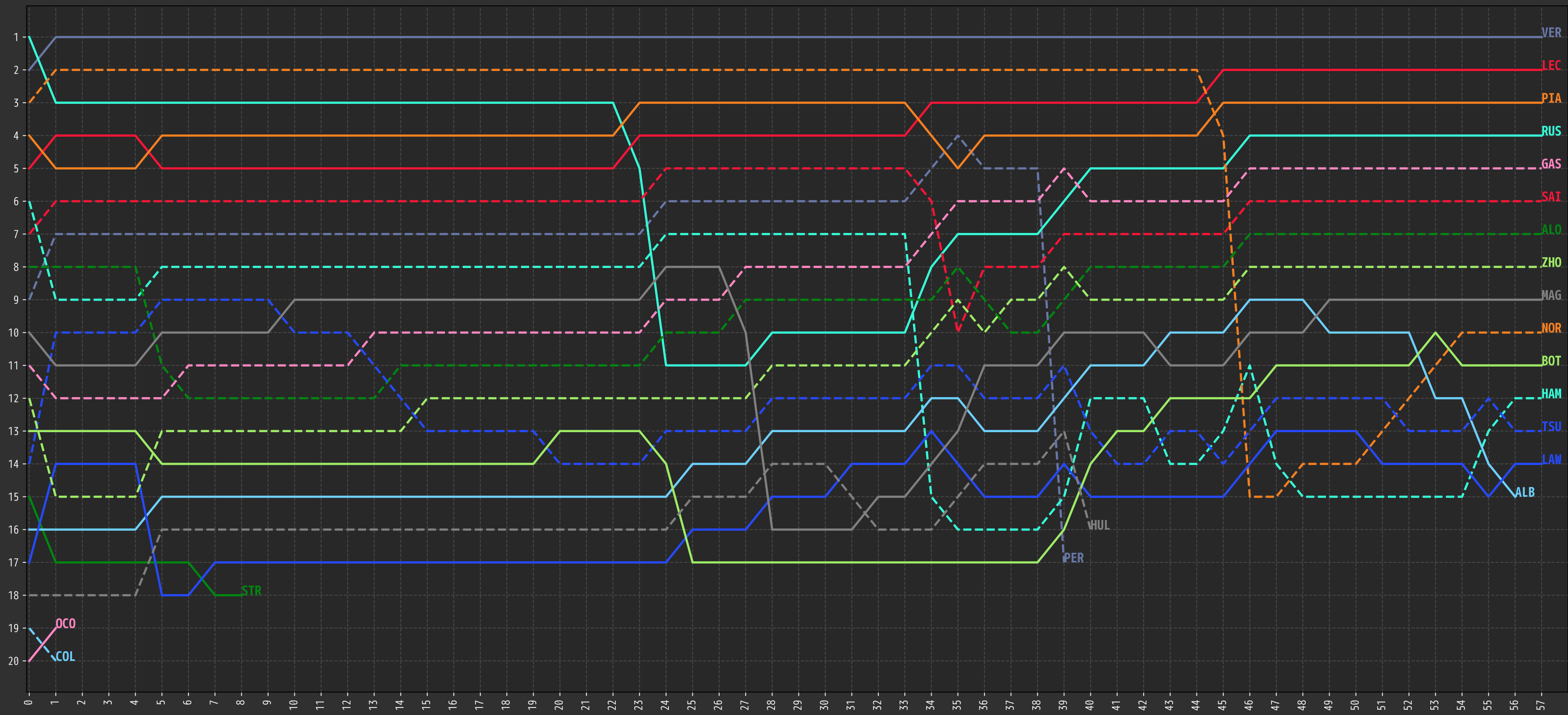
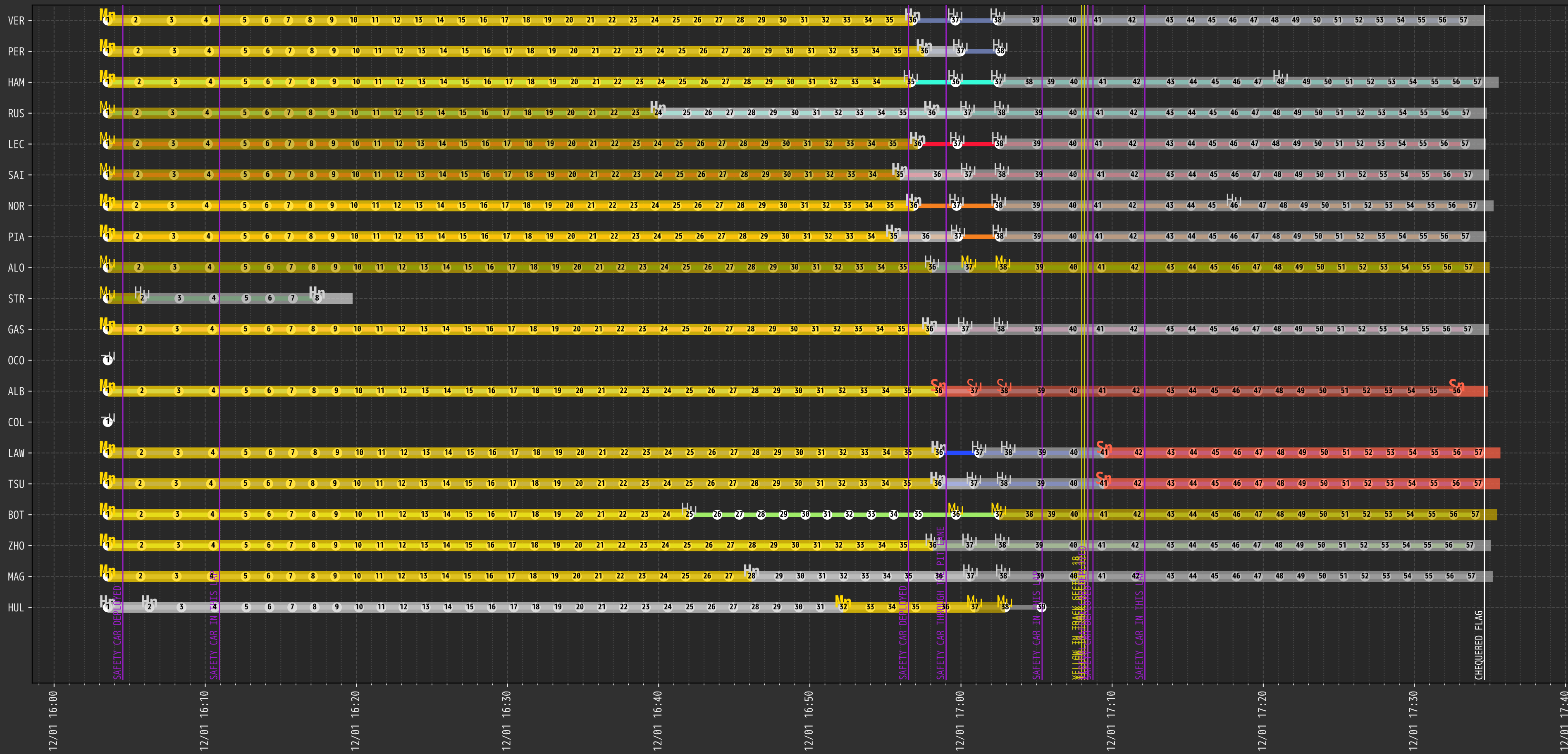


