

RACE ANALYSIS REPORT

2026 Newport Regatta - Melges24 Day 3

CLASS	DATE	RACES
Melges 24	7/12/2026	1

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SCAN FOR RACE REPLAY AND AI FEEDBACK



Start Line Bias: The race winner (USA 871) nailed the start near the pin with about 11 m bias and only 11 s late, giving them clear pressure on the left for the first beat.

Upwind VMG Strategy: Top boats scored their best mark VMG on the left side of leg 1. Switching to the middle on the second beat (USA 871) paid off more than swinging right (USA 868).

Leg One Advantage: The boat that led after the first upwind leg (USA 871) held onto the lead through to the finish, underlining how critical the opening beat is.

Heel and VMG Link: Boats keeping a steady heel around 7–8° achieved stronger VMG; those with more under-heel events had lower mark VMG on upwind legs.

BOAT	STRENGTH	WEAKNESS
USA 868	Strong first-beat VMG on the left set a fast pace.	Dropped time on the right-side second beat, losing mark VMG.
USA 871	Most consistent upwind mark VMG and smart shift to middle paid off.	Slightly lower short-burst top speed compared to USA 868.
USA 798	Excellent peak speeds on the final downwind leg.	First upwind leg VMG was among the slowest, hurting overall time.
USA 865	Smooth handling with fewer maneuvers kept speed steady.	Right-side upwind leg yielded lower mark VMG than leaders.
USA 155	Strong mid-beat VMG on the second upwind leg.	Very slow first beat left the boat with too much ground to make up.
USA 570	Top downwind entry speed on the first run.	Lacked early upwind pace, impacting both beats.
USA 747	High downwind VMG on the last leg boosted finish speed.	Heel control issues on upwind legs led to lower VMG.
USA 838	Balanced heel and consistent VMG across all beats.	Lower short-term SOG peaks limited top-end speed.
USA 513	Strong burst speeds downwind showed good acceleration.	Struggled upwind with low mark VMG, especially on beat one.
USA 811	Solid middle-line upwind tactics produced steady VMG.	Inconsistent boat speed pay-off and slower downwind gains.

