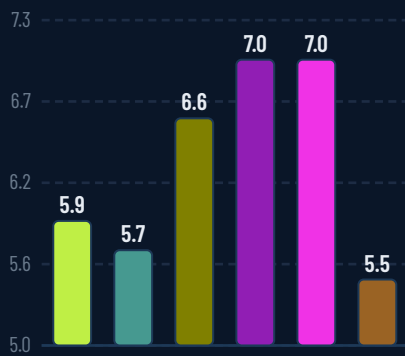


Upwind Mark VMG (kts)

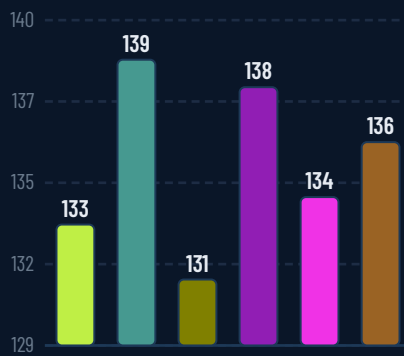


AVG Downwind Charts

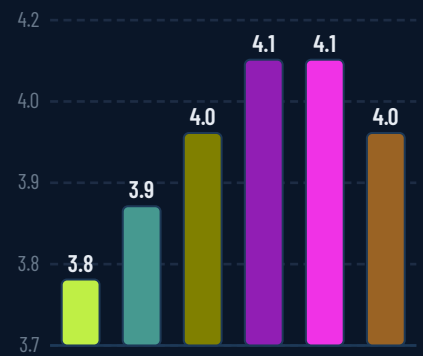
Downwind SOG (kts)



Downwind TWA (°)



Downwind Mark VMG (kts)



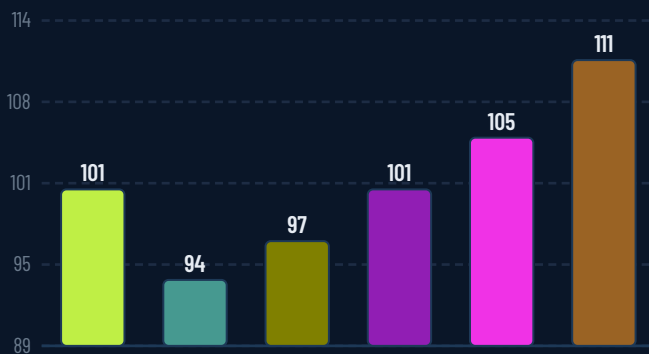
023_ReefAnchor_2026-07-12_full 007_SeaMariner_2026-07-12_full 011_StarHammer_2026-07-12_full 005_BayBreaker_2026-07-12_full
008_WavePaddle_2026-07-12_full 020_CrewMarina_2026-07-12_full

Performance metrics (SOG, VMG, TWA) use straight-line segments only — excluding maneuvers (± 10 s) and the first/last 5s of each leg.

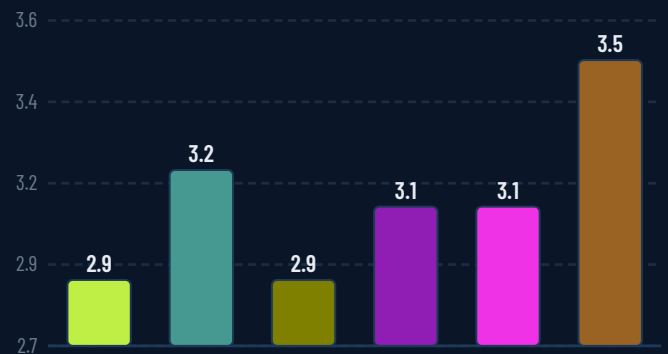
UPWIND MANEUVER ANALYSIS

Upwind Maneuver Charts

AVG Tacking Angle (°)



AVG VMG ± 5 s (kts)





