

2020 MAST Race Results - Race 6

Division Results

Race Course: W/L No Spinnaker

Course Conditions: 6 - 10 Knots SE/S, 1 Foot seas

Start	Boat	DIV	Base PHRF	DIV Pre-race PHRF	Finish Time	Start Time	Elapsed Time	DIV Correction Factor	DIV PHRF Time	Spin	DIV 10 minutes	DIV Spin Decimal	DIV Spin Correction	Code	Penalty	DIV Corrected Time	DIV Points	DIV PHRF Adjust	Div New PHRF
3rd - 6:30	Rogue	1	51	51	19:18:49	18:30:00	0:48:49	1.19800	0:58:29	N	5.85	1.35	0:00:00		00:00	0:58:29	0.75	-9	42
3rd - 6:30	Sabotage	1	69	54	19:19:08	18:30:00	0:49:08	1.19205	0:58:34	N	5.86	1.35	0:00:00		00:00	0:58:34	2	-6	48
3rd - 6:30	Berserkir	1	0	-6	19:15:22	18:30:00	0:45:22	1.32353	1:00:03	N	6.00	1.39	0:00:00		00:00	1:00:03	3	-3	-9
3rd - 6:30	Silvergirl	1	108	102	19:24:40	18:30:00	0:54:40	1.10429	1:00:22	N	6.04	1.39	0:00:00		00:00	1:00:22	4	0	102
3rd - 6:30	Austral	1	120	126	19:31:29	18:30:00	1:01:29	1.06509	1:05:29	N	6.55	1.51	0:00:00		00:00	1:05:29	5	2	128
3rd - 6:30	Eclipse	1	126	123	19:32:00	18:30:00	1:02:00	1.06984	1:06:20	N	6.63	1.53	0:00:00		00:00	1:06:20	6	2	125
3rd - 6:30	Lazier	1	120	120	19:32:02	18:30:00	1:02:02	1.07463	1:06:40	N	6.67	1.54	0:00:00		00:00	1:06:40	7	2	122
3rd - 6:30	Antonia	1	126	130	19:33:17	18:30:00	1:03:17	1.05882	1:07:00	N	6.70	1.55	0:00:00		00:00	1:07:00	8	2	132
3rd - 6:30	Blue Pearl	1	93	99	19:30:30	18:30:00	1:00:30	1.10940	1:07:07	N	6.71	1.55	0:00:00		00:00	1:07:07	9	2	101
3rd - 6:30	Wanderer	1	108	116	19:32:30	18:30:00	1:02:30	1.08108	1:07:34	N	6.76	1.56	0:00:00		00:00	1:07:34	10	2	118
3rd - 6:30	Bacchus	1	126	128	19:34:10	18:30:00	1:04:10	1.06195	1:08:08	N	6.81	1.57	0:00:00		00:00	1:08:08	11	2	130
3rd - 6:30	Bandito	1	108	116	19:38:32	18:30:00	1:08:32	1.08108	1:14:05	N	7.41	1.71	0:00:00		00:00	1:14:05	12	2	118
3rd - 6:30	Skelday	1	102	110	19:38:12	18:30:00	1:08:12	1.09091	1:14:24	N	7.44	1.72	0:00:00		00:00	1:14:24	13	2	112
3rd - 6:30	The 19th Hole	1	75	83	19:35:51	18:30:00	1:05:51	1.13744	1:14:54	N	7.49	1.73	0:00:00		00:00	1:14:54	14	2	85
3rd - 6:30	Vela	1	90	98	20:02:47	18:30:00	1:32:47	1.11111	1:43:06	N	10.31	2.38	0:00:00		00:00	1:43:06	15	2	100
3rd - 6:30	Snowballs Chance	1	126	105	22:00:00	18:30:00	3:30:00	1.09924	3:50:50	N	23.08	5.33	0:00:00	DNF	00:00	3:50:50	17	2	107
3rd - 6:30	Anafi	1	114	105	23:00:00	18:30:00	4:30:00	1.09924	4:56:48	N	29.68	6.85	0:00:00	DNC	00:00	4:56:48	18	0	105
3rd - 6:30	Kristin Marie	1	117	117	23:00:00	18:30:00	4:30:00	1.07946	4:51:27	N	29.15	6.73	0:00:00	DNC	00:00	4:51:27	18	0	117
2nd - 6:25	SOGO	2	132	132	19:23:44	18:25:00	0:58:44	1.05572	1:02:00	N	6.20	1.43	0:00:00		00:00	1:02:00	0.75	-9	123
2nd - 6:25	Nautical Sun	2	144	120	18:25:00	18:25:00	0:00:00	1.07463	0:00:00	N	0.00	0.00	0:00:00	CB	00:00	0:00:00	1	0	120
2nd - 6:25	Tibateau	2	141	134	19:25:58	18:25:00	1:00:58	1.05263	1:04:11	N	6.42	1.48	0:00:00		00:00	1:04:11	2	-6	128
2nd - 6:25	Rum Line	2	132	136	19:26:16	18:25:00	1:01:16	1.04956	1:04:18	N	6.43	1.48	0:00:00		00:00	1:04:18	3	-3	133