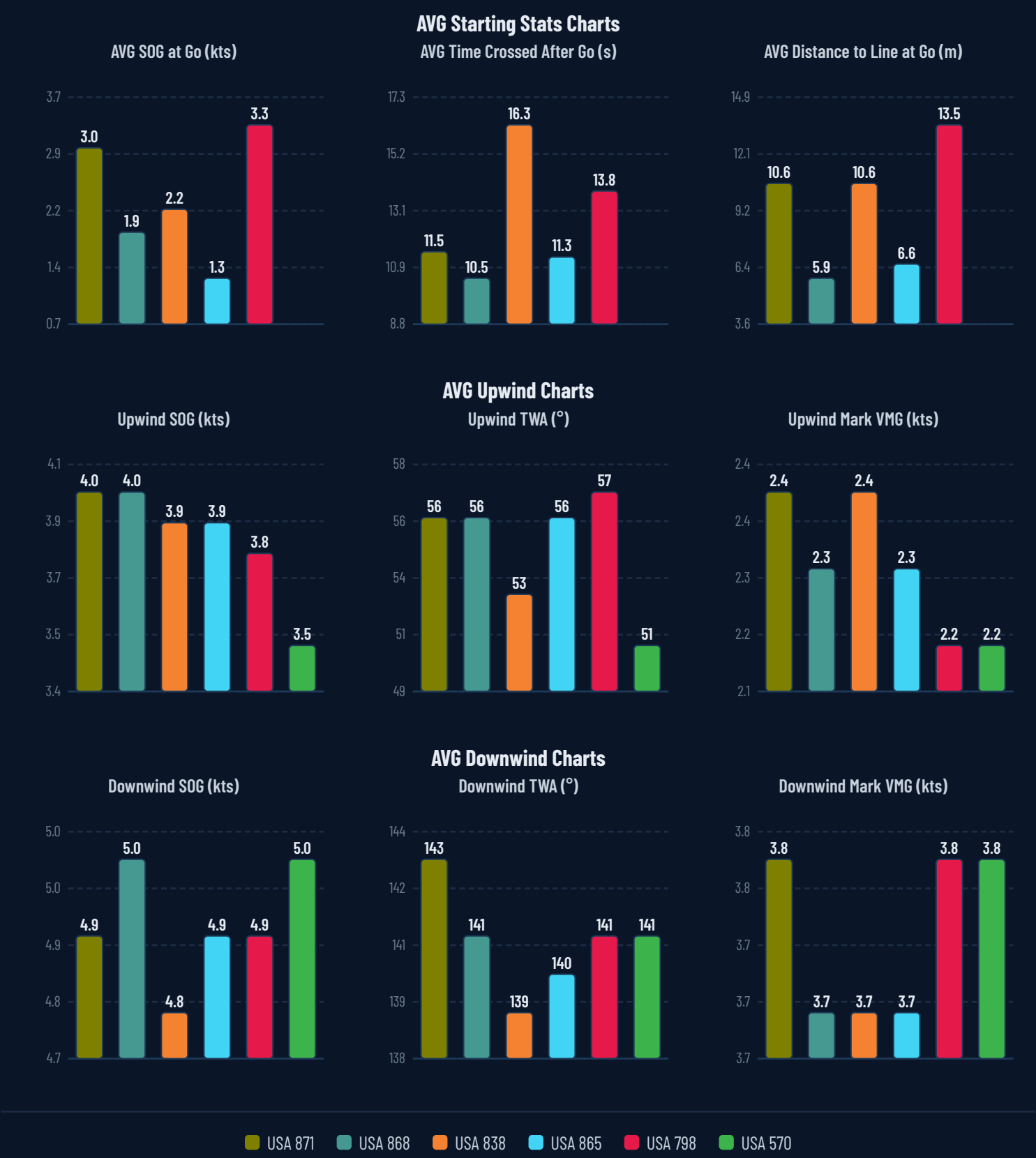
RESULTS

#	BOAT	R1	TOTAL
1	 USA 871	1	1
2	 USA 868	2	2
3	 USA 838	3	3
4	 USA 865	4	4
5	 USA 798	5	5
6	 USA 570	6	6
7	 USA 811	7	7
8	 USA 747	8	8

9		USA 155	9	9
10		USA 513	10	10



OVERALL PERFORMANCE CHARTS



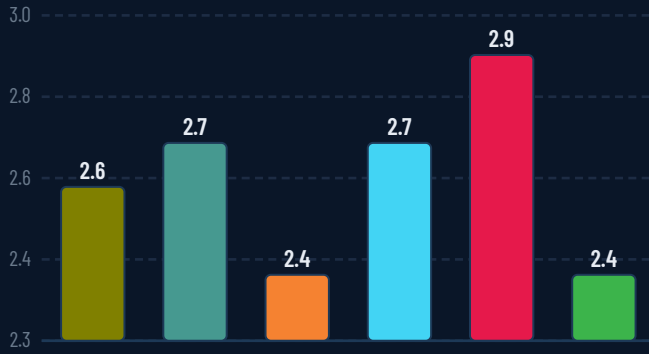


Performance metrics (SOG, VMG, TWA) use straight-line segments only – excluding maneuvers (± 10 s) and the first/last 5s of each leg.

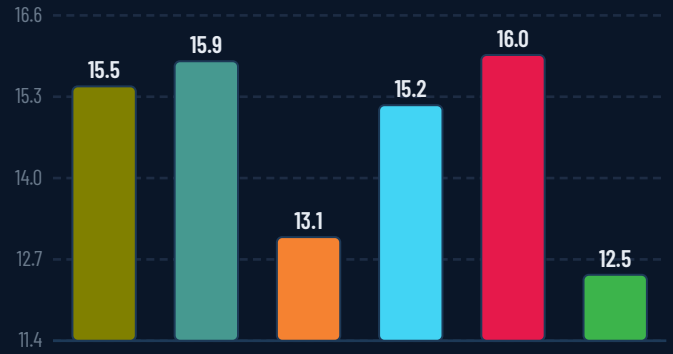
UPWIND MANEUVER ANALYSIS

Upwind Maneuver Charts

AVG VMG ± 5 s (kts)



AVG VMG Loss (m)

