

2020 MAST Race Results - Race 3

Division Results

Race Course: Distance - Shortened

Course Conditions: Winds: ENE 1.5 - 2 filling to NW 4 - 6 Calm 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	Sabotage	1	69	69	19:53:12	18:30:00	1:23:12	1.16317	1:36:47	Y	9.68	2.23	0:02:14		00:00	1:39:01	0.75	-9	60
3rd - 6:30	Snowballs Chance	1	126	126	20:04:36	18:30:00	1:34:36	1.06509	1:40:45	N	10.08	0.00	0:00:00		00:00	1:40:45	2	-6	120
3rd - 6:30	Silvergill	1	108	105	20:00:18	18:30:00	1:30:18	1.09924	1:39:16	Y	9.93	2.29	0:02:17		00:00	1:41:33	3	-3	102
3rd - 6:30	Anafi	1	114	105	20:00:57	18:30:00	1:30:57	1.09924	1:39:59	Y	10.00	2.31	0:02:18		00:00	1:42:17	4	0	105
3rd - 6:30	Blue Pearl	1	93	95	19:59:34	18:30:00	1:29:34	1.11628	1:39:59	Y	10.00	2.31	0:02:18		00:00	1:42:17	5	2	97
3rd - 6:30	Austral	1	120	120	20:06:03	18:30:00	1:36:03	1.07463	1:43:13	N	10.32	0.00	0:00:00		00:00	1:43:13	6	2	122
3rd - 6:30	Wanderer	1	108	110	20:05:45	18:30:00	1:35:45	1.09091	1:44:27	N	10.45	0.00	0:00:00		00:00	1:44:27	7	2	112
3rd - 6:30	Antonia	1	126	128	20:09:28	18:30:00	1:39:28	1.06195	1:45:38	N	10.56	0.00	0:00:00		00:00	1:45:38	8	2	130
3rd - 6:30	Bandito	1	108	110	20:08:19	18:30:00	1:38:19	1.09091	1:47:15	N	10.73	0.00	0:00:00		00:00	1:47:15	9	2	112
3rd - 6:30	Rogue	1	51	45	19:58:20	18:30:00	1:28:20	1.21008	1:46:53	Y	10.69	2.47	0:02:28		00:00	1:49:21	10	2	47
3rd - 6:30	The 19th Hole	1	75	77	20:04:10	18:30:00	1:34:10	1.14833	1:48:08	Y	10.81	2.50	0:02:30		00:00	1:50:38	11	2	79
3rd - 6:30	Skelday	1	102	104	20:11:48	18:30:00	1:41:48	1.10092	1:52:04	Y	11.21	2.59	0:02:35		00:00	1:54:40	12	2	106
3rd - 6:30	Vela	1	90	92	20:17:53	18:30:00	1:47:53	1.12150	2:00:59	N	12.10	0.00	0:00:00		00:00	2:00:59	13	2	94
3rd - 6:30	Eclipse	1	126	128	22:00:00	18:30:00	3:30:00	1.06195	3:43:01		22.30	0.00	0:00:00	DNF	00:00	3:43:01	15	2	130
3rd - 6:30	Berserkir	1	0	0	23:00:00	18:30:00	4:30:00	1.30909	5:53:27		35.35	0.00	0:00:00	DNC	00:00	5:53:27	16	0	0
3rd - 6:30	Kristin Marie	1	117	117	23:00:00	18:30:00	4:30:00	1.07946	4:51:27		29.15	0.00	0:00:00	DNC	00:00	4:51:27	16	0	117
2nd - 6:25	Caravel	2	159	161	19:54:10	18:25:00	1:29:10	1.01266	1:30:18	Y	9.03	2.42	0:02:25		00:00	1:32:43	0.75	-9	152
2nd - 6:25	Firewater	2	159	161	18:25:00	18:25:00	0:00:00	1.01266	0:00:00		0.00	0.00	0:00:00	CB	00:00	0:00:00	1	0	161
2nd - 6:25	Nautical Sun	2	144	135	19:56:12	18:25:00	1:31:12	1.05109	1:35:52	Y	9.59	2.21	0:02:13		00:00	1:38:04	2	-6	129
2nd - 6:25	Tibateau	2	141	135	20:01:12	18:25:00	1:36:12	1.05109	1:41:07	Y	10.11	2.33	0:02:20		00:00	1:43:27	3	-3	132
2nd - 6:25	Rum Line	2	132	132	20:05:02	18:25:00	1:40:02	1.05572	1:45:36	Y	10.56	0.00	0:00:00		00:00	1:45:36	4	0	132
