

# 2020 MAST Race Results - Race 7

## Division Results

Race Course: Triangle

Course Conditions: Winds NE 6 - 10 Seas 2 feet

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	Silvergill	1	108	102	19:19:42	18:30:00	0:49:42	1.10429	0:54:53	Y	5.49	1.27	0:01:16		00:00	0:56:09	0.75	-9	93
3rd - 6:30	The 19th Hole	1	75	85	18:30:00	18:30:00	0:00:00	1.13386	0:00:00		0.00	0.00	0:00:00	CB	00:00	0:00:00	1	0	85
3rd - 6:30	Berserkir	1	0	-9	19:11:35	18:30:00	0:41:35	1.33087	0:55:21	Y	5.53	1.28	0:01:17		00:00	0:56:37	2	-6	-15
3rd - 6:30	Eclipse	1	126	125	19:22:41	18:30:00	0:52:41	1.06667	0:56:12	Y	5.62	1.30	0:01:18		00:00	0:57:30	3	-3	122
3rd - 6:30	Sabotage	1	69	48	19:18:44	18:30:00	0:48:44	1.20401	0:58:41	N	5.87	1.35	0:00:00		00:00	0:58:41	4	0	48
3rd - 6:30	Rogue	1	51	42	19:19:13	18:30:00	0:49:13	1.21622	0:59:51	N	5.99	1.38	0:00:00		00:00	0:59:51	5	2	44
3rd - 6:30	Lazier	1	120	122	19:24:54	18:30:00	0:54:54	1.07143	0:58:49	Y	5.88	1.36	0:01:21		00:00	1:00:11	6	2	124
3rd - 6:30	Snowballs Chance	1	126	107	19:23:50	18:30:00	0:53:50	1.09589	0:59:00	Y	5.90	1.36	0:01:22		00:00	1:00:21	7	2	109
3rd - 6:30	Wanderer	1	108	118	19:26:50	18:30:00	0:56:50	1.07784	1:01:15	N	6.13	1.41	0:00:00		00:00	1:01:15	8	2	120
3rd - 6:30	Anafi	1	114	105	19:24:45	18:30:00	0:54:45	1.09924	1:00:11	Y	6.02	1.39	0:01:23		00:00	1:01:34	9	2	107
3rd - 6:30	Antonia	1	126	132	19:29:06	18:30:00	0:59:06	1.05572	1:02:24	Y	6.24	1.44	0:01:26		00:00	1:03:50	10	2	134
3rd - 6:30	Blue Pearl	1	93	101	19:29:28	18:30:00	0:59:28	1.10599	1:05:46	Y	6.58	1.52	0:01:31		00:00	1:07:17	11	2	103
3rd - 6:30	Bandito	1	108	118	19:33:03	18:30:00	1:03:03	1.07784	1:07:57	N	6.80	1.57	0:00:00		00:00	1:07:57	12	2	120
3rd - 6:30	Skelday	1	102	112	19:35:28	18:30:00	1:05:28	1.08761	1:11:12	Y	7.12	1.64	0:01:39		00:00	1:12:51	13	2	114
3rd - 6:30	Vela	1	90	100	19:42:28	18:30:00	1:12:28	1.10769	1:20:16	N	8.03	1.85	0:00:00		00:00	1:20:16	14	2	102
3rd - 6:30	Austral	1	120	128	23:00:00	18:30:00	4:30:00	1.06195	4:46:44		28.67	6.62	0:00:00	DNC	00:00	4:46:44	18	0	128
3rd - 6:30	Bacchus	1	126	130	23:00:00	18:30:00	4:30:00	1.05882	4:45:53		28.59	6.60	0:06:36	DNC	00:00	4:52:29	18	0	130
3rd - 6:30	Kristin Marie	1	117	117	23:00:00	18:30:00	4:30:00	1.07946	4:51:27		29.15	6.73	0:00:00	DNC	00:00	4:51:27	18	0	117
2nd - 6:25	Nautical Sun	2	144	120	19:18:59	18:25:00	0:53:59	1.07463	0:58:01	Y	5.80	1.34	0:01:20		00:00	0:59:21	0.75	-9	111
2nd - 6:25	Firewater	2	159	165	19:27:49	18:25:00	1:02:49	1.00699	1:03:15	N	6.33	1.46	0:00:00		00:00	1:03:15	2	-6	159
2nd - 6:25	Wild Goose	2	138	143	19:26:57	18:25:00	1:01:57	1.03896	1:04:22	N	6.44	1.49	0:00:00		00:00	1:04:22	3	-3	140
2nd - 6:25	Rum Line	2	132	133	19:26:17	18:25:00	1:01:17	1.05417	1:04:36	N	6.46	1.49	0:00:00		00:00	1:04:36	4	0	133