023_ReefAnchor_2026-07-12_full

007_SeaMariner_2026-07-12_full

011_StarHammer_2026-07-12_full

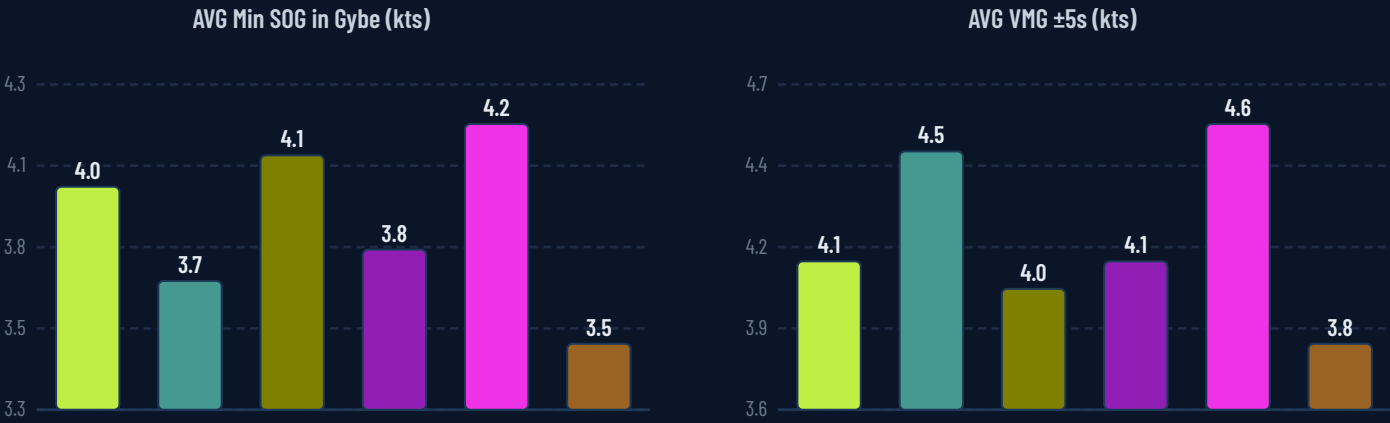
005_BayBreaker_2026-07-12_full

008_WavePaddle_2026-07-12_full

020_CrewMarina_2026-07-12_full

DOWNWIND MANEUVER ANALYSIS

Downwind Maneuver Charts



023_ReefAnchor_2026-07-12_full

007_SeaMariner_2026-07-12_full

011_StarHammer_2026-07-12_full

005_BayBreaker_2026-07-12_full

008_WavePaddle_2026-07-12_full

020_CrewMarina_2026-07-12_full



04

RACE FOUR

• START 08:14:36

FLO'S RACE INSIGHTS

Leg 1 vs the Finish: StarHammer got the early lead from the middle, but its many tacks ate into that advantage on later upwinds.

ReefAnchor's Charge: By crossing near mid-line with clean air, sailing right then shifting sides, and keeping tacks to a minimum, ReefAnchor overtook StarHammer on the third leg and held on to win.

Side-Switch Strategy: The winner didn't stick to one side. Right on leg 1, left on leg 2, middle on leg 3 – staying in clear lanes paid off.

Fewer Maneuvers, Steadier VMG: Boats that balanced solid speed with only a few tacks (ReefAnchor, CrewMarina) outpaced those with raw speed but extra maneuvers.