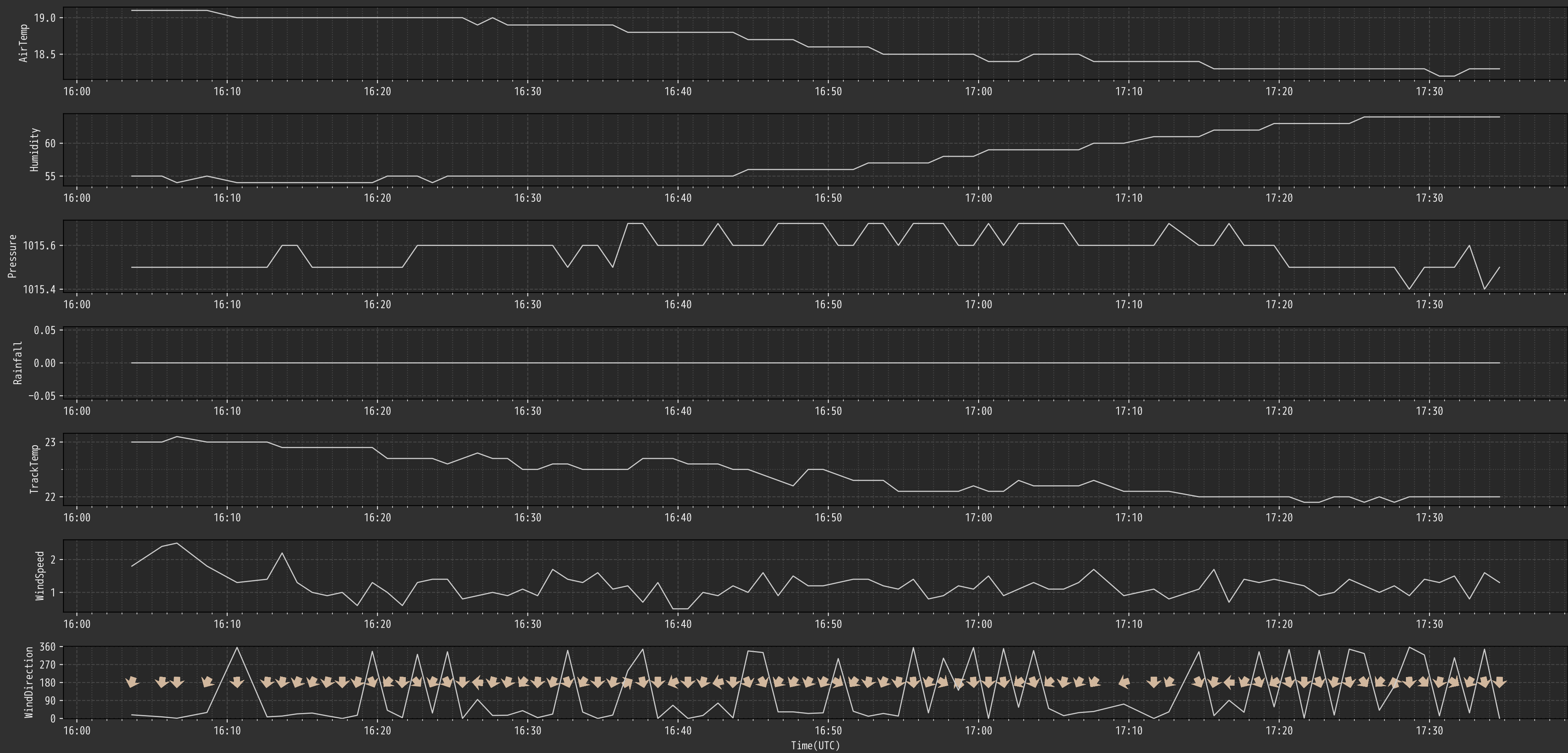
2024 Rd23 Qatar Grand Prix RaceLapchart



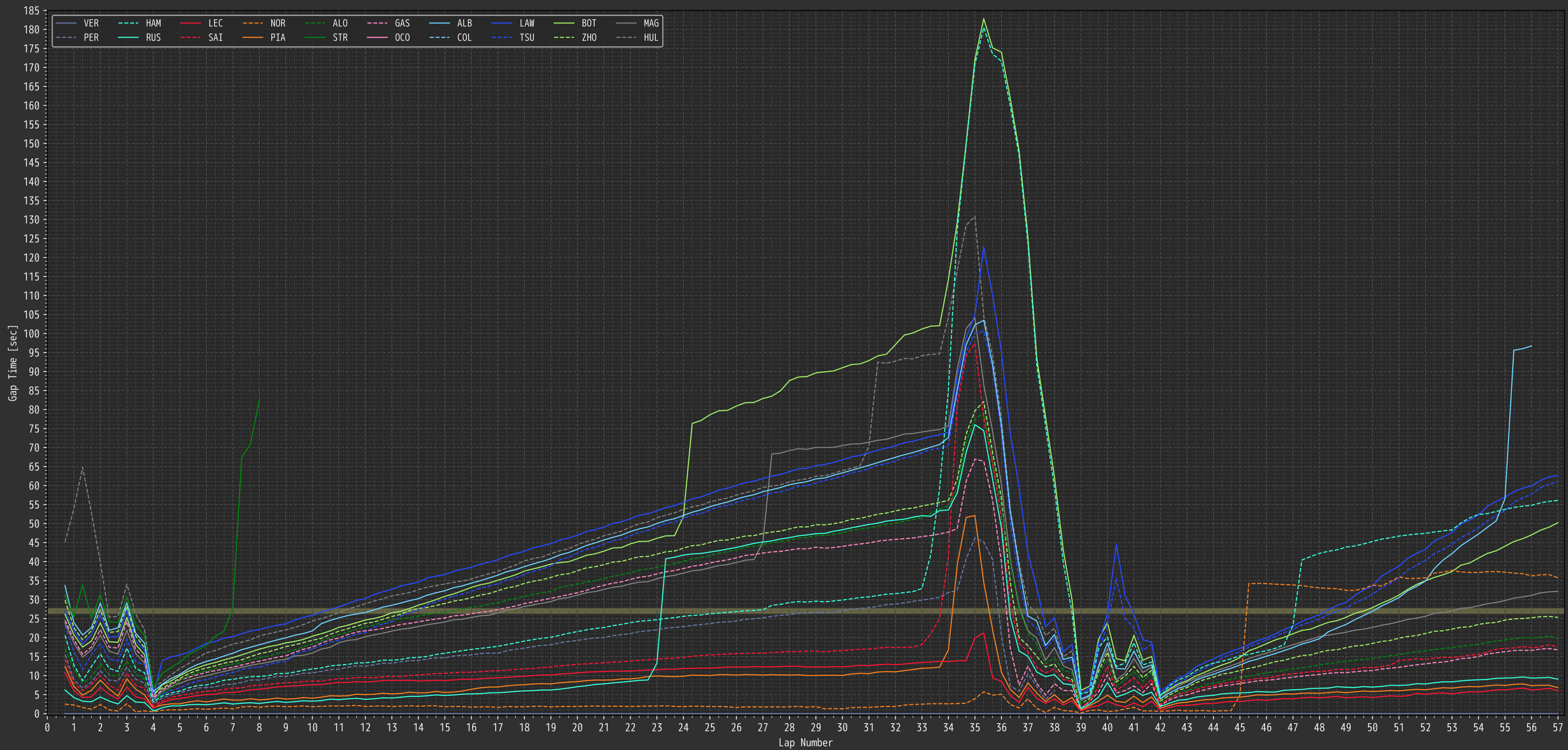
2024 Rd23 Qatar Grand Prix R Tyre Chart



2024 Rd23 Qatar Grand Prix Race Weather Data