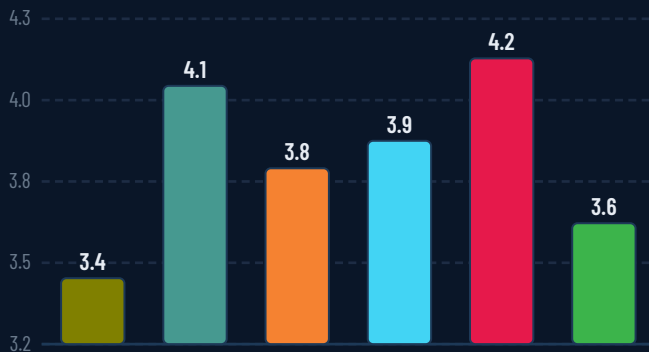


USA 871 USA 868 USA 838 USA 865 USA 798 USA 570

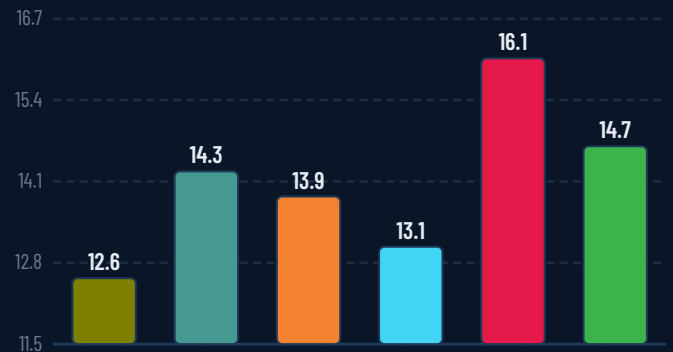
DOWNWIND MANEUVER ANALYSIS

Downwind Maneuver Charts

AVG VMG ± 5 s (kts)



AVG VMG Loss (m)



USA 871 USA 868 USA 838 USA 865 USA 798 USA 570



01 RACE ONE

• START 08:32:01

FLO'S RACE INSIGHTS

Pin-End Start Secured Lead: USA 871 nailed a start near the pin with a healthy bias, grabbed clear left-hand wind and led the first upwind by boat length.

Left-Then-Middle Course Choice: They stayed left on the opening beat and run, then smartly shifted to the middle on the second upwind and downwind—this matched their best VMG and left boats that swung right playing catch-up.

Steady Heel, Strong VMG: By holding heel in the mid-6° range on the beats, they unlocked top mark VMG; boats with more under-heel or over-heel slips showed weaker VMG.

Early Cushion Held Finish: The fast first leg created enough cushion that, even without the quickest second leg, no one closed the gap before the finish.