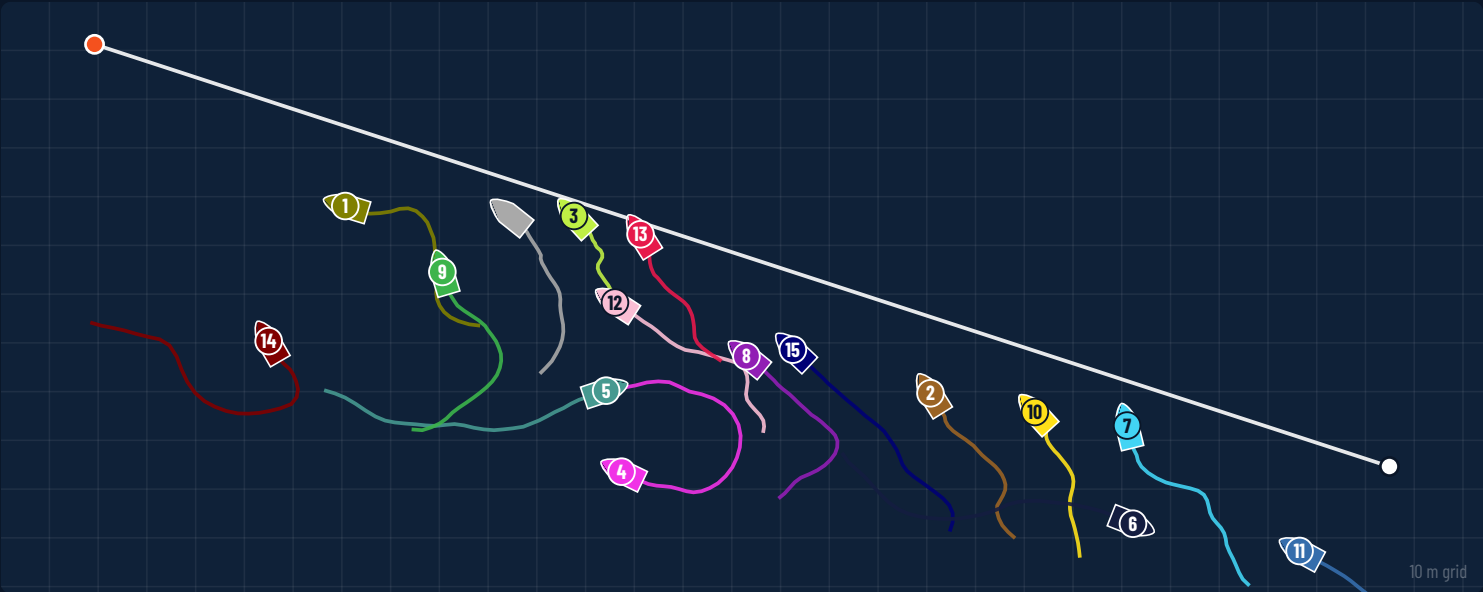
RACE 4 – FULL RACE SUMMARY

RANK	BOAT	DISTANCE	TIME	UPWIND SOG	UPWIND VMG	DOWNWIND SOG	DOWNWIND VMG	MAN.
1.	 023_ReefAnchor_2026-07-12_full	9093.4m	01:00:06	4.5kts	3.1kts	5.9kts	3.8kts	16
2.	 007_SeaMariner_2026-07-12_full	+80.3m	+00:00:40	4.5kts	3.0kts	5.7kts	3.9kts	31
3.	 011_StarHammer_2026-07-12_full	+516.1m	+00:00:49	4.5kts	3.0kts	6.6kts	4.0kts	19
4.	 005_BayBreaker_2026-07-12_full	+178.2m	+00:00:56	4.6kts	2.8kts	7.0kts	4.1kts	21
5.	 008_WavePaddle_2026-07-12_full	+545.7m	+00:01:16	4.2kts	2.8kts	7.0kts	4.1kts	14
6.	 020_CrewMarina_2026-07-12_full	+519.4m	+00:01:33	4.7kts	2.8kts	5.5kts	4.0kts	15
7.	 027_BowSkipper_2026-07-12_full	+308.2m	+00:01:37	4.6kts	2.8kts	5.9kts	4.0kts	20
8.	 022_HarborReef_2026-07-12_full	+1006.7m	+00:01:54	4.2kts	2.6kts	5.8kts	4.0kts	19
9.	 016_PortBeacon_2026-07-12_full	+878.8m	+00:02:19	4.3kts	2.8kts	6.4kts	4.2kts	17
10.	 009_HullDrogue_2026-07-12_full	+27.6m	+00:03:06	4.4kts	2.7kts	5.3kts	4.2kts	17
11.	 014_FogBulwark_2026-07-12_full	-284.6m	+00:03:20	3.9kts	2.7kts	5.4kts	4.0kts	13
12.	 015_PortFathom_2026-07-12_full	-85.6m	+00:03:33	4.0kts	2.6kts	6.2kts	4.2kts	25
13.	 028_WaveDepths_2026-07-12_full	-150.9m	+00:04:05	4.0kts	2.7kts	5.0kts	4.0kts	13
14.	 002_AftSkipper_2026-07-12_full	+400.6m	+00:04:26	4.2kts	2.8kts	6.0kts	3.7kts	25
15.	 031_FleetWaves2026-07-12_full	+97.8m	+00:07:16	3.7kts	2.5kts	5.2kts	3.8kts	24

