

2020 MAST Race Results - Race 8

Division Results

Race Course: WL

Course Conditions: 9 - 12 ESE Seas 1 -2

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	Widespread Panic	1	102	102	19:13:24	18:30:00	0:43:24	1.10429	0:47:56	Y	4.79	1.11	0:01:06		00:00	0:49:02	0.75	-9	93
3rd - 6:30	Berserkir	1	0	-15	19:06:15	18:30:00	0:36:15	1.34579	0:48:47	Y	4.88	1.13	0:01:08		00:00	0:49:55	2	-6	-21
3rd - 6:30	Sabotage	1	69	48	19:10:38	18:30:00	0:40:38	1.20401	0:48:55	Y	4.89	1.13	0:01:08		00:00	0:50:03	3	-3	45
3rd - 6:30	Snowballs Chance	1	126	109	19:16:35	18:30:00	0:46:35	1.09256	0:50:54	Y	5.09	1.17	0:01:10		00:00	0:52:04	4	0	109
3rd - 6:30	Blue Pearl	1	93	103	19:17:25	18:30:00	0:47:25	1.10260	0:52:17	N	5.23	1.21	0:00:00		00:00	0:52:17	5	2	105
3rd - 6:30	Anafi	1	114	107	19:19:00	18:30:00	0:49:00	1.09589	0:53:42	Y	5.37	1.24	0:01:14		00:00	0:54:56	6	2	109
3rd - 6:30	Austral	1	120	128	19:21:54	18:30:00	0:51:54	1.06195	0:55:07	N	5.51	1.27	0:00:00		00:00	0:55:07	7	2	130
3rd - 6:30	Silvergirl	1	108	93	19:18:08	18:30:00	0:48:08	1.11975	0:53:54	Y	5.39	1.24	0:01:15		00:00	0:55:08	8	2	95
3rd - 6:30	Eclipse	1	126	122	19:21:13	18:30:00	0:51:13	1.07143	0:54:52	Y	5.49	1.27	0:01:16		00:00	0:56:08	9	2	124
3rd - 6:30	Lazier	1	120	124	19:21:52	18:30:00	0:51:52	1.06825	0:55:24	Y	5.54	1.28	0:01:17		00:00	0:56:41	10	2	126
3rd - 6:30	Antonia	1	126	134	19:24:29	18:30:00	0:54:29	1.05263	0:57:21	N	5.74	1.32	0:00:00		00:00	0:57:21	11	2	136
3rd - 6:30	Wanderer	1	108	120	19:25:16	18:30:00	0:55:16	1.07463	0:59:23	N	5.94	1.37	0:00:00		00:00	0:59:23	12	2	122
3rd - 6:30	Bacchus	1	126	130	19:27:02	18:30:00	0:57:02	1.05882	1:00:23	N	6.04	1.39	0:00:00		00:00	1:00:23	13	2	132
3rd - 6:30	The 19th Hole	1	75	85	19:23:51	18:30:00	0:53:51	1.13386	1:01:03	Y	6.11	1.41	0:01:25		00:00	1:02:28	14	2	87
3rd - 6:30	Rogue	1	51	44	19:21:53	18:30:00	0:51:53	1.21212	1:02:53	N	6.29	1.45	0:00:00		00:00	1:02:53	15	2	46
3rd - 6:30	Bandito	1	108	120	19:28:47	18:30:00	0:58:47	1.07463	1:03:10	N	6.32	1.46	0:00:00		00:00	1:03:10	16	2	122
3rd - 6:30	Kristin Marie	1	117	117	19:39:42	18:30:00	1:09:42	1.07946	1:15:14	N	7.52	1.74	0:00:00		00:00	1:15:14	17	2	119
3rd - 6:30	Skelday	1	102	114	23:00:00	18:30:00	4:30:00	1.08434	4:52:46		29.28	6.76	0:06:45	DNC	00:00	4:59:32	19	0	114
3rd - 6:30	Vela	1	90	102	23:00:00	18:30:00	4:30:00	1.10429	4:58:10		29.82	6.88	0:00:00	DNC	00:00	4:58:10	19	0	102
2nd - 6:25	Usual Suspects/ Cavallino	2	153	138	19:12:02	18:25:00	0:47:02	1.04651	0:49:13	Y	4.92	1.14	0:01:08		00:00	0:50:21	0.75	-9	129
2nd - 6:25	Wild Goose	2	138	140	18:25:00	18:25:00	0:00:00	1.04348	0:00:00		0.00	0.00	0:00:00	CB	00:00	0:00:00	1	0	140
2nd - 6:25	Nautical Sun	2	144	111	19:14:30	18:25:00	0:49:30	1.08926	0:53:55	Y	5.39	1.24	0:01:15		00:00	0:55:10	2	-6	105
2nd - 6:25	Rum Line	2	132	133	19:21:25	18:25:00	0:56:25	1.05417	0:59:28	N	5.95	1.37	0:00:00		00:00	0:59:28	3	-3	130