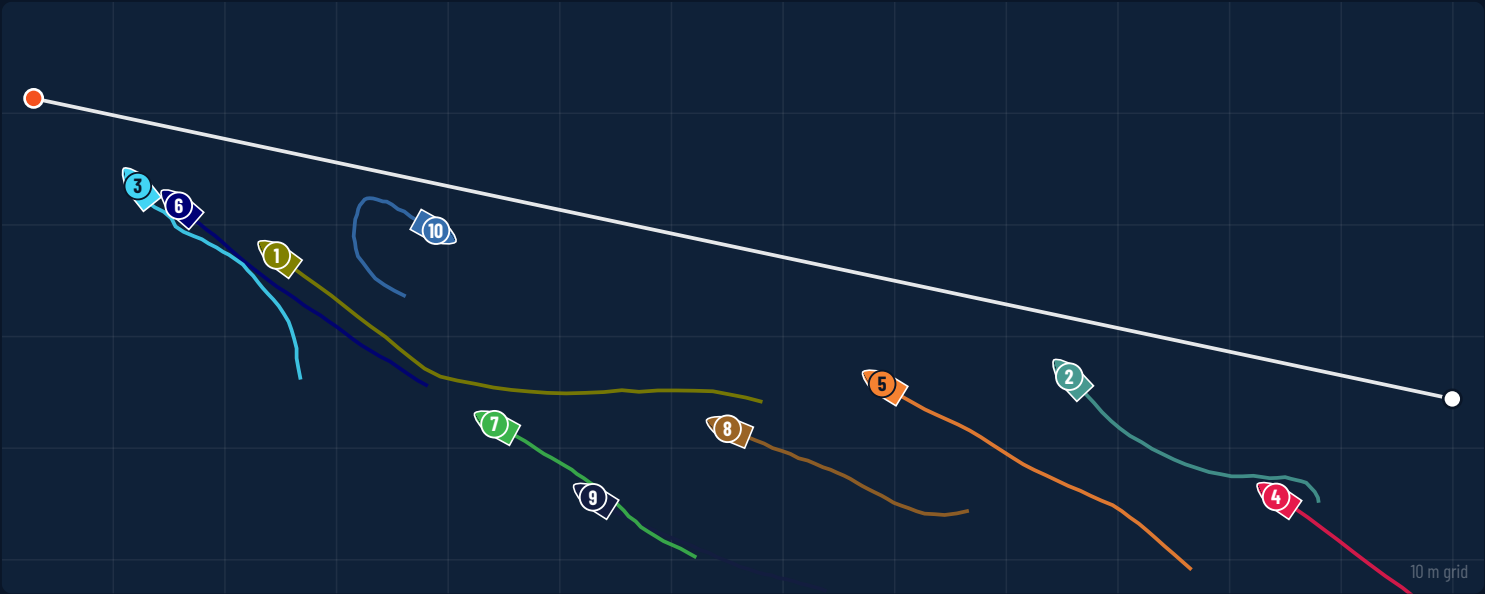
RACE 1 — FULL RACE SUMMARY

RANK	BOAT	DISTANCE	TIME	UPWIND SOG	UPWIND VMG	DOWNWIND SOG	DOWNWIND VMG	MAN.
1.	 USA 871	6452.8m	00:49:00	4.0kts	2.4kts	4.9kts	3.8kts	19
2.	 USA 868	+92.1m	+00:00:29	4.0kts	2.3kts	5.0kts	3.7kts	17
3.	 USA 838	+43.8m	+00:01:34	3.9kts	2.4kts	4.8kts	3.7kts	18
4.	 USA 865	+116.3m	+00:01:36	3.9kts	2.3kts	4.9kts	3.7kts	15
5.	 USA 798	+137.0m	+00:01:59	3.8kts	2.2kts	4.9kts	3.8kts	13
6.	 USA 570	-163.6m	+00:02:03	3.5kts	2.2kts	5.0kts	3.8kts	12
7.	 USA 811	-160.4m	+00:02:04	3.7kts	2.4kts	4.7kts	3.5kts	14
8.	 USA 747	+524.5m	+00:03:24	3.7kts	2.2kts	5.7kts	3.6kts	10
9.	 USA 155	+38.8m	+00:03:48	3.6kts	2.4kts	4.9kts	3.4kts	13
10.	 USA 513	+305.5m	+00:06:36	3.4kts	2.0kts	5.2kts	3.5kts	10

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



RACE 1 – START REPORT



10 m grid — map scale reference

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

FAVORED END
Pin (26.9m)