2nd - 6:25	Usual Suspects/ Cavallino	2	153	138	19:27:43	18:25:00	1:02:43	1.04651	1:05:38	N	6.56	1.51	0:00:00		00:00	1:05:38	4	0	138
2nd - 6:25	Cattywampus	2	132	123	19:28:16	18:25:00	1:03:16	1.06984	1:07:41	N	6.77	1.56	0:00:00		00:00	1:07:41	5	2	125
2nd - 6:25	Firewater	2	159	163	19:32:28	18:25:00	1:07:28	1.00982	1:08:08	N	6.81	1.57	0:00:00		00:00	1:08:08	6	2	165
2nd - 6:25	Wild Goose	2	138	141	19:33:13	18:25:00	1:08:13	1.04197	1:11:05	N	7.11	1.64	0:00:00		00:00	1:11:05	7	2	143
2nd - 6:25	Amok	2	153	154	19:34:38	18:25:00	1:09:38	1.02273	1:11:13	N	7.12	1.64	0:00:00		00:00	1:11:13	8	2	156
2nd - 6:25	Athena	2	147	151	23:00:00	18:25:00	4:35:00	1.02710	4:42:27	N	28.25	6.52	0:00:00	DNC	00:00	4:42:27	13	0	151
2nd - 6:25	Caravel	2	159	154	23:00:00	18:25:00	4:35:00	1.02273	4:41:15	N	28.13	6.49	0:00:00	DNC	00:00	4:41:15	13	0	154
2nd - 6:25	Footprints	2	156	160	23:00:00	18:25:00	4:35:00	1.01408	4:38:52	N	27.89	6.44	0:00:00	DNC	00:00	4:38:52	13	0	160
2nd - 6:25	Mirasol	2	141	141	23:00:00	18:25:00	4:35:00	1.04197	4:46:32	N	28.65	6.61	0:00:00	DNC	00:00	4:46:32	13	0	141
1st - 6:20	Wild Card	3	168	158	19:21:25	18:20:00	1:01:25	1.01695	1:02:27	N	6.25	1.44	0:00:00		00:00	1:02:27	0.75	-9	149
1st - 6:20	Borealis	3	168	150	19:21:05	18:20:00	1:01:05	1.02857	1:02:50	N	6.28	1.45	0:00:00		00:00	1:02:50	2	-6	144
1st - 6:20	Juniper	3	189	195	19:29:20	18:20:00	1:09:20	0.96644	1:07:00	N	6.70	1.55	0:00:00		00:00	1:07:00	3	-3	192
1st - 6:20	Yeah Buoy	3	192	185	19:32:14	18:20:00	1:12:14	0.97959	1:10:46	N	7.08	1.63	0:00:00		00:00	1:10:46	4	0	185
1st - 6:20	Aequitas	3	165	160	19:30:05	18:20:00	1:10:05	1.01408	1:11:04	N	7.11	1.64	0:00:00		00:00	1:11:04	5	2	162
1st - 6:20	Raido	3	216	224	19:49:37	18:20:00	1:29:37	0.93023	1:23:22	N	8.34	1.92	0:00:00		00:00	1:23:22	6	2	226
1st - 6:20	BeBop	3	175	173	19:47:25	18:20:00	1:27:25	0.99585	1:27:03	N	8.71	2.01	0:00:00		00:00	1:27:03	7	2	175
1st - 6:20	Lady Ayr	3	162	170	22:00:00	18:20:00	3:40:00	1.00000	3:40:00	N	22.00	5.08	0:00:00	DNF	00:00	3:40:00	10	2	172
1st - 6:20	Stimulus	3	279	276	22:00:00	18:20:00	3:40:00	0.87167	3:11:46	N	19.18	4.43	0:00:00	DNF	00:00	3:11:46	10	2	278
1st - 6:20	Anticipation	3	177	177	23:00:00	18:20:00	4:40:00	0.99037	4:37:18	N	27.73	6.40	0:00:00	DNC	00:00	4:37:18	15	0	177
1st - 6:20	Carina	3	165	167	23:00:00	18:20:00	4:40:00	1.00418	4:41:10	N	28.12	6.49	0:00:00	DNC	00:00	4:41:10	15	0	167
1st - 6:20	Cool Change	3	177	177	23:00:00	18:20:00	4:40:00	0.99037	4:37:18	N	27.73	6.40	0:00:00	DNC	00:00	4:37:18	15	0	177
1st - 6:20	Jamboree	3	255	251	23:00:00	18:20:00	4:40:00	0.89888	4:11:41	N	25.17	5.81	0:00:00	DNC	00:00	4:11:41	15	0	251
1st - 6:20	Minnehaha	3	252	252	23:00:00	18:20:00	4:40:00	0.89776	4:11:22	N	25.14	5.80	0:00:00	DNC	00:00	4:11:22	15	0	252
1st - 6:20	Sloop City	3	234	235	23:00:00	18:20:00	4:40:00	0.91720	4:16:49	N	25.68	5.93	0:00:00	DNC	00:00	4:16:49	15	0	235