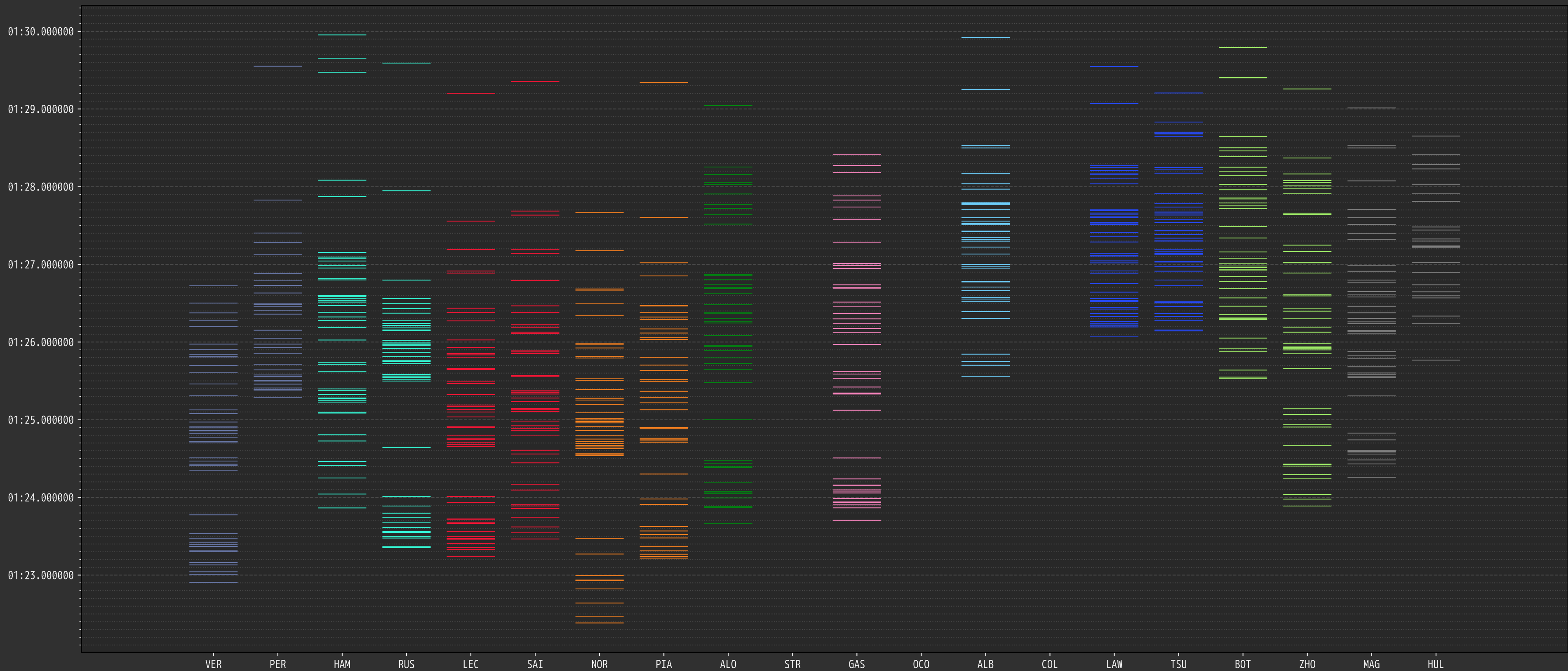
2024 Rd23 Qatar Grand Prix Race Gap Time



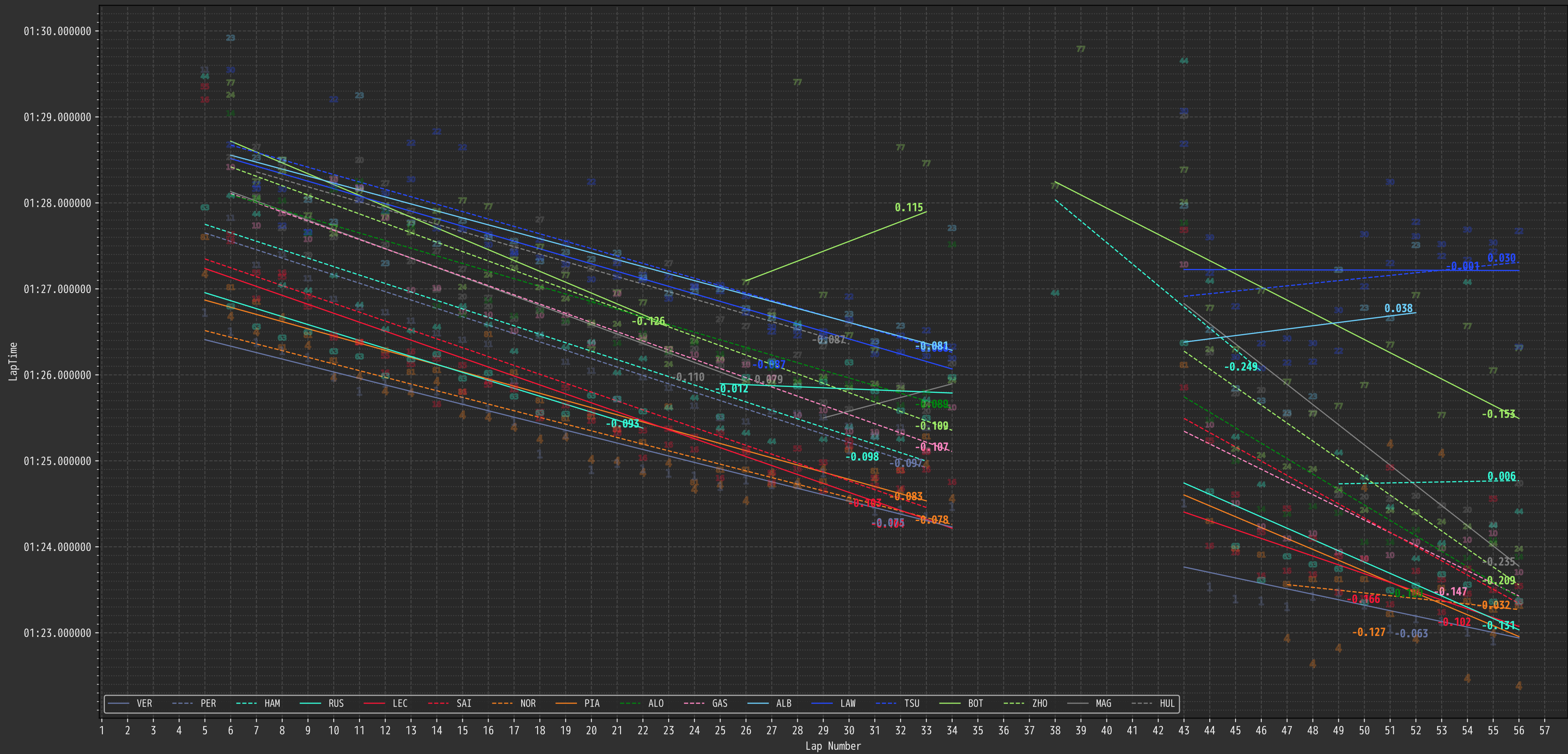
2024 Rd23 Qatar Grand Prix Race Gap Time(Ref=TSU)