2nd - 6:25	Firewater	2	159	159	19:24:36	18:25:00	0:59:36	1.01551	1:00:31	N	6.05	1.40	0:00:00		00:00	1:00:31	4	0	159
2nd - 6:25	Cattywampus	2	132	127	19:21:55	18:25:00	0:56:55	1.06352	1:00:32	N	6.05	1.40	0:00:00		00:00	1:00:32	5	2	129
2nd - 6:25	Caravel	2	159	156	19:25:32	18:25:00	1:00:32	1.01983	1:01:44	N	6.17	1.42	0:00:00		00:00	1:01:44	6	2	158
2nd - 6:25	Footprints	2	156	160	19:46:04	18:25:00	1:21:04	1.01408	1:22:13	N	8.22	1.90	0:00:00		00:00	1:22:13	7	2	162
2nd - 6:25	Amok	2	153	156	23:00:00	18:25:00	4:35:00	1.01983	4:40:27		28.05	6.47	0:00:00	DNC	00:00	4:40:27	13	0	156
2nd - 6:25	Athena	2	147	151	23:00:00	18:25:00	4:35:00	1.02710	4:42:27		28.25	6.52	0:00:00	DNC	00:00	4:42:27	13	0	151
2nd - 6:25	Tibateau	2	141	128	23:00:00	18:25:00	4:35:00	1.06195	4:52:02		29.20	6.74	0:00:00	DNC	00:00	4:52:02	13	0	128
2nd - 6:25	Mirasol	2	141	141	23:00:00	18:25:00	4:35:00	1.04197	4:46:32		28.65	6.61	0:00:00	DNC	00:00	4:46:32	13	0	141
2nd - 6:25	SOGO	2	132	123	23:00:00	18:25:00	4:35:00	1.06984	4:54:12		29.42	6.79	0:00:00	DNC	00:00	4:54:12	13	0	123
1st - 6:20	Borealis	3	168	135	19:09:37	18:20:00	0:49:37	1.05109	0:52:09	N	5.22	1.20	0:00:00		00:00	0:52:09	0.75	-9	126
1st - 6:20	Wild Card	3	168	143	19:10:33	18:20:00	0:50:33	1.03896	0:52:31	Y	5.25	1.21	0:01:13		00:00	0:53:44	2	-6	137
1st - 6:20	Yeah Buoy	3	192	182	19:17:52	18:20:00	0:57:52	0.98361	0:56:55	N	5.69	1.31	0:00:00		00:00	0:56:55	3	-3	179
1st - 6:20	Aequitas	3	165	162	19:17:24	18:20:00	0:57:24	1.01124	0:58:03	N	5.80	1.34	0:00:00		00:00	0:58:03	4	0	162
1st - 6:20	Raido	3	216	228	19:27:54	18:20:00	1:07:54	0.92545	1:02:50	N	6.28	1.45	0:00:00		00:00	1:02:50	5	2	230
1st - 6:20	Sloop City	3	234	237	19:42:28	18:20:00	1:22:28	0.91487	1:15:27	N	7.54	1.74	0:00:00		00:00	1:15:27	6	2	239
1st - 6:20	Stimulus	3	279	280	19:48:29	18:20:00	1:28:29	0.86747	1:16:45	N	7.68	1.77	0:00:00		00:00	1:16:45	7	2	282
1st - 6:20	Jamboree	3	255	253	23:00:00	18:20:00	4:40:00	0.89664	4:11:04		25.11	5.79	0:00:00	DNC	00:00	4:11:04	15	0	253
1st - 6:20	Minnehaha	3	252	252	23:00:00	18:20:00	4:40:00	0.89776	4:11:22		25.14	5.80	0:00:00	DNC	00:00	4:11:22	15	0	252
1st - 6:20	Juniper	3	189	192	23:00:00	18:20:00	4:40:00	0.97035	4:31:42		27.17	6.27	0:00:00	DNC	00:00	4:31:42	15	0	192
1st - 6:20	Lady Ayr	3	162	174	23:00:00	18:20:00	4:40:00	0.99448	4:38:27		27.85	6.43	0:00:00	DNC	00:00	4:38:27	15	0	174
1st - 6:20	Anticipation	3	177	177	23:00:00	18:20:00	4:40:00	0.99037	4:37:18		27.73	6.40	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	6.40	0:00:00	DNC	00:00	4:37:18	15	0	177
1st - 6:20	BeBop	3	175	175	23:00:00	18:20:00	4:40:00	0.99310	4:38:04		27.81	6.42	0:00:00	DNC	00:00	4:38:04	15	0	175
1st - 6:20	Carina	3	165	167	23:00:00	18:20:00	4:40:00	1.00418	4:41:10		28.12	6.49	0:00:00	DNC	00:00	4:41:10	15	0	167