2nd - 6:25	Amok	2	153	155	20:07:36	18:25:00	1:42:36	1.02128	1:44:47	Y	10.48	2.42	0:02:25		00:00	1:47:12	5	2	157
2nd - 6:25	Wild Goose	2	138	135	20:06:54	18:25:00	1:41:54	1.05109	1:47:06	Y	10.71	2.47	0:02:28		00:00	1:49:35	6	2	137
2nd - 6:25	Footprints	2	156	158	22:00:00	18:25:00	3:35:00	1.01695	3:38:39		21.86	0.00	0:00:00	DNF	00:00	3:38:39	8	2	160
2nd - 6:25	Athena	2	147	149	23:00:00	18:25:00	4:35:00	1.03004	4:43:16		28.33	0.00	0:00:00	DNC	00:00	4:43:16	13	0	149
2nd - 6:25	Cattywampus	2	132	132	23:00:00	18:25:00	4:35:00	1.05572	4:50:19		29.03	0.00	0:00:00	DNC	00:00	4:50:19	13	0	132
2nd - 6:25	Mirasol	2	141	141	23:00:00	18:25:00	4:35:00	1.04197	4:46:32		28.65	0.00	0:00:00	DNC	00:00	4:46:32	13	0	141
2nd - 6:25	SOGO	2	132	132	23:00:00	18:25:00	4:35:00	1.05572	4:50:19		29.03	0.00	0:00:00	DNC	00:00	4:50:19	13	0	132
2nd - 6:25	Usual Suspects	2	153	153	23:00:00	18:25:00	4:35:00	1.02418	4:41:39		28.17	0.00	0:00:00	DNC	00:00	4:41:39	13	0	153
1st - 6:20	Stimulus	3	279	281	20:12:02	18:20:00	1:52:02	0.86643	1:37:04	Y	9.71	2.24	0:02:14		00:00	1:39:19	0.75	-9	272
1st - 6:20	Jamboree	3	255	255	20:12:40	18:20:00	1:52:40	0.89441	1:40:46	N	10.08	0.00	0:00:00		00:00	1:40:46	2	-6	249
1st - 6:20	Sloop City	3	234	236	20:15:24	18:20:00	1:55:24	0.91603	1:45:43	N	10.57	0.00	0:00:00		00:00	1:45:43	3	-3	233
1st - 6:20	Borealis	3	168	168	20:07:39	18:20:00	1:47:39	1.00279	1:47:57	N	10.79	2.42	0:00:00		00:00	1:47:57	4	0	168
1st - 6:20	Aequitas	3	165	162	20:07:09	18:20:00	1:47:09	1.01124	1:48:21	N	10.84	0.00	0:00:00		00:00	1:48:21	5	2	164
1st - 6:20	Lady Ayr	3	162	164	20:08:09	18:20:00	1:48:09	1.00840	1:49:04	N	10.91	0.00	0:00:00		00:00	1:49:04	6	2	166
1st - 6:20	BeBop	3	175	169	20:09:59	18:20:00	1:49:59	1.00139	1:50:08	N	11.01	0.00	0:00:00		00:00	1:50:08	7	2	171
1st - 6:20	Raido	3	216	218	20:16:03	18:20:00	1:56:03	0.93750	1:48:48	Y	10.88	2.51	0:02:31		00:00	1:51:18	8	2	220
1st - 6:20	Juniper	3	189	191	20:18:42	18:20:00	1:58:42	0.97166	1:55:20	Y	11.53	2.66	0:02:40		00:00	1:58:00	9	2	193
1st - 6:20	Carina	3	165	165	22:00:00	18:20:00	3:40:00	1.00699	3:41:32		22.15	0.00	0:00:00	DNF	00:00	3:41:32	12	2	167
1st - 6:20	Wild Card	3	168	159	22:00:00	18:20:00	3:40:00	1.01551	3:43:25		22.34	0.00	0:00:00	DNF	00:00	3:43:25	12	2	161
1st - 6:20	Anticipation	3	177	177	23:00:00	18:20:00	4:40:00	0.99037	4:37:18		27.73	0.00	0:00:00	DNC	00:00	4:37:18	15	0	177
1st - 6:20	Cool Change	3	177	177	23:00:00	18:20:00	4:40:00	0.99037	4:37:18		27.73	0.00	0:00:00	DNC	00:00	4:37:18	15	0	177
1st - 6:20	Minnehaha	3	252	252	23:00:00	18:20:00	4:40:00	0.89776	4:11:22		25.14	0.00	0:00:00	DNC	00:00	4:11:22	15	0	252
1st - 6:20	Yeah Buoy	3	192	194	23:00:00	18:20:00	4:40:00	0.96774	4:30:58		27.10	0.00	0:00:00	DNC	00:00	4:30:58	15	0	194