2nd - 6:25	Caravel	2	159	154	19:31:42	18:25:00	1:06:42	1.02273	1:08:13	N	6.82	1.57	0:00:00		00:00	1:08:13	5	2	156
2nd - 6:25	Cattywampus	2	132	125	19:30:30	18:25:00	1:05:30	1.06667	1:09:52	Y	6.99	1.61	0:01:37		00:00	1:11:29	6	2	127
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	Footprints	2	156	160	23:00:00	18:25:00	4:35:00	1.01408	4:38:52		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		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
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	Usual Suspects/ Cavallino	2	153	138	23:00:00	18:25:00	4:35:00	1.04651	4:47:47		28.78	6.64	0:00:00	DNC	00:00	4:47:47	13	0	138
1st - 6:20	Borealis	3	168	144	19:16:33	18:20:00	0:56:33	1.03746	0:58:40	Y	5.87	1.35	0:01:21		00:00	1:00:01	0.75	-9	135
1st - 6:20	Wild Card	3	168	149	19:17:18	18:20:00	0:57:18	1.03004	0:59:01	Y	5.90	1.36	0:01:22		00:00	1:00:23	2	-6	143
1st - 6:20	Yeah Buoy	3	192	185	19:22:29	18:20:00	1:02:29	0.97959	1:01:12	N	6.12	1.41	0:00:00		00:00	1:01:12	3	-3	182
1st - 6:20	Aequitas	3	165	162	19:24:02	18:20:00	1:04:02	1.01124	1:04:45	N	6.48	1.49	0:00:00		00:00	1:04:45	4	0	162
1st - 6:20	Lady Ayr	3	162	172	19:27:37	18:20:00	1:07:37	0.99723	1:07:26	N	6.74	1.56	0:00:00		00:00	1:07:26	5	2	174
1st - 6:20	Raido	3	216	226	19:33:05	18:20:00	1:13:05	0.92784	1:07:49	N	6.78	1.57	0:00:00		00:00	1:07:49	6	2	228
1st - 6:20	Sloop City	3	234	235	19:37:25	18:20:00	1:17:25	0.91720	1:11:00	N	7.10	1.64	0:00:00		00:00	1:11:00	7	2	237
1st - 6:20	Stimulus	3	279	278	19:46:57	18:20:00	1:26:57	0.86957	1:15:37	N	7.56	1.75	0:00:00		00:00	1:15:37	8	2	280
1st - 6:20	Jamboree	3	255	251	19:45:30	18:20:00	1:25:30	0.89888	1:16:51	N	7.69	1.77	0:00:00		00:00	1:16:51	9	2	253
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	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
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	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	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

# 2020 MAST Race Results - Race 7

## Fleet Results

Race Course: Triangle

Course Conditions: Winds NE 6 - 10 Seas 2 feet

29 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
Silvergill	94	0:49:42	1.11801	0:55:34	13:21:23	6:46:43	0:01:17		0:00:00	0:56:51	0.75	-18	76
The 19th Hole	95	0:00:00	1.11628	0:00:00	0:00:00	0:00:00	0:00:00	CB	0:00:00	0:00:00	1	0	95
Eclipse	127	0:52:41	1.06352	0:56:02	14:28:15	7:02:09	0:01:18		0:00:00	0:57:19	2	-15	112
Berserker	-18	0:41:35	1.35338	0:56:17	15:04:04	7:10:25	0:01:18		0:00:00	0:57:35	3	-12	-30
Sabotage	43	0:48:44	1.21417	0:59:10	22:00:32	8:46:32	0:00:00		0:00:00	0:59:10	4	-9	34
Borealis	151	0:56:33	1.02710	0:58:05	19:23:55	8:10:23	0:01:20		0:00:00	0:59:25	5	-6	145
Wild Card	159	0:57:18	1.01551	0:58:11	19:39:13	8:