LINE LENGTH
129.8m

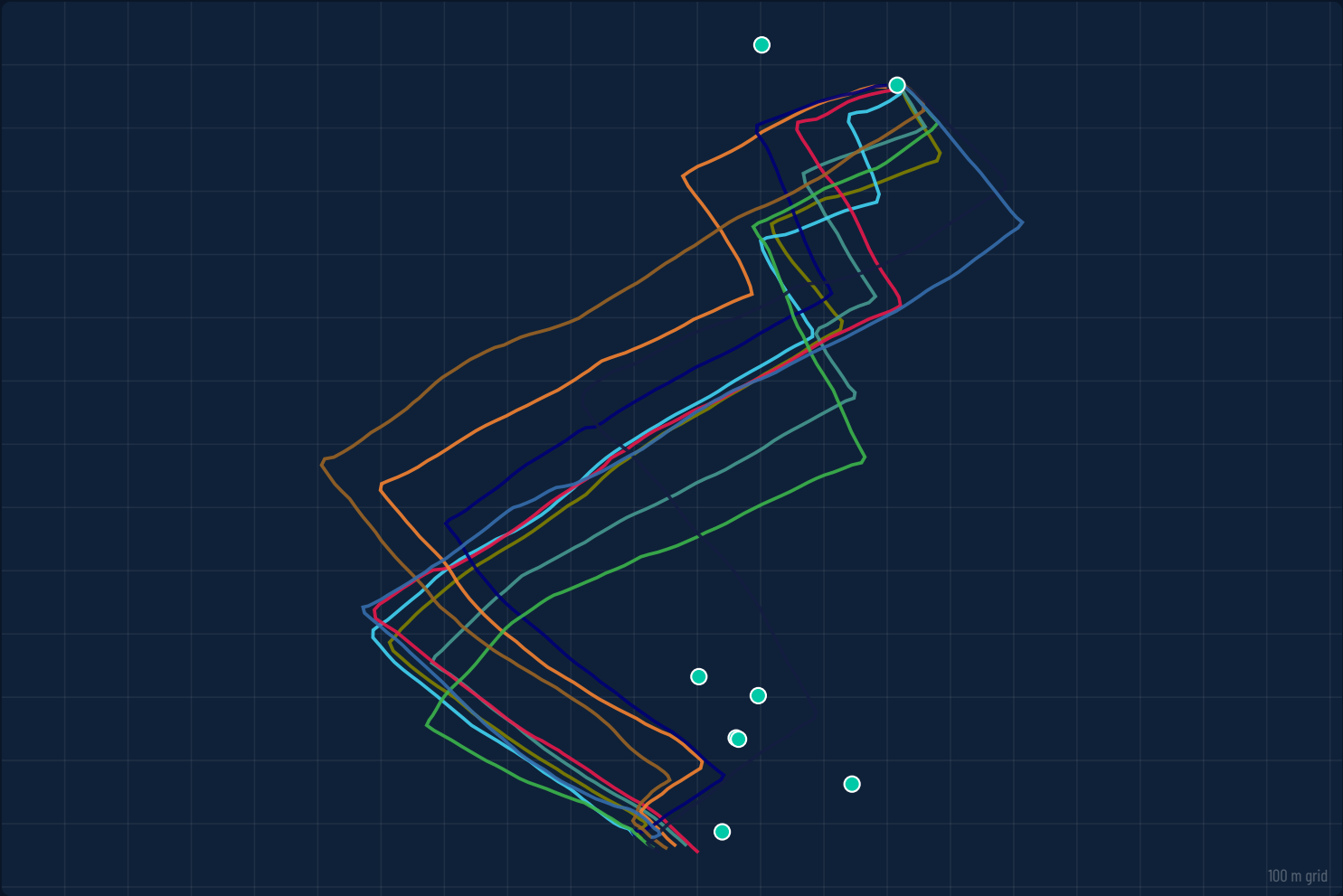
WIND
301.0°

COMM TO M1
315.0°

LEG 1 RANK	BOAT	DIST TO LINE	SOG AT GO	START DELAY	POSITION ON LINE	TACK AT GO
1.	USA 871	10.6m	3.0kts	11.5s		starboard
2.	USA 868	5.9m	1.9kts	10.5s		starboard
3.	USA 865	6.6m	1.3kts	11.3s		starboard
4.	USA 798	13.5m	3.3kts	13.8s		starboard
5.	USA 838	10.6m	2.2kts	16.3s		starboard
6.	USA 811	7.7m	1.4kts	18.5s		starboard
7.	USA 570	22.8m	1.6kts	44.0s		starboard
8.	USA 747	18.3m	1.8kts	35.0s		starboard
9.	USA 513	28.0m	1.6kts	61.0s		starboard
10.	USA 155	4.7m	1.6kts	11.0s		port



RACE 1 – LEG 1 (UPWIND)