Performance metrics (SOG, VMG, TWA) use straight-line segments only – excluding maneuvers (±10s) and the first/last 5s of each leg.



RACE 4 – START REPORT



10 m grid — map scale reference

Boat numbers = **Mark 1 rounding order** — match the Leg 1 Rank column below

FAVORED END

Pin (86.5m)

LINE LENGTH

279.1m

WIND

305.0°

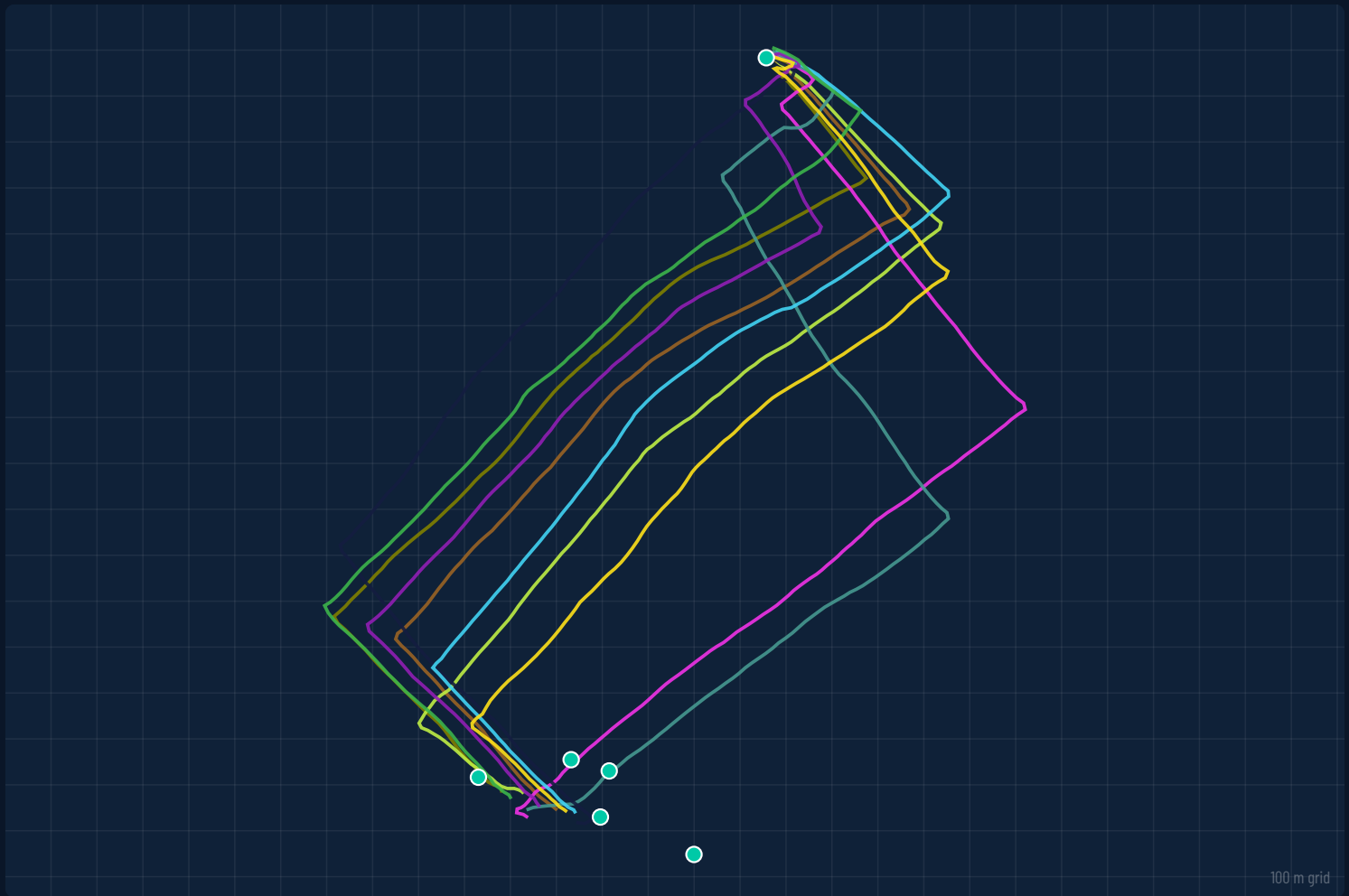
COMM TO M1

317.3°

LEG 1 RANK	BOAT	DIST TO LINE	SOG AT GO	START DELAY	POSITION ON LINE	TACK AT GO
1.	011_StarHammer_2026-07-12_full	17.0m	3.0kts	36.0s		starboard
2.	020_CrewMarina_2026-07-12_full	16.2m	2.0kts	29.5s		starboard
3.	023_ReefAnchor_2026-07-12_full	3.3m	1.3kts	11.3s		starboard
4.	008_WavePaddle_2026-07-12_full	54.2m	2.9kts	60.0s		starboard
5.	007_SeaMariner_2026-07-12_full	38.1m	3.8kts	41.0s		port
6.	028_WaveDepths_2026-07-12_full	29.9m	4.6kts	31.0s		port
7.	022_HarborReef_2026-07-12_full	9.5m	2.2kts	18.3s		starboard
8.	005_BayBreaker_2026-07-12_full	21.1m	2.9kts	29.5s		starboard
9.	009_HullDrogue_2026-07-12_full	24.2m	2.2kts	36.0s		starboard