2020 MAST Race Results - Race 6

Fleet Results

Race Course: W/L No Spinnaker

Course Conditions: 6 - 10 Knots SE/S, 1 Foot seas

30 boats racing

Boat2	Fleet Pre Race PHRH	Fleet Elapsed Time	Fleet Correction Factor	Fleet PHRF Time	Fleet 10 Minute	Fleet Spin Decimal	Fleet Spin Correction	Code2	Penalty2	Fleet Corrected Time	Fleet Points	Fleet PHRF Adjust	Fleet New PHRF
Rogue	63	0:48:49	1.17455	0:57:20	17:36:38	7:45:38	0:01:19		0:00:00	0:58:40	0.75	-18	45
Nautical Sun	117	0:00:00	1.07946	0:00:00	0:00:00	0:00:00	0:00:00	CB	0:00:00	0:00:00	1	0	117
Sabotage	58	0:49:08	1.18421	0:58:11	19:38:32	8:13:46	0:01:21		0:00:00	0:59:32	2	-15	43
Silvergirl	106	0:54:40	1.09756	1:00:00	0:00:00	9:14:07	0:01:23		0:00:00	1:01:23	3	-12	94
Berserkir	-9	0:45:22	1.33087	1:00:23	0:54:18	9:26:39	0:01:24		0:00:00	1:01:46	4	-9	-18
Wild Card	165	1:01:25	1.00699	1:01:51	4:25:51	10:15:28	0:01:26		0:00:00	1:03:16	5	-6	159
SOGO	132	0:58:44	1.05572	1:02:00	4:48:51	10:20:47	0:01:26		0:00:00	1:03:26	6	-3	129
Borealis	151	1:01:05	1.02710	1:02:44	6:34:24	10:45:08	0:01:27		0:00:00	1:04:11	7	0	151
Tibateau	149	1:00:58	1.03004	1:02:48	6:42:57	10:47:07	0:01:27		0:00:00	1:04:15	8	0	149
Rum Line	144	1:01:16	1.03746	1:03:34	8:32:55	11:12:30	0:01:28		0:00:00	1:05:02	9	0	144
Austral	136	1:01:29	1.04956	1:04:32	10:52:24	11:44:41	0:01:29		0:00:00	1:06:01	10	4	140
Usual Suspects/ Cavallino	144	1:02:43	1.03746	1:05:04	12:09:33	12:02:29	0:01:30		0:00:00	1:06:34	11	4	148
Juniper	205	1:09:20	0.95364	1:06:07	14:41:10	12:37:29	0:01:32		0:00:00	1:07:39	12	4	209
Eclipse	123	1:02:00	1.06984	1:06:20	15:11:30	12:44:29	0:01:32		0:00:00	1:07:52	13	4	127
Antonia	134	1:03:17	1.05263	1:06:37	15:52:25	1:54	0:01:32		0:00:00	1:08:09	14	4	138
Lazier	120	1:02:02	1.07463	1:06:40	15:59:26	12:55:33	0:01:32		0:00:00	1:08:12	15	4	124
Wanderer	124	1:02:30	1.06825	1:06:46	16:14:15	12:58:58	0:01:32		0:00:00	1:08:18	16	4	128
Blue Pearl	101	1:00:30	1.10599	1:06:55	16:35:24	13:03:51	0:01:33		0:00:00	1:08:27	17	4	105
Firewater	171	1:07:28	0.99861	1:07:22	17:41:44	13:19:09	0:01:33		0:00:00	1:08:56	18	4	175
Cattywampus	121	1:03:16	1.07303	1:07:53	18:55:41	13:36:14	0:01:34		0:00:00	1:09:27	19	4	125
Bacchus	130	1:04:10	1.05882	1:07:56	19:03:32	13:38:02	0:01:34		0:00:00	1:09:31	20	4	134