2020 MAST Race Results - Race 3

Fleet Results

Race Course: Distance - Shortened

Course Conditions: Winds: ENE 1.5 - 2 filling to NW 4 - 6 Calm Seas 32 boats started

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
Caravel	163	1:29:10	1.00982	1:30:03	0:06:04	1:52:34	0:02:05		0:00:00	1:32:07	0.75	-18	145
Firewater	163	0:00:00	1.00982	0:00:00	0:00:00	0:00:00	0:00:00	CB	0:00:00	0:00:00	1	0	163
Sabotage	69	1:23:12	1.16317	1:36:47	16:15:40	5:36:21	0:02:14		0:00:00	1:39:01	2	-15	54
Stimulus	283	1:52:02	0.86435	1:36:50	16:24:19	5:38:21	0:02:14		0:00:00	1:39:04	3	-12	271
Nautical Sun	126	1:31:12	1.06509	1:37:08	17:07:36	5:48:20	0:02:15		0:00:00	1:39:23	4	-9	117
Silvergirl	112	1:30:18	1.08761	1:38:13	19:42:27	6:24:05	0:02:16		0:00:00	1:40:29	5	-6	106
Snowballs Chance	126	1:34:36	1.06509	1:40:45	1:49:04	7:48:42	0:00:00		0:00:00	1:40:45	6	-3	123
Jamboree	255	1:52:40	0.89441	1:40:46	1:50:54	7:49:07	0:00:00		0:00:00	1:40:46	7	0	255
Anafi	114	1:30:57	1.08434	1:38:37	20:41:21	6:37:40	0:02:17		0:00:00	1:40:54	8	0	114
Blue Pearl	97	1:29:34	1.11283	1:39:40	23:12:49	7:12:38	0:02:18		0:00:00	1:41:58	9	0	97
Tibateau	141	1:36:12	1.04197	1:40:14	0:34:11	7:31:24	0:02:19		0:00:00	1:42:33	10	4	145
Austral	124	1:36:03	1.06825	1:42:36	6:15:10	8:50:07	0:00:00		0:00:00	1:42:36	11	4	128
Wanderer	112	1:35:45	1.08761	1:44:08	9:56:01	9:41:05	0:00:00		0:00:00	1:44:08	12	4	116
Antonia	130	1:39:28	1.05882	1:45:19	12:45:44	2.43	0:00:00		0:00:00	1:45:19	13	4	134
Sloop City	238	1:55:24	0.91371	1:45:26	13:03:36	10:24:22	0:00:00		0:00:00	1:45:26	14	4	242
Amok	157	1:42:36	1.01839	1:44:29	10:46:04	9:52:38	0:02:25		0:00:00	1:46:54	15	4	161
Bandito	112	1:38:19	1.08761	1:46:56	16:38:00	11:13:51	0:00:00		0:00:00	1:46:56	16	4	116
Rum Line	132	1:40:02	1.05572	1:45:36	13:27:25	10:29:52	0:02:26		0:00:00	1:48:03	17	4	136
Rogue	51	1:28:20	1.19800	1:45:49	13:58:36	10:37:04	0:02:27		0:00:00	1:48:16	18	4	55
Wild Goose	142	1:41:54	1.04046	1:46:01	14:27:20	10:43:42	0:02:27		0:00:00	1:48:28	19	4	146
Lady Ayr	166	1:48:09	1.00559	1:48:45	21:00:36	12:14:28	0:00:00		0:00:00	1:48:45	20	4	170
Borealis	162	1:47:39	1.01124	1:48:52	21:15:47	12:17:58	0:00:00		0:00:00	1:48:52	21	4	166
Aequitas	156	1:47:09	1.01983	1:49:16	22:15:34	12:31:46	0:00:00		0:00:00	1:49:16	22	4	160
The 19th Hole	79	1:34:10	1.14467	1:47:47	18:41:47	11:42:26	0:02:29		0:00:00	1:50:17	23	4	83
Raido	220	1:56:03	0.93506	1:48:31	20:26:03	12:06:30	0:02:30		0:00:00	1:51:01	24	4	224