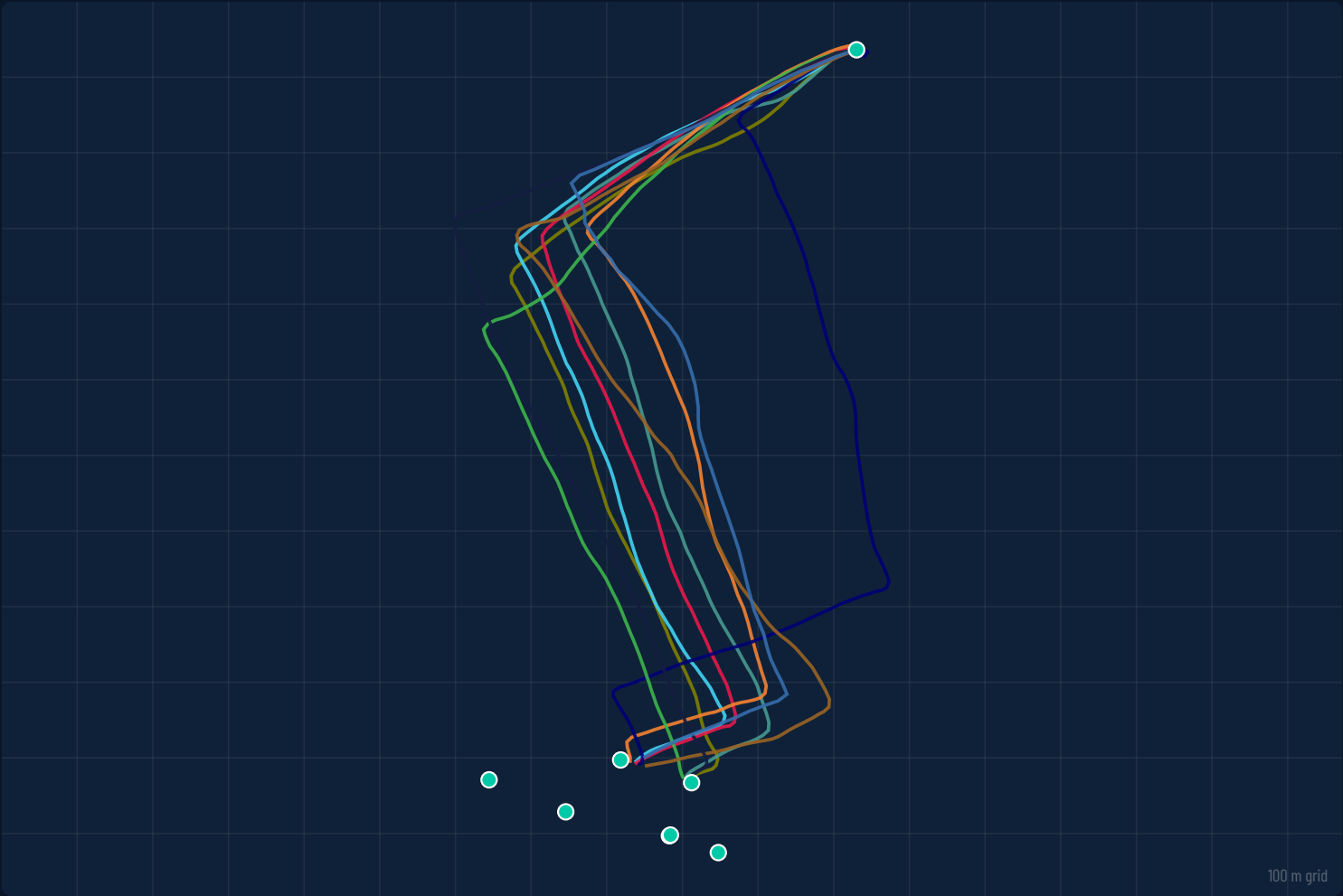


LEG RANK		BOAT	TIME	DISTANCE	SOG	AVG TWA	MARK VMG	SIDE	MAN.
1.		USA 871	00:16:53	2039.5m	4.0kts	54.8°	2.5kts	left	6
2.		USA 868	+00:00:19	2050.8m	3.9kts	54.0°	2.4kts	left	6
3.		USA 865	+00:00:26	2015.5m	3.8kts	53.9°	2.4kts	left	6
4.		USA 798	+00:01:26	2125.2m	3.8kts	55.3°	2.2kts	left	3
5.		USA 838	+00:01:46	2147.6m	3.8kts	55.1°	2.2kts	left	5
6.		USA 811	+00:02:10	2026.1m	3.5kts	53.5°	2.2kts	left	5
7.		USA 570	+00:02:18	2081.8m	3.5kts	53.2°	2.2kts	left	4
8.		USA 747	+00:02:54	2092.0m	3.5kts	53.8°	2.1kts	left	4
9.		USA 513	+00:04:13	1995.5m	3.1kts	52.2°	2.0kts	right	4
10.		USA 155	+00:04:56	2129.5m	3.2kts	56.4°	1.9kts	left	3

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



RACE 1 – LEG 2 (DOWNWIND)