Wild Goose	154	1:08:13	1.02273	1:09:46	23:26:27	14:38:43	0:01:37		0:00:00	1:11:23	21	4	158
Amok	162	1:09:38	1.01124	1:10:25	0:59:52	15:00:17	0:01:38		0:00:00	1:12:02	22	4	166
Yeah Buoy	181	1:12:14	0.98495	1:11:09	2:45:05	15:24:34	0:01:39		0:00:00	1:12:47	23	4	185
Aequitas	158	1:10:05	1.01695	1:11:16	3:03:03	15:28:43	0:01:39		0:00:00	1:12:55	24	4	162
Bandito	124	1:08:32	1.06825	1:13:13	7:42:20	16:33:10	0:01:41		0:00:00	1:14:54	25	4	128
Skelday	118	1:08:12	1.07784	1:13:31	8:25:18	16:43:05	0:01:42		0:00:00	1:15:12	26	4	122
The 19th Hole	91	1:05:51	1.12324	1:13:58	9:31:03	16:58:16	0:01:42		0:00:00	1:15:40	27	4	95
Raido	232	1:29:37	0.92072	1:22:31	6:01:39	21:42:17	0:01:54		0:00:00	1:24:25	28	4	236
BeBop	171	1:27:25	0.99861	1:27:18	17:30:32	0:21:17	0:02:01		0:00:00	1:29:19	29	4	175
Vela	106	1:32:47	1.09756	1:41:50	4:24:18	8:24:31	0:02:21		0:00:00	1:44:11	30	4	110
Lady Ayr	178	3:40:00	0.98901	3:37:35	18:11:52	0:31:24	0:05:01	DNF	0:00:00	3:42:36	34	4	182
Snowballs Chance	99	3:30:00	1.10940	3:52:58	7:08:14	9:02:56	0:05:23	DNF	0:00:00	3:58:21	34	4	103
Stimulus	279	3:40:00	0.86852	3:11:04	2:34:36	9:50:22	0:04:25	DNF	0:00:00	3:15:29	34	4	283
Anafi	114	4:30:00	1.08434	4:52:46	6:39:02	18:10:18	0:06:45	DNC	0:00:00	4:59:32	46	0	114
Anticipation	177	4:40:00	0.99037	4:37:18	17:31:46	9:36:15	0:06:24	DNC	0:00:00	4:43:42	46	0	177
Athena	155	4:35:00	1.02128	4:40:51	2:02:33	11:34:08	0:06:29	DNC	0:00:00	4:47:20	46	0	155
Caravel	149	4:35:00	1.03004	4:43:16	7:49:42	12:54:16	0:06:32	DNC	0:00:00	4:49:48	46	0	149
Carina	169	4:40:00	1.00139	4:40:23	0:56:05	11:18:48	0:06:28	DNC	0:00:00	4:46:52	46	0	169
Cool Change	177	4:40:00	0.99037	4:37:18	17:31:46	9:36:15	0:06:24	DNC	0:00:00	4:43:42	46	0	177
Footprints	164	4:35:00	1.00840	4:37:19	17:32:46	9:36:29	0:06:24	DNC	0:00:00	4:43:43	46	0	164
Jamboree	259	4:40:00	0.88999	4:09:12	22:04:18	18:02:06	0:05:45	DNC	0:00:00	4:14:57	46	0	259
Kristin Marie	117	4:30:00	1.07946	4:51:27	3:29:25	17:26:32	0:06:44	DNC	0:00:00	4:58:11	46	0	117
Minnehaha	252	4:40:00	0.89776	4:11:22	3:17:30	19:14:23	0:05:48	DNC	0:00:00	4:17:10	46	0	252
Mirasol	141	4:35:00	1.04197	4:46:32	15:41:56	14:43:15	0:06:37	DNC	0:00:00	4:53:09	46	0	141
Sloop City	246	4:40:00	0.90452	4:13:16	7:50:21	20:17:21	0:05:51	DNC	0:00:00	4:19:07	46	0	246