BeBop	163	1:49:59	1.00982	1:51:04	2:33:05	13:31:12	0:00:00		0:00:00	1:51:04	25	4	167
Skelday	106	1:41:48	1.09756	1:51:44	4:09:22	13:53:26	0:02:35		0:00:00	1:54:19	26	4	110
Juniper	193	1:58:42	0.96904	1:55:02	12:03:41	15:42:54	0:02:39		0:00:00	1:57:41	27	4	197
Vela	94	1:47:53	1.11801	2:00:37	1:28:33	18:48:40	0:00:00		0:00:00	2:00:37	28	4	98
Carina	165	3:40:00	1.00699	3:41:32	3:41:32	0:00:00	0:00:00	DNF	0:00:00	3:41:32	33	4	169
Eclipse	130	3:30:00	1.05882	3:42:21	5:38:49	0:00:00	0:00:00	DNF	0:00:00	3:42:21	33	4	134
Footprints	160	3:35:00	1.01408	3:38:02	19:16:03	0:00:00	0:00:00	DNF	0:00:00	3:38:02	33	4	164
Wild Card	153	3:40:00	1.02418	3:45:19	12:46:05	0:00:00	0:00:00	DNF	0:00:00	3:45:19	33	4	157
Anticipation	177	4:40:00	0.99037	4:37:18	17:31:46	0:00:00	0:00:00	DNC	0:00:00	4:37:18	44	0	177
Athena	151	4:35:00	1.02710	4:42:27	5:53:19	0:00:00	0:00:00	DNC	0:00:00	4:42:27	44	0	151
Berserkir	0	4:30:00	1.30909	5:53:27	8:17:27	0:00:00	0:00:00	DNC	0:00:00	5:53:27	44	0	0
Cattywampus	136	4:35:00	1.04956	4:48:38	20:42:41	0:00:00	0:00:00	DNC	0:00:00	4:48:38	44	0	136
Cool Change	177	4:40:00	0.99037	4:37:18	17:31:46	0:00:00	0:00:00	DNC	0:00:00	4:37:18	44	0	177
Kristin Marie	117	4:30:00	1.07946	4:51:27	3:29:25	0:00:00	0:00:00	DNC	0:00:00	4:51:27	44	0	117
Minnehaha	252	4:40:00	0.89776	4:11:22	3:17:30	0:00:00	0:00:00	DNC	0:00:00	4:11:22	44	0	252
Mirasol	141	4:35:00	1.04197	4:46:32	15:41:56	0:00:00	0:00:00	DNC	0:00:00	4:46:32	44	0	141
SOGO	132	4:35:00	1.05572	4:50:19	0:46:27	0:00:00	0:00:00	DNC	0:00:00	4:50:19	44	0	132
Usual Suspects	153	4:35:00	1.02418	4:41:39	3:57:37	0:00:00	0:00:00	DNC	0:00:00	4:41:39	44	0	153
Yeah Buoy	189	4:40:00	0.97429	4:32:48	6:43:21	0:00:00	0:00:00	DNC	0:00:00	4:32:48	44	0	189

2020 MAST Race Results - Race 3

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

Base PHRF is assigned at the beginning of the season

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

$$= ([@DIV 10 minutes] * 13.848) / 60$$

DIV Spin Correction: This calculates the penalty in seconds using the formula

$$= ([@DIV Spin Decimal] / 1440)$$

DIV PHRF Time calculated with

$$= ([@Elapsed Time] * [@DIV Correction Factor])$$

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 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

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	0	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	0	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.