10.	027_BowSkipper_2026-07-12_full	13.0m	1.6kts	25.0s		starboard
11.	016_PortBeacon_2026-07-12_full	24.1m	4.0kts	27.0s		starboard
12.	002_AftSkipper_2026-07-12_full	18.8m	3.5kts	48.0s		starboard
13.	014_FogBulwark_2026-07-12_full	2.5m	1.4kts	10.3s		starboard
14.	031_FleetWaves2026-07-12_full	50.9m	2.6kts	94.0s		starboard



RACE 4 – LEG 1 (UPWIND)



LEG RANK		BOAT	TIME	DISTANCE	SOG	AVG TWA	MARK VMG	SIDE	MAN.
1.		011_- StarHammer_2026-07-12_full	00:18:54	2428.2m	4.2kts	48.0°	3.0kts	middle	6
2.		020_- CrewMarina_2026-07-12_full	+00:00:21	2457.1m	4.2kts	47.6°	2.9kts	left	2
3.		023_- ReefAnchor_2026-07-12_full	+00:00:29	2399.0m	4.0kts	47.5°	2.9kts	right	2
4.		008_- WavePaddle_2026-07-12_full	+00:00:38	2515.5m	4.2kts	48.6°	2.9kts	right	4
5.		007_- SeaMariner_2026-07-12_full	+00:00:46	2519.9m	4.2kts	48.9°	2.9kts	right	3
6.		028_- WaveDepths_2026-07-12_full	+00:00:54	2379.1m	3.9kts	44.8°	2.9kts	left	3
7.		022_- HarborReef_2026-07-12_full	+00:00:58	2506.2m	4.1kts	47.6°	2.8kts	middle	2