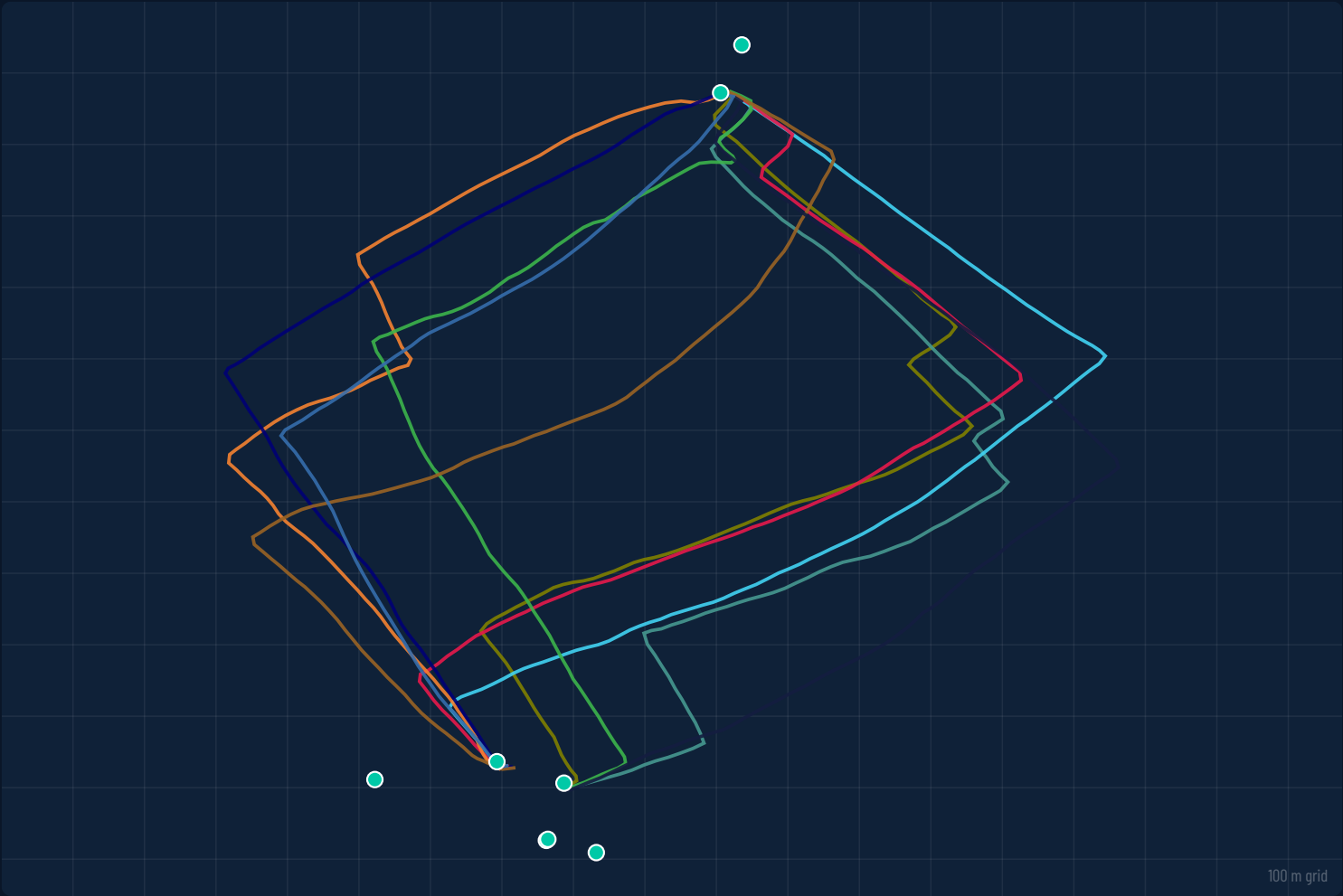


LEG RANK		BOAT	TIME	DISTANCE	SOG	AVG TWA	MARK VMG	SIDE	MAN.
1.		USA 570	00:08:30	1285.8m	5.0kts	142.0°	3.8kts	left	1
2.		USA 798	+00:00:27	1339.9m	4.9kts	138.8°	3.5kts	left	2
3.		USA 871	+00:00:32	1307.7m	4.7kts	142.2°	3.6kts	left	2
4.		USA 838	+00:00:42	1351.3m	4.8kts	138.1°	3.5kts	left	5
5.		USA 747	+00:00:44	1536.1m	5.4kts	129.8°	3.4kts	left	2
6.		USA 868	+00:00:46	1318.3m	4.6kts	141.8°	3.5kts	left	2
7.		USA 865	+00:00:52	1350.5m	4.7kts	138.3°	3.4kts	left	2
8.		USA 513	+00:01:04	1410.2m	4.8kts	138.8°	3.4kts	left	2
9.		USA 811	+00:01:19	1371.0m	4.6kts	139.1°	3.3kts	right	5
10.		USA 155	+00:02:25	1394.3m	4.2kts	140.0°	2.9kts	left	6

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



RACE 1 – LEG 3 (UPWIND)