2020 MAST Race Results - Race 8

Fleet Results

Race Course: W/L

Course Conditions: 9 - 12 ESE Seas 1 - 2

31 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
Widespread Panic	102	0:43:24	1.10429	0:47:56	19:01:24	2:32:51	0:01:06		0:00:00	0:49:02	0.75	-18	84
Wild Goose	162	0:00:00	1.01124	0:00:00	0:00:00	0:00:00	0:00:00	CB	0:00:00	0:00:00	1	0	162
Usual Suspects/ Cavallino	148	0:47:02	1.03152	0:48:31	20:26:16	2:52:26	0:01:07		0:00:00	0:49:38	2	-15	133
Sabotage	34	0:40:38	1.23288	0:50:06	0:13:48	3:44:57	0:01:09		0:00:00	0:51:15	3	-12	22
Berserkir	-30	0:36:15	1.38462	0:50:12	0:27:42	3:48:09	0:01:10		0:00:00	0:51:21	4	-9	-39
Borealis	145	0:49:37	1.03597	0:51:24	3:21:48	4:28:20	0:00:00		0:00:00	0:51:24	5	-6	139
Blue Pearl	109	0:47:25	1.09256	0:51:48	4:20:02	4:41:47	0:00:00		0:00:00	0:51:48	6	-3	106
Snowballs Chance	107	0:46:35	1.09589	0:51:03	2:31:14	4:16:40	0:01:11		0:00:00	0:52:14	7	0	107
Wild Card	156	0:50:33	1.01983	0:51:33	3:43:33	4:33:21	0:01:11		0:00:00	0:52:45	8	0	156
Anafi	118	0:49:00	1.07784	0:52:49	6:45:16	5:15:18	0:01:13		0:00:00	0:54:02	9	0	118
Austral	140	0:51:54	1.04348	0:54:09	9:58:32	5:59:54	0:00:00		0:00:00	0:54:09	10	4	144
Nautical Sun	117	0:49:30	1.07946	0:53:26	8:14:24	5:35:52	0:01:14		0:00:00	0:54:40	11	4	121
Yeah Buoy	189	0:57:52	0.97429	0:56:23	15:18:34	7:13:46	0:00:00		0:00:00	0:56:23	12	4	193
Silvergirl	76	0:48:08	1.15016	0:55:22	12:51:59	6:39:56	0:01:17		0:00:00	0:56:38	13	4	80
Lazier	124	0:51:52	1.06825	0:55:24	12:58:32	6:41:27	0:01:17		0:00:00	0:56:41	14	4	128
Antonia	142	0:54:29	1.04046	0:56:41	16:03:03	1:31	0:00:00		0:00:00	0:56:41	15	4	146
Eclipse	112	0:51:13	1.08761	0:55:42	13:41:22	6:51:20	0:01:17		0:00:00	0:56:59	16	4	116
Aequitas	166	0:57:24	1.00559	0:57:43	18:31:47	7:58:21	0:00:00		0:00:00	0:57:43	17	4	170
Rum Line	148	0:56:25	1.03152	0:58:12	19:40:03	8:14:07	0:00:00		0:00:00	0:58:12	18	4	152
Wanderer	132	0:55:16	1.05572	0:58:21	20:01:50	8:19:09	0:00:00		0:00:00	0:58:21	19	4	136
Firewater	179	0:59:36	0.98765	0:58:52	21:16:27	8:36:22	0:00:00		0:00:00	0:58:52	20	4	183
Bacchus	134	0:57:02	1.05263	1:00:02	0:05:03	9:15:17	0:00:00		0:00:00	1:00:02	21	4	138
Cattywampus	129	0:56:55	1.06038	1:00:21	0:50:54	9:25:52	0:00:00		0:00:00	1:00:21	22	4	133