8.		005_- BayBreaker_2026-07-12_full	+00:01:18	2437.3m	3.9kts	46.9°	2.8kts	left	4
9.		009_- HullDrogue_2026-07-12_full	+00:01:25	2433.0m	3.9kts	47.6°	2.7kts	left	2
10.		027_- BowSkipper_2026-07-12_full	+00:01:30	2426.8m	3.9kts	47.0°	2.7kts	right	4
11.		016_- PortBeacon_2026-07-12_full	+00:01:50	2672.7m	4.2kts	51.1°	2.7kts	right	8
12.		002_- AftSkipper_2026-07-12_full	+00:01:58	2619.0m	4.1kts	53.0°	2.7kts	left	6
13.		014_- FogBulwark_2026-07-12_full	+00:02:17	2460.4m	3.8kts	48.4°	2.6kts	middle	4
14.		031_- FleetWaves2026-07-12_full	+00:02:47	2458.2m	3.7kts	47.6°	2.6kts	right	8
15.		015_- PortFathom_2026-07-12_full	+00:03:50	2781.5m	4.0kts	53.6°	2.4kts	right	6

Performance metrics (SOG, VMG, TWA) use straight-line segments only – excluding maneuvers (±10s) and the first/last 5s of each leg.

RACE 4 – LEG 2 (DOWNWIND)





LEG RANK		BOAT	TIME	DISTANCE	SOG	AVG TWA	MARK VMG	SIDE	MAN.
1.		005_- BayBreaker_2026-07-12_full	00:11:36	2283.4m	8.7kts	140.0°	4.5kts	left	6
2.		008_- WavePaddle_2026-07-12_full	+00:00:17	2436.5m	7.8kts	132.6°	4.4kts	left	2
3.		009_- HullDrogue_2026-07-12_full	+00:00:35	2107.0m	5.7kts	138.2°	4.3kts	left	3
4.		015_- PortFathom_2026-07-12_full	+00:00:35	2296.4m	7.1kts	139.2°	4.3kts	left	2
5.		007_- SeaMariner_2026-07-12_full	+00:00:47	2056.7m	5.9kts	141.4°	4.2kts	left	5
6.		022_- HarborReef_2026-07-12_full	+00:00:50	2453.4m	5.4kts	133.9°	4.2kts	left	1
7.		016_- PortBeacon_2026-07-12_full	+00:00:59	2520.1m	6.1kts	130.3°	4.2kts	left	1
8.		023_- ReefAnchor_2026-07-12_full	+00:01:11	2472.4m	6.7kts	129.1°	4.0kts	left	3
9.		011_- StarHammer_2026-07-12_full	+00:01:17	2542.8m	7.0kts	129.6°	4.1kts	left	1
10.		028_- WaveDepths_2026-07-12_full	+00:01:35	2282.4m	4.8kts	136.3°	3.9kts	left	4
11.		027_- BowSkipper_2026-07-12_full	+00:01:35	2240.7m	5.9kts	133.8°	3.9kts	left	3
12.		014_- FogBulwark_2026-07-12_full	+00:01:42	2289.5m	5.3kts	134.5°	4.0kts	left	3
13.		020_- CrewMarina_2026-07-12_full	+00:01:56	2514.6m	5.8kts	129.7°	3.9kts	left	5
14.		031_- FleetWaves2026-07-12_full	+00:02:36	2668.6m	5.5kts	126.0°	3.6kts	left	5
15.		002_- AftSkipper_2026-07-12_full	+00:02:55	2383.5m	4.9kts	134.2°	3.5kts	left	7

Performance metrics (SOG, VMG, TWA) use straight-line segments only – excluding maneuvers (±10s) and the first/last 5s of each leg.



RACE 4 – LEG 3 (UPWIND)