2024 Rd23 Qatar Grand Prix Race Laptime Raster Plot
(1:30.000までのタイムを抽出)



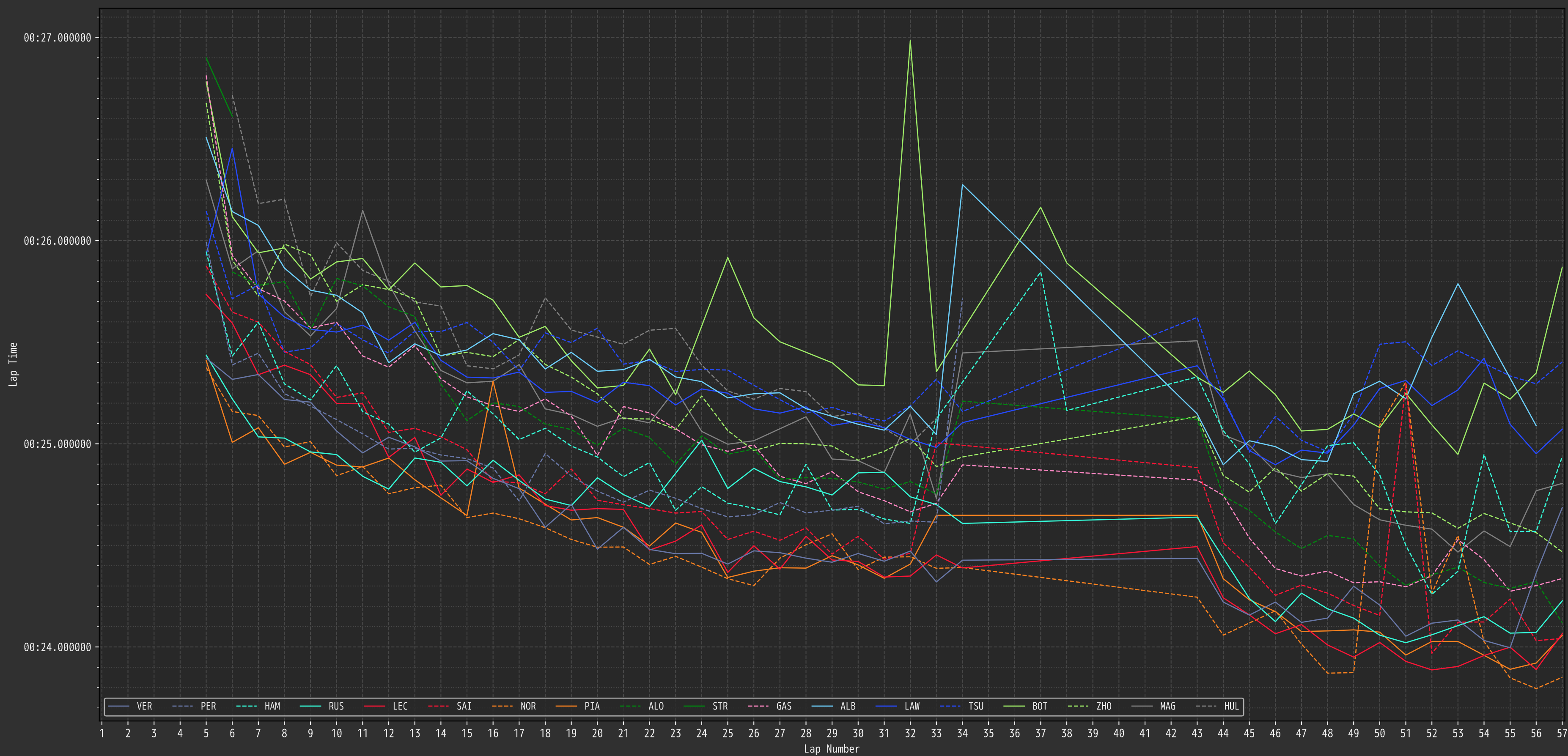
2024 Rd23 Qatar Grand Prix Race 直線近似
各ステントで1:22.000以上1:30.000以下の周回が3周以上の場合に算出



2024 Rd23 Qatar Grand Prix Race Sector1Time
(0:35.000までのタイムを抽出)

2024 Rd23 Qatar Grand Prix Race Sector2Time
(0:31.000までのタイムを抽出)

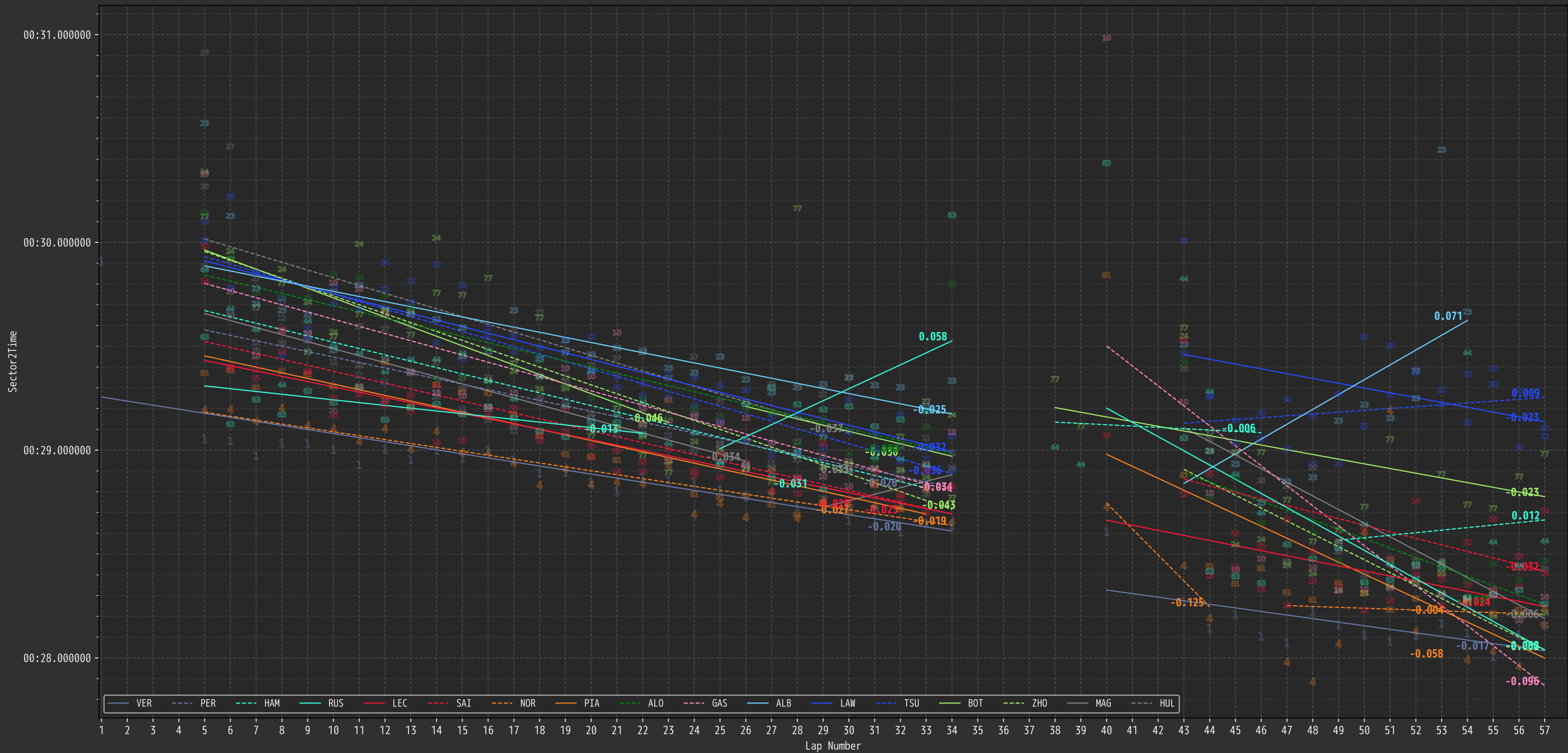
2024 Rd23 Qatar Grand Prix Race Sector3Time
(0:27.000までのタイムを抽出)