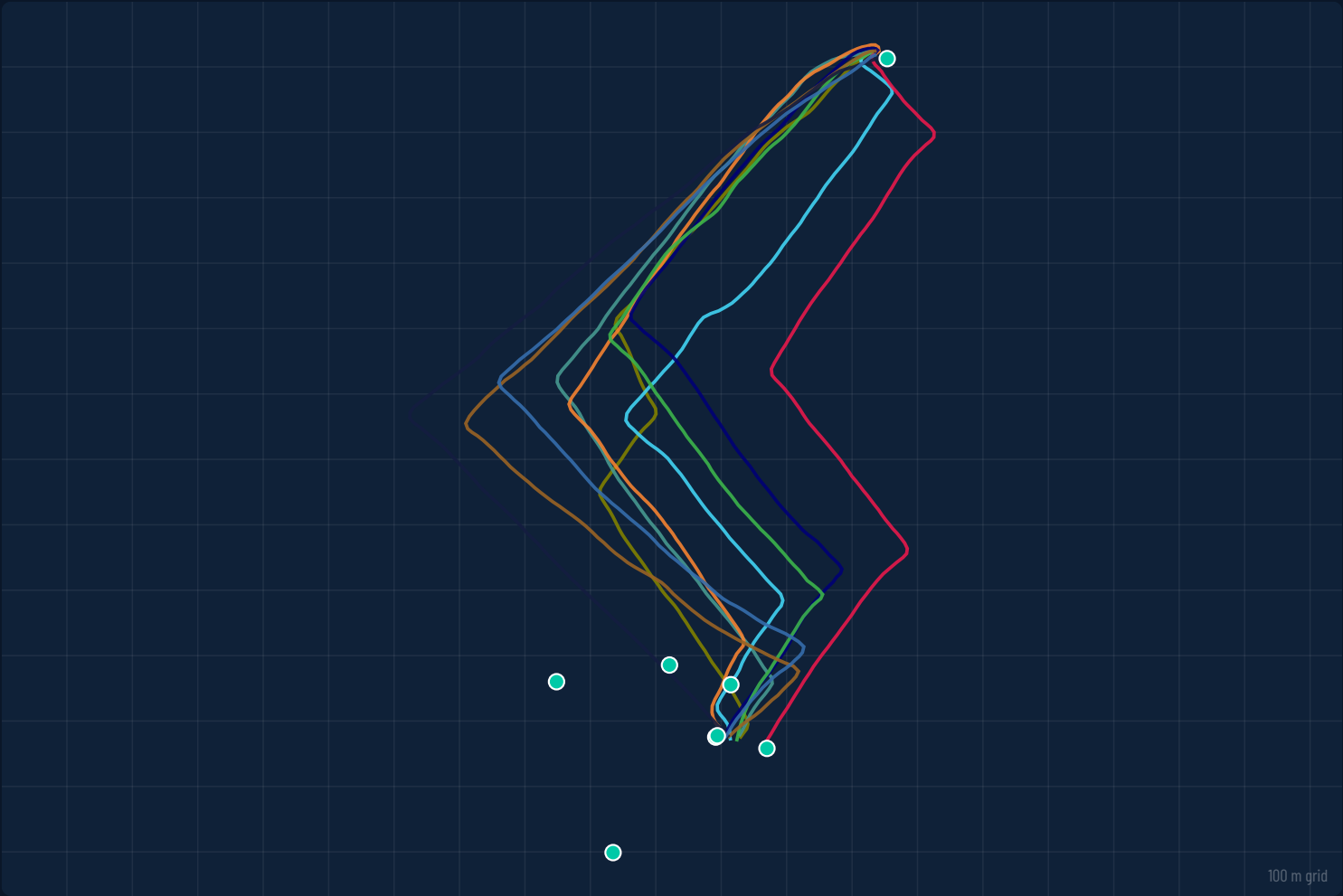


LEG RANK		BOAT	TIME	DISTANCE	SOG	AVG TWA	MARK VMG	SIDE	MAN.
1.		USA 155	00:11:04	1386.1m	4.1kts	46.1°	3.0kts	left	2
2.		USA 811	+00:01:41	1490.5m	3.8kts	48.0°	2.6kts	left	1
3.		USA 838	+00:02:25	1618.5m	4.0kts	51.3°	2.5kts	left	3
4.		USA 747	+00:03:14	1698.0m	3.9kts	55.0°	2.3kts	left	2
5.		USA 570	+00:03:18	1539.5m	3.5kts	48.8°	2.3kts	left	5
6.		USA 871	+00:03:27	1769.5m	4.1kts	56.8°	2.3kts	middle	7
7.		USA 868	+00:03:30	1781.8m	4.0kts	58.1°	2.2kts	right	7
8.		USA 798	+00:04:03	1796.0m	3.9kts	58.8°	2.1kts	right	4
9.		USA 865	+00:04:07	1831.6m	3.9kts	58.7°	2.1kts	right	2
10.		USA 513	+00:04:31	1743.4m	3.6kts	55.8°	2.1kts	right	3

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



RACE 1 – LEG 4 (DOWNWIND)



LEG RANK		BOAT	TIME	DISTANCE	SOG	AVG TWA	MARK VMG	SIDE	MAN.
1.		USA 868	00:08:27	1388.8m	5.3kts	140.9°	4.0kts	middle	2
2.		USA 871	+00:00:07	1330.1m	5.1kts	143.8°	4.0kts	middle	4
3.		USA 798	+00:00:09	1322.3m	5.0kts	143.7°	4.0kts	middle	4
4.		USA 865	+00:00:17	1365.1m	5.1kts	141.4°	4.0kts	middle	5
5.		USA 570	+00:00:33	1376.3m	5.0kts	140.4°	3.8kts	middle	2
6.		USA 155	+00:00:33	1575.1m	5.7kts	131.9°	3.8kts	middle	2
7.		USA 747	+00:00:38	1643.2m	5.9kts	130.4°	3.8kts	middle	2
8.		USA 838	+00:00:47	1372.9m	4.8kts	140.6°	3.8kts	left	5
9.		USA 513	+00:00:54	1603.0m	5.6kts	130.9°	3.7kts	middle	1
10.		USA 811	+00:01:00	1399.0m	4.9kts	140.0°	3.8kts	middle	3

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