The 19th Hole	95	0:53:51	1.11628	1:00:07	0:16:04	9:17:49	0:01:23		0:00:00	1:01:30	23	4	99
Raido	240	1:07:54	0.91139	1:01:53	4:31:14	10:16:43	0:00:00		0:00:00	1:01:53	24	4	244
Caravel	153	1:00:32	1.02418	1:02:00	4:47:35	10:20:29	0:00:00		0:00:00	1:02:00	25	4	157
Bandito	132	0:58:47	1.05572	1:02:04	4:56:27	10:22:32	0:00:00		0:00:00	1:02:04	26	4	136
Rogue	45	0:51:53	1.21008	1:02:47	6:40:47	10:46:37	0:00:00		0:00:00	1:02:47	27	4	49
Sloop City	250	1:22:28	0.90000	1:14:13	10:07:41	17:06:43	0:00:00		0:00:00	1:14:13	28	4	254
Kristin Marie	117	1:09:42	1.07946	1:15:14	12:34:20	17:40:34	0:00:00		0:00:00	1:15:14	29	4	121
Stimulus	287	1:28:29	0.86022	1:16:07	14:40:31	18:09:41	0:00:00		0:00:00	1:16:07	30	4	291
Footprints	164	1:21:04	1.00840	1:21:45	4:11:42	21:16:54	0:00:00		0:00:00	1:21:45	31	4	168
Amok	166	4:35:00	1.00559	4:36:32	15:41:14	0:00:00	0:00:00	DNC	0:00:00	4:36:32	47	0	166
Anticipation	177	4:40:00	0.99037	4:37:18	17:31:46	9:36:15	0:00:00	DNC	0:00:00	4:37:18	47	0	177
Athena	155	4:35:00	1.02128	4:40:51	2:02:33	0:00:00	0:00:00	DNC	0:00:00	4:40:51	47	0	155
BeBop	175	4:40:00	0.99310	4:38:04	19:21:56	10:01:41	0:00:00	DNC	0:00:00	4:38:04	47	0	175
Carina	169	4:40:00	1.00139	4:40:23	0:56:05	0:00:00	0:00:00	DNC	0:00:00	4:40:23	47	0	169
Cool Change	177	4:40:00	0.99037	4:37:18	17:31:46	9:36:15	0:00:00	DNC	0:00:00	4:37:18	47	0	177
Jamboree	263	4:40:00	0.88561	4:07:58	19:07:45	17:21:21	0:00:00	DNC	0:00:00	4:07:58	47	0	263
Juniper	209	4:40:00	0.94862	4:25:37	13:28:13	3:07:41	0:00:00	DNC	0:00:00	4:25:37	47	0	209
Lady Ayr	186	4:40:00	0.97826	4:33:55	9:23:29	7:43:33	0:00:00	DNC	0:00:00	4:33:55	47	0	186
Minnehaha	252	4:40:00	0.89776	4:11:22	3:17:30	19:14:23	0:00:00	DNC	0:00:00	4:11:22	47	0	252
Mirasol	141	4:35:00	1.04197	4:46:32	15:41:56	14:43:15	0:00:00	DNC	0:00:00	4:46:32	47	0	141
Skelday	126	4:30:00	1.06509	4:47:34	18:10:39	15:17:35	0:00:00	DNC	0:00:00	4:47:34	47	0	126
SOGO	129	4:35:00	1.06038	4:51:36	3:51:10	17:31:34	0:00:00	DNC	0:00:00	4:51:36	47	0	129
Tibateau	149	4:35:00	1.03004	4:43:16	7:49:42	12:54:16	0:00:00	DNC	0:00:00	4:43:16	47	0	149
Vela	114	4:30:00	1.08434	4:52:46	6:39:02	18:10:18	0:00:00	DNC	0:00:00	4:52:46	47	0	114

2020 MAST Race Results - Race 8

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.