2024 Rd23 Qatar Grand Prix Race Sector1Timeの直線近似 直線近似
各ステントで0:30.000以上0:35.000以下の周回が3周以上の場合に算出



2024 Rd23 Qatar Grand Prix Race Sector2Timeの直線近似 直線近似
各ステントで0:27.000以上0:31.000以下の周回が3周以上の場合に算出



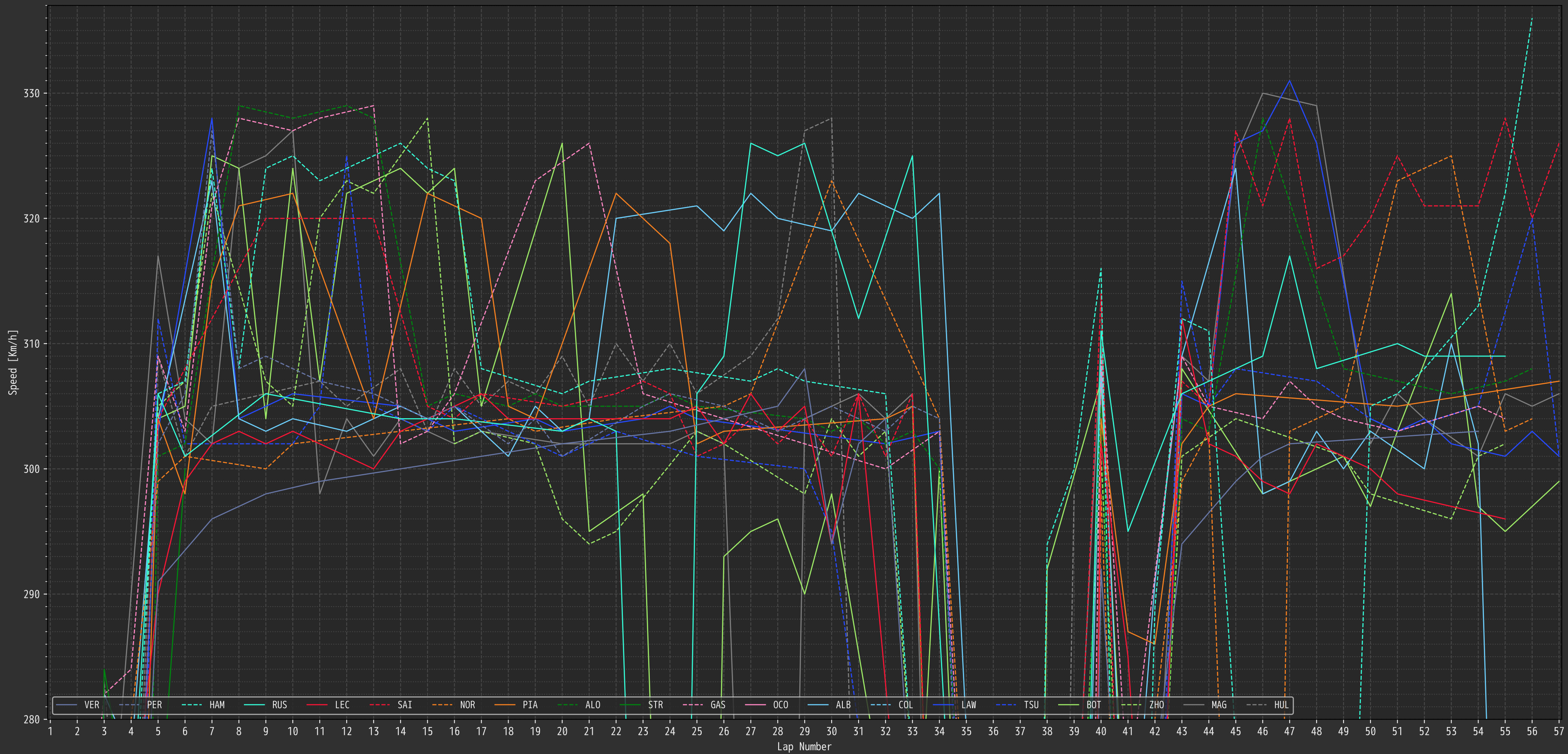
2024 Rd23 Qatar Grand Prix Race Sector3Timeの直線近似 直線近似
各ステントで0:23.000以上0:27.000以下の周回が3周以上の場合に算出