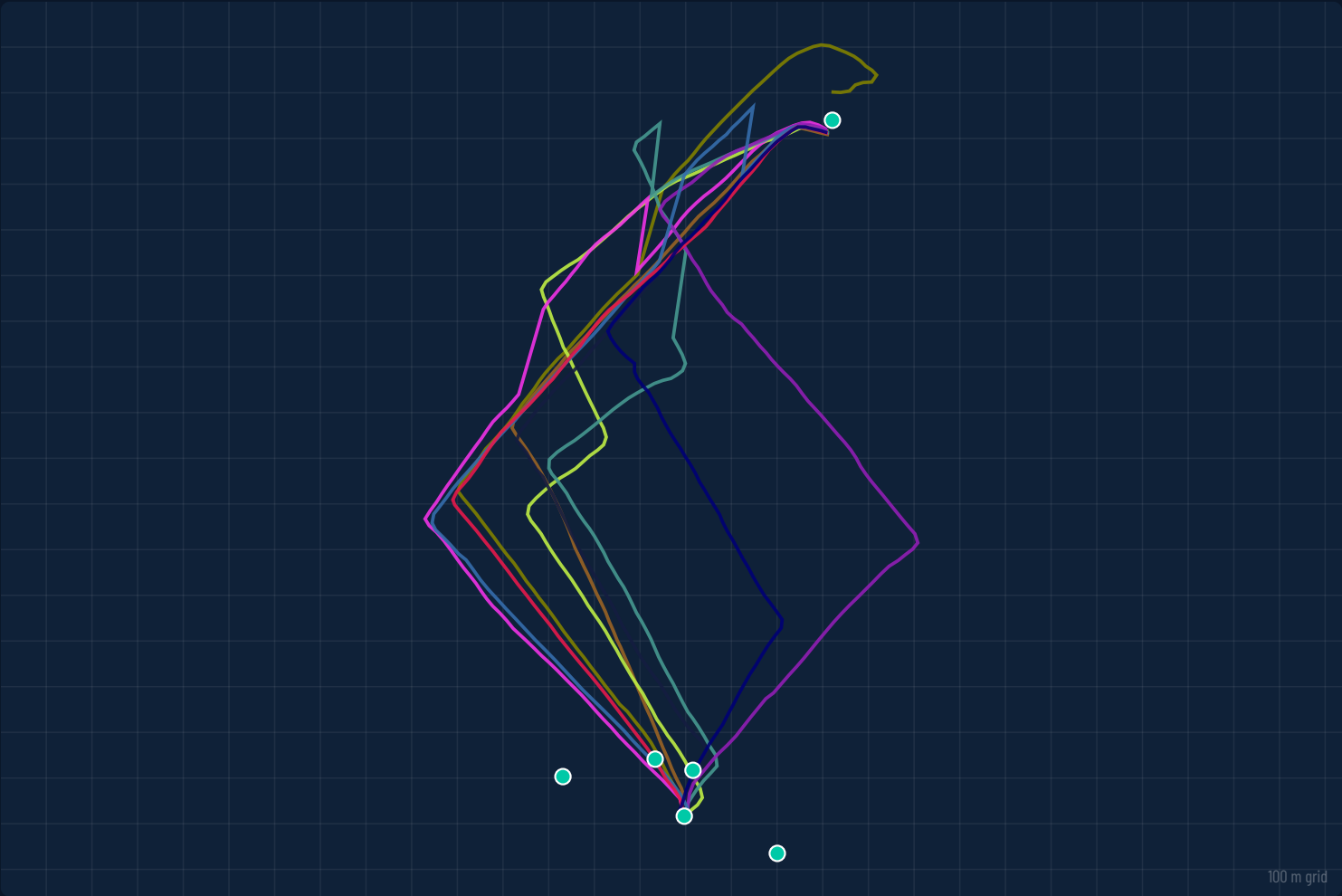
LEG RANK		BOAT	TIME	DISTANCE	SOG	AVG TWA	MARK VMG	SIDE	MAN.
1.		023_- ReefAnchor_2026-07-12_full	00:14:23	2096.7m	5.0kts	46.7°	3.3kts	middle	7
2.		007_- SeaMariner_2026-07-12_full	+00:00:29	2120.0m	4.8kts	44.2°	3.2kts	right	13
3.		027_- BowSkipper_2026-07-12_full	+00:00:38	2514.0m	5.4kts	45.1°	2.9kts	left	7
4.		011_- StarHammer_2026-07-12_full	+00:01:00	2226.8m	4.8kts	47.6°	3.1kts	left	10
5.		005_- BayBreaker_2026-07-12_full	+00:01:39	2406.2m	5.3kts	48.0°	2.9kts	right	9
6.		014_- FogBulwark_2026-07-12_full	+00:02:13	2012.0m	3.9kts	45.4°	2.8kts	right	5
7.		002_- AftSkipper_2026-07-12_full	+00:02:18	2220.0m	4.3kts	49.0°	2.9kts	left	7
8.		015_- PortFathom_2026-07-12_full	+00:02:21	2027.7m	3.9kts	44.2°	2.8kts	right	11