2020 MAST Race Results - Race 6

Deciphering the MAST Scoring Results*

DIV Pre-race PHRF: This is the PHRF used in this race. It was adjusted in the previous race. At the beginning of the season it is the same as Base PHRF

DIV Correction Factor is a calculation of the handicap based on PHRF
 Correction Factor = $A/(B+PHRF)$

- Where "B" is a wind factor MAST uses an average wind number (550).
- "A" is adjusted so the Correction Factor equals 1.0 for the average boat in the fleet.
- Correction Factor = $720 / (550 + PHRF)$

DIV 10 minutes:
 Spinnaker corrections are calculated per 10 minutes sailed. This converts DIV PHRF Time to number of 10-minute segments using the formula
 $=([@DIV PHRF Time]] * 1440) / 10$

DIV Spin Decimal:
 Boats choosing to fly a spinnaker will be penalized 13.848 sec. for each 10 minutes sailed. This calculates the penalty by the fraction of an hour using the formula
 $=([@DIV 10 minutes]] * 13.848) / 60$

PHRF Adjust:

- Division: Yachts finishing 1st, 2nd, and 3rd in their division have their PHRF rating reduced by 9, 6, or 3 seconds respectively. The 4th place boat's PHRF is not adjusted. All other boats who competed in the race have their PHRFs increased by 2 seconds. This adjustment is made within individual divisions - comparing a Division 1 boat to a Division 2 boat isn't meaningful.
- Fleet (MAST Cup): Yachts finishing 1st, 2nd, 3rd, 4th, 5th and 6th in the fleet have their PHRF rating reduced by 18, 15, 12, 9, 6, and 3 seconds respectively. The 7th, 8th, and 9th place boats' PHRFs are not adjusted. All other boats who competed in the race have their PHRFs increased by 4 seconds.

DIV PHRF Time calculated with
 $=[@Elapsed Time]] * [@DIV Correction Factor]$

DIV Spin Correction:
 This calculates the penalty in seconds using the formula
 $=[@DIV Spin Decimal]] / 1440$

DIV Corrected Time = This is the final time for the race calculated with the formula
 $=[@DIV PHRF Time]] + [@DIV Spin Correction]] + [@Penalty]$

New PHRF:
 This is the PHRF used for the next race.

2020 MAST Racing Division Results - Race 1

Race Course:

Course Conditions:

Start	Boat	DIV	Base PHRF	DIV Pre-race PHRF	Finish Time	Start Time	Elapsed Time	DIV Correction Factor	DIV PHRF Time	Spin	DIV 10 minutes	DIV Spin Decimal	DIV Spin Correction	Code	Penalty	DIV Corrected Time	DIV Points	DIV PHRF Adjust	Div New PHRF
1st - 6:20	Jamboree	3	255	255	19:24:15	18:20:00	1:04:15	0.89441	0:57:28	Y	5.75	1.33	0:01:20		00:00	0:58:48	0.75	-9	246
1st - 6:20	Minnehaha	3	252	252	19:24:15	18:20:00	1:04:15	0.89776	0:57:41	Y	5.77	1.33	0:01:20		00:00	0:59:01	2	-6	246
1st - 6:20	Poggy*	3	222	222	19:24:15	18:20:00	1:04:15	0.93264	0:59:55	Y	5.99	1.38	0:01:30		00:00	1:01:18	3	-3	219
1st - 6:20	Anticipation	3	177	177	19:24:15	18:20:00	1:04:15	0.99037	1:03:38	Y	6.36	1.47	0:01:28		00:00	1:05:06	4	0	177
1st - 6:20	COOL CHANGE 4*	3	177	177	19:24:15	18:20:00	1:04:15	0.99037	1:03:38	Y	6.36	1.47	0:01:28		00:00	1:05:06	2	2	179
1st - 6:20	Borealis	3	168	168	19:24:15	18:20:00	1:04:15	1.00279	1:04:26	Y	6.44	1.49	0:01:29		00:00	1:05:55	2	2	170

Code: CB, DNF, DNC appear here

Penalty: adjustments for starting early or other penalties

*A division scoring report is shown here. Fleet scoring uses the same calculations.