2024 Rd23 Qatar Grand Prix Race:Sector1 speed(Km/h)

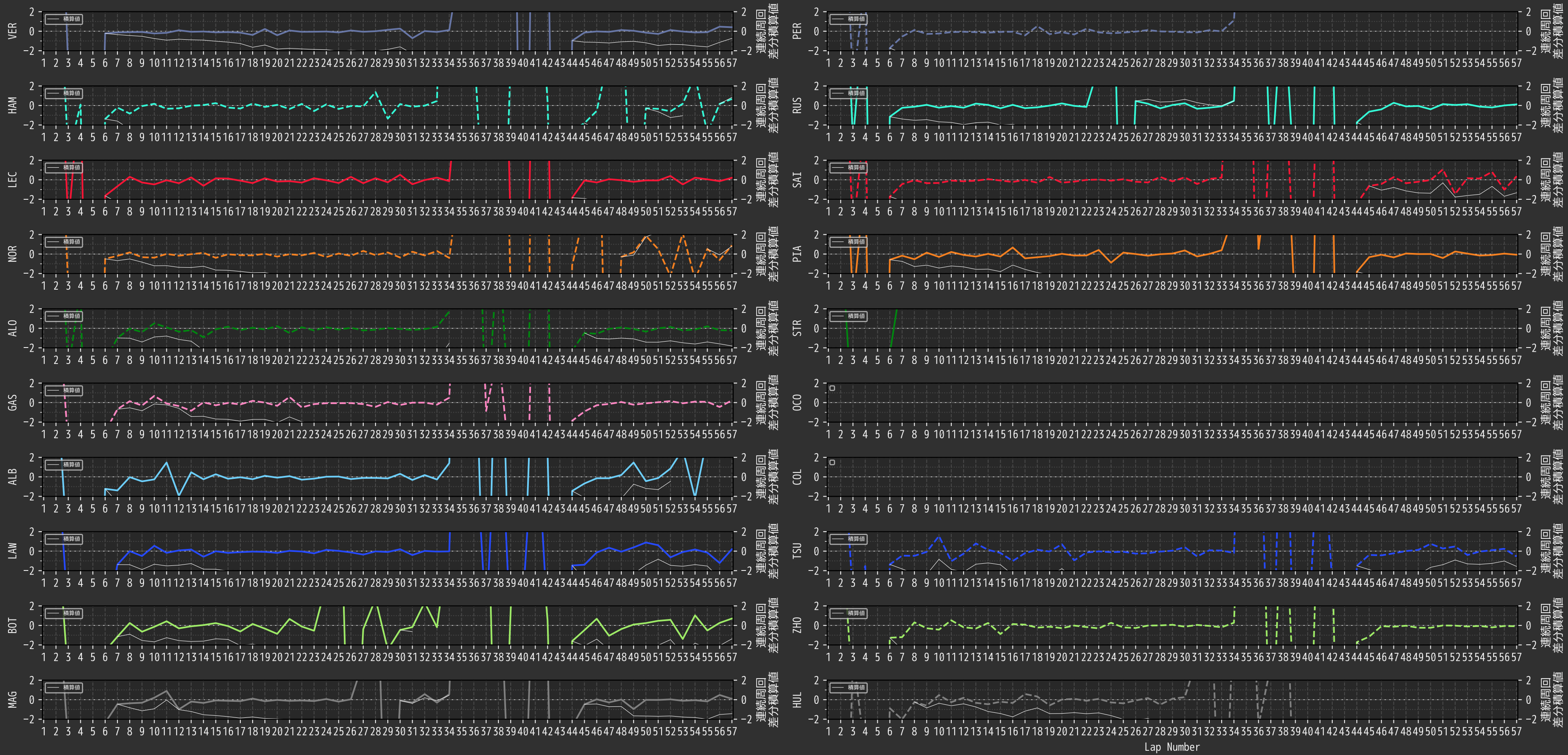
2024 Rd23 Qatar Grand Prix Race:Sector2 speed(Km/h)

2024 Rd23 Qatar Grand Prix Race:Finish Line speed(Km/h)

2024 Rd23 Qatar Grand Prix Race:Speed Trap speed(Km/h)



2024 Rd23 Qatar Grand Prix Race 前ラップとの差分



	Time	Category	Message	Status	Flag	Scope	Sector	RacingNumber	Lap
0	2024-12-01 15:08:59	Other	PINK HEAD PADDING MATERIAL MUST BE USED				nan		1
1	2024-12-01 15:20:01	Flag	GREEN LIGHT - PIT EXIT OPEN		GREEN	Track	nan		1
2	2024-12-01 15:25:34	Other	PIT ENTRY INCIDENT INVOLVING CAR 11 (PER) NOTED - DRIVING ERRATICALLY				nan		1
3	2024-12-01 15:26:25	Other	UPDATE: PIT ENTRY INCIDENT INVOLVING CAR 81 (PIA) NOTED - DRIVING ERRATICALLY				nan		1
4	2024-12-01 15:30:01	Other	PIT EXIT CLOSED				nan		1
5	2024-12-01 15:33:06	Other	FIA STEWARDS: PIT ENTRY INCIDENT INVOLVING CAR 81 (PIA) WILL BE INVESTIGATED AFTER THE RACE				nan		1
6	2024-12-01 15:45:03	Other	RISK OF RAIN FOR F1 RACE IS 0%				nan		1
7	2024-12-01 15:57:03	Drs	DRS DISABLED	DISABLED			nan		1
8	2024-12-01 16:03:33	Flag	GREEN LIGHT - PIT EXIT OPEN		GREEN	Track	nan		1
9	2024-12-01 16:03:50	Flag	DOUBLE YELLOW IN TRACK SECTOR 3		DOUBLE YELLOW	Sector	3.0		1
10	2024-12-01 16:04:33	SafetyCar	SAFETY CAR DEPLOYED	DEPLOYED			nan		1
11	2024-12-01 16:08:58	Flag	CLEAR IN TRACK SECTOR 3		CLEAR	Sector	3.0		3
12	2024-12-01 16:09:46	Other	TURN 1 INCIDENT INVOLVING CARS 31 (OCO), 27 (HUL) AND 43 (COL) NOTED - CAUSING A COLLISION				nan		3
13	2024-12-01 16:10:56	SafetyCar	SAFETY CAR IN THIS LAP	IN THIS LAP			nan		4
14	2024-12-01 16:11:34	Other	TURN 4 INCIDENT INVOLVING CARS 18 (STR) AND 23 (ALB) NOTED - CAUSING A COLLISION				nan		4
15	2024-12-01 16:12:10	Flag	TRACK CLEAR		CLEAR	Track	nan		4
16	2024-12-01 16:12:56	Flag	DOUBLE YELLOW IN TRACK SECTOR 3		DOUBLE YELLOW	Sector	3.0		5
17	2024-12-01 16:13:03	Flag	CLEAR IN TRACK SECTOR 3		CLEAR	Sector	3.0		5
18	2024-12-01 16:13:32	Other	FIA STEWARDS: TURN 1 INCIDENT INVOLVING CARS 31 (OCO), 27 (HUL) AND 43 (COL) REVIEWED NO FURTHER INVESTIGATION - CAUSING A COLLISION				nan		5
19	2024-12-01 16:14:14	Drs	DRS ENABLED	ENABLED			nan		6
20	2024-12-01 16:14:20	Other	FIA STEWARDS: TURN 4 INCIDENT INVOLVING CARS 18 (STR) AND 23 (ALB) UNDER INVESTIGATION - CAUSING A COLLISION				nan		6
21	2024-12-01 16:15:08	Other	TURN 1 INCIDENT INVOLVING CARS 77 (BOT) AND 30 (LAW) NOTED - CAUSING A COLLISION				nan		6
22	2024-12-01 16:17:06	Other	FIA STEWARDS: 10 SECOND TIME PENALTY FOR CAR 18 (STR) - CAUSING A COLLISION				nan		8
23	2024-12-01 16:17:19	Other	CAR 14 (ALO) TIME 1:32.386 DELETED - TRACK LIMITS AT TURN 13 LAP 5 19:13:48				nan		8
24	2024-12-01 16:18:30	Other	TURN 14 INCIDENT INVOLVING CAR 14 (ALO) NOTED - REJOINING UNSAFELY				nan		9
25	2024-12-01 16:19:10	Other	INCIDENT INVOLVING CAR 44 (HAM) NOTED - FALSE START				nan		9
26	2024-12-01 16:20:41	Other	FIA STEWARDS: TURN 1 INCIDENT INVOLVING CARS 77 (BOT) AND 30 (LAW) UNDER INVESTIGATION - CAUSING A COLLISION				nan		10
27	2024-12-01 16:22:01	Other	FIA STEWARDS: 10 SECOND TIME PENALTY FOR CAR 30 (LAW) - CAUSING A COLLISION				nan		11
28	2024-12-01 16:24:09	Other	TURN 1 INCIDENT INVOLVING CARS 22 (TSU) AND 20 (MAG) NOTED				nan		13
29	2024-12-01 16:24:44	Other	CAR 10 (GAS) TIME 1:28.181 DELETED - TRACK LIMITS AT TURN 7 LAP 11 19:22:19				nan		13
30	2024-12-01 16:24:45	Other	CAR 20 (MAG) TIME 1:27.601 DELETED - TRACK LIMITS AT TURN 1 LAP 10 19:20:16				nan		13
31	2024-12-01 16:24:56	Other	FIA STEWARDS: INCIDENT INVOLVING CAR 44 (HAM) UNDER INVESTIGATION - FALSE START				nan		13
32	2024-12-01 16:26:12	Other	FIA STEWARDS: 5 SECOND TIME PENALTY FOR CAR 44 (HAM) - FALSE START				nan		14
33	2024-12-01 16:26:44	Other	FIA STEWARDS: TURN 14 INCIDENT INVOLVING CAR 14 (ALO) REVIEWED NO FURTHER INVESTIGATION - REJOINING UNSAFELY				nan		14
34	2024-12-01 16:30:34	Other	CAR 81 (PIA) TIME 1:26.474 DELETED - TRACK LIMITS AT TURN 16 LAP 16 19:29:51				nan		17
35	2024-12-01 16:31:14	Other	FIA STEWARDS: TURN 1 INCIDENT INVOLVING CARS 22 (TSU) AND 20 (MAG) REVIEWED NO FURTHER INVESTIGATION				nan		17
36	2024-12-01 16:31:33	Other	CAR 81 (PIA) TIME 1:26.031 DELETED - TRACK LIMITS AT TURN 16 (NEXT LAP)				nan		18
37	2024-12-01 16:47:19	Flag	WAVED BLUE FLAG FOR CAR 77 (BOT) TIMED AT 19:47:19		BLUE	Driver	nan	77	29
38	2024-12-01 16:47:29	Flag	WAVED BLUE FLAG FOR CAR 77 (BOT) TIMED AT 19:47:28		BLUE	Driver	nan	77	29
39	2024-12-01 16:47:57	Flag	WAVED BLUE FLAG FOR CAR 77 (BOT) TIMED AT 19:47:56		BLUE	Driver	nan	77	29
40	2024-12-01 16:48:18	Flag	DOUBLE YELLOW IN TRACK SECTOR 2		DOUBLE YELLOW	Sector	2.0		30
41	2024-12-01 16:48:19	Other	DRS DISABLED IN ZONE 1				nan		30
42	2024-12-01 16:48:24	Other	TRACK SURFACE SLIPPERY IN TRACK SECTOR 2				nan		30
43	2024-12-01 16:48:25	Other	DRS ENABLED IN ZONE 1				nan		30
44	2024-12-01 16:48:26	Flag	DOUBLE YELLOW IN TRACK SECTOR 2		DOUBLE YELLOW	Sector	2.0		30
45	2024-12-01 16:48:27	Other	DRS DISABLED IN ZONE 1				nan		30
46	2024-12-01 16:48:28	Other	TRACK SURFACE SLIPPERY IN TRACK SECTOR 2				nan		30
47	2024-12-01 16:48:28	Other	DRS ENABLED IN ZONE 1				nan		30
48	2024-12-01 16:48:30	Flag	DOUBLE YELLOW IN TRACK SECTOR 2		DOUBLE YELLOW	Sector	2.0		30
49	2024-12-01 16:48:31	Other	DRS DISABLED IN ZONE 1				nan		30
50	2024-12-01 16:48:32	Other	TRACK SURFACE SLIPPERY IN TRACK SECTOR 2				nan		30
51	2024-12-01 16:48:32	Other	DRS ENABLED IN ZONE 1				nan		30
52	2024-12-01 16:48:34	Flag	DOUBLE YELLOW IN TRACK SECTOR 2		DOUBLE YELLOW	Sector	2.0		30
53	2024-12-01 16:48:35	Other	DRS DISABLED IN ZONE 1				nan		30
54	2024-12-01 16:48:36	Other	TRACK SURFACE SLIPPERY IN TRACK SECTOR 2				nan		30
55	2024-12-01 16:48:36	Other	DRS ENABLED IN ZONE 1				nan		30
56	2024-12-01 16:48:38	Flag	DOUBLE YELLOW IN TRACK SECTOR 2		DOUBLE YELLOW	Sector	2.0		30
57	2024-12-01 16:49:42	Other	TRACK SURFACE SLIPPERY IN TRACK SECTOR 2				nan		31
58	2024-12-01 16:50:16	Flag	CLEAR IN TRACK SECTOR 2		CLEAR	Sector	2.0		31
59	2024-12-01 16:50:17	Other	TRACK SURFACE SLIPPERY IN TRACK SECTOR 2				nan		31
60	2024-12-01 16:51:44	Flag	CLEAR IN TRACK SECTOR 2		CLEAR	Sector	2.0		32
61	2024-12-01 16:53:49	Flag	WAVED BLUE FLAG FOR CAR 77 (BOT) TIMED AT 19:53:48		BLUE	Driver	nan	77	33
62	2024-12-01 16:53:57	Flag	WAVED BLUE FLAG FOR CAR 77 (BOT) TIMED AT 19:53:56		BLUE	Driver	nan	77	34
63	2024-12-01 16:56:32	SafetyCar	SAFETY CAR DEPLOYED	DEPLOYED			nan		35
64	2024-12-01 16:58:21	Other	CAR 44 (HAM) TIME 1:25.713 DELETED - TRACK LIMITS AT TURN 7 LAP 33 19:53:44				nan		36
65	2024-12-01 16:59:01	SafetyCar	SAFETY CAR THROUGH THE PIT LANE	THROUGH THE PIT LANE			nan		36
66	2024-12-01 17:03:25	Other	LAPPED CARS MAY NOW OVERTAKE THE SAFETY CAR: 44, 77				nan		38
67	2024-12-01 17:03:37	Other	SAFETY CAR WILL USE START/FINISH STRAIGHT				nan		38
68	2024-12-01 17:05:22	SafetyCar	SAFETY CAR IN THIS LAP	IN THIS LAP			nan		39
69	2024-12-01 17:07:08	Flag	TRACK CLEAR		CLEAR	Track	nan		39
70	2024-12-01 17:07:59	Flag	YELLOW IN TRACK SECTOR 18		YELLOW	Sector	18.0		40
71	2024-12-01 17:08:03	Flag	CLEAR IN TRACK SECTOR 18		CLEAR	Sector	18.0		40
72	2024-12-01 17:08:10	Flag	YELLOW IN TRACK SECTOR 18		YELLOW	Sector	18.0		40
73	2024-12-01 17:08:23	Flag	YELLOW IN TRACK SECTOR 12		YELLOW	Sector	12.0		40
74	2024-12-01 17:08:24	SafetyCar	VIRTUAL SAFETY CAR DEPLOYED	DEPLOYED			nan		40
75	2024-12-01 17:08:44	SafetyCar	SAFETY CAR DEPLOYED	DEPLOYED			nan		40
76	2024-12-01 17:09:06	Flag	DOUBLE YELLOW IN TRACK SECTOR 18		DOUBLE YELLOW	Sector	18.0		41
77	2024-12-01 17:09:29	Flag	CLEAR IN TRACK SECTOR 18		CLEAR	Sector	18.0		41
78	2024-12-01 17:10:16	Other	INCIDENT INVOLVING CAR 4 (NOR) NOTED - FAILING TO SLOW UNDER YELLOW FLAGS				nan		41
79	2024-12-01 17:11:43	Other	FIA STEWARDS: INCIDENT INVOLVING CAR 4 (NOR) UNDER INVESTIGATION - FAILING TO SLOW UNDER YELLOW FLAGS				nan		42
80	2024-12-01 17:12:10	SafetyCar	SAFETY CAR IN THIS LAP	IN THIS LAP			nan		42
81	2024-12-01 17:12:14	Flag	CLEAR IN TRACK SECTOR 12		CLEAR	Sector	12.0		42
82	2024-12-01 17:13:28	Flag	TRACK CLEAR		CLEAR	Track	nan		42
83	2024-12-01 17:13:42	Other	CAR 14 (ALO) TIME 1:51.269 DELETED - TRACK LIMITS AT TURN 6 LAP 40 20:08:05				nan		42
84	2024-12-01 17:13:51	Other	CAR 10 (GAS) TIME 2:19.279 DELETED - TRACK LIMITS AT TURN 14 LAP 39 20:06:52				nan		43
85	2024-12-01 17:15:23	Drs	DRS ENABLED	ENABLED			nan		44
86	2024-12-01 17:15:49	Other	FIA STEWARDS: 10 SECOND STOP/GO PENALTY FOR CAR 4 (NOR) - FAILING TO SLOW UNDER YELLOW FLAGS				nan		44
87	2024-12-01 17:16:27	Other	CAR 30 (LAW) TIME 1:29.070 DELETED - TRACK LIMITS AT TURN 6 LAP 43 20:14:33				nan		44
88	2024-12-01 17:16:55	Other	TURN 1 INCIDENT INVOLVING CARS 23 (ALB) AND 20 (MAG) NOTED - CAUSING A COLLISION				nan		45
89	2024-12-01 17:17:38	Other	INCIDENT INVOLVING CAR 44 (HAM) NOTED - SPEEDING IN THE PIT LANE				nan		45
90	2024-12-01 17:18:02	Other	FIA STEWARDS: INCIDENT INVOLVING CAR 44 (HAM) UNDER INVESTIGATION - SPEEDING IN THE PIT LANE				nan		46
91	2024-12-01 17:19:25	Other	FIA STEWARDS: DRIVE THROUGH PENALTY FOR CAR 44 (HAM) - SPEEDING IN THE PIT LANE				nan		47
92	2024-12-01 17:20:32	Other	TURN 1 INCIDENT INVOLVING CARS 23 (ALB) AND 20 (MAG) NOTED - FORCING ANOTHER DRIVER OFF THE TRACK				nan		47
93	2024-12-01 17:22:21	Other	TURN 14 INCIDENT INVOLVING CAR 11 (PER) NOTED - REJOINING UNSAFELY				nan		49
94	2024-12-01 17:23:25	Other	CAR 10 (GAS) TIME 1:25.421 DELETED - TRACK LIMITS AT TURN 16 LAP 44 20:16:38				nan		49
95	2024-12-01 17:23:53	Other	FIA STEWARDS: TURN 1 INCIDENT INVOLVING CARS 23 (ALB) AND 20 (MAG) UNDER INVESTIGATION - CAUSING A COLLISION				nan		50
96	2024-12-01 17:23:55	Other	CAR 10 (GAS) TIME 1:24.508 DELETED - TRACK LIMITS AT TURN 16 (NEXT LAP)				nan		50
97	2024-12-01 17:23:59	Other	CAR 81 (PIA) TIME 1:23.624 DELETED - TRACK LIMITS AT TURN 6 LAP 48 20:21:27				nan		50
98	2024-12-01 17:26:51	Other	CAR 20 (MAG) TIME 1:25.823 DELETED - TRACK LIMITS AT TURN 1 LAP 46 20:18:26				nan		52
99	2024-12-01 17:27:31	Other	CAR 30 (LAW) TIME 1:28.245 DELETED - TRACK LIMITS AT TURN 16 LAP 51 20:26:53				nan		52
100	2024-12-01 17:28:33	Other	CAR 30 (LAW) TIME 1:27.612 DELETED - TRACK LIMITS AT TURN 16 (NEXT LAP)				nan		53
101	2024-12-01 17:29:39	Other	FIA STEWARDS: 10 SECOND TIME PENALTY FOR CAR 23 (ALB) - CAUSING A COLLISION				nan		54
102	2024-12-01 17:31:28	Other	CAR 77 (BOT) TIME 1:26.927 DELETED - TRACK LIMITS AT TURN 1 LAP 52 20:27:03				nan		55
103	2024-12-01 17:31:51	Other	FIA STEWARDS: TURN 1 INCIDENT INVOLVING CARS 23 (ALB) AND 20 (MAG) REVIEWED NO FURTHER INVESTIGATION - FORCING ANOTHER DRIVER OFF THE TRACK				nan		55
104	2024-12-01 17:32:10	Other	INCIDENT INVOLVING CAR 63 (RUS) NOTED - SAFETY CAR INFRINGEMENT				nan		56
105	2024-12-01 17:32:34	Other	CAR 4 (NOR) TIME 1:22.994 DELETED - TRACK LIMITS AT TURN 1 LAP 55 20:31:18				nan		56
106	2024-12-01 17:33:27	Flag	WAVED BLUE FLAG FOR CAR 23 (ALB) TIMED AT 20:33:26		BLUE	Driver	nan	23	57
107	2024-12-01 17:34:38	Flag	CHEQUERED FLAG		CHEQUERED	Track	nan		57
108	2024-12-01 17:36:07	Other	FIA STEWARDS: INCIDENT INVOLVING CAR 63 (RUS) UNDER INVESTIGATION - SAFETY CAR INFRINGEMENT				nan		57
109	2024-12-01 17:36:35	Other	CAR 4 (NOR) TIME 1:23.271 DELETED - TRACK LIMITS AT TURN 4 LAP 57 20:34:18				nan		57
110	2024-12-01 17:37:04	Other	FIA STEWARDS: 5 SECOND TIME PENALTY FOR CAR 63 (RUS) - SAFETY CAR INFRINGEMENT				nan		57
111	2024-12-01 17:42:33	Other	UPDATE: TURN 14 INCIDENT INVOLVING CAR 11 (PER) NOTED - DANGEROUS DRIVING				nan		57
112	2024-12-01 17:43:31	Other	FIA STEWARDS: TURN 14 INCIDENT INVOLVING CAR 11 (PER) WILL BE INVESTIGATED AFTER THE RACE - DANGEROUS DRIVING				nan		57