9.		009_- HullDroque_2026-07-12_full	+00:02:32	2377.7m	4.9kts	50.1°	2.7kts	left	4
10.		020_- CrewMarina_2026-07-12_full	+00:02:38	2730.9m	5.2kts	55.2°	2.8kts	left	6
11.		008_- WavePaddle_2026-07-12_full	+00:02:40	2212.3m	4.2kts	51.7°	2.8kts	left	4
12.		016_- PortBeacon_2026-07-12_full	+00:02:50	2317.4m	4.4kts	51.1°	2.8kts	middle	5
13.		022_- HarborReef_2026-07-12_full	+00:02:55	2592.5m	4.3kts	52.4°	2.5kts	left	9
14.		028_- WaveDepths_2026-07-12_full	+00:04:26	2343.8m	4.1kts	53.7°	2.5kts	left	4
15.		031_- FleetWaves2026-07-12_full	+00:04:34	2205.6m	3.8kts	48.2°	2.5kts	right	9

Performance metrics (SOG, VMG, TWA) use straight-line segments only — excluding maneuvers (±10s) and the first/last 5s of each leg.

RACE 4 — LEG 4 (DOWNWIND)





LEG RANK		BOAT	TIME	DISTANCE	SOG	AVG TWA	MARK VMG	SIDE	MAN.
1.		020_- CrewMarina_2026-07-12_full	00:11:51	1926.2m	5.3kts	143.0°	4.2kts	left	2
2.		016_- PortBeacon_2026-07-12_full	+00:00:02	2475.3m	6.8kts	134.1°	4.2kts	left	3
3.		015_- PortFathom_2026-07-12_full	+00:00:09	1920.5m	5.2kts	142.0°	4.1kts	left	6
4.		014_- FogBulwark_2026-07-12_full	+00:00:30	2058.9m	5.4kts	137.0°	4.0kts	left	1
5.		028_- WaveDepths_2026-07-12_full	+00:00:32	1948.2m	5.1kts	141.0°	4.0kts	left	2
6.		022_- HarborReef_2026-07-12_full	+00:00:33	2494.8m	6.2kts	140.8°	3.7kts	left	7
7.		002_- AftSkipper_2026-07-12_full	+00:00:37	2288.9m	7.1kts	142.4°	3.9kts	left	5
8.		031_- FleetWaves2026-07-12_full	+00:00:41	1877.0m	4.9kts	145.3°	4.0kts	left	2
9.		008_- WavePaddle_2026-07-12_full	+00:01:03	2486.0m	6.3kts	134.5°	3.9kts	left	4
10.		027_- BowSkipper_2026-07-12_full	+00:01:16	2225.9m	6.0kts	138.2°	4.1kts	left	6
11.		005_- BayBreaker_2026-07-12_full	+00:01:21	2161.8m	5.4kts	135.2°	3.8kts	left	2
12.		023_- ReefAnchor_2026-07-12_full	+00:01:42	2136.0m	5.1kts	135.9°	3.7kts	left	4
13.		011_- StarHammer_2026-07-12_full	+00:01:54	2427.3m	6.2kts	131.8°	4.0kts	left	2
14.		009_- HullDrogue_2026-07-12_full	+00:01:56	2208.7m	4.8kts	138.3°	4.0kts	left	8
15.		007_- SeaMariner_2026-07-12_full	+00:02:00	2498.0m	5.5kts	136.0°	3.6kts	left	10

Performance metrics (SOG, VMG, TWA) use straight-line segments only – excluding maneuvers (±10s) and the first/last 5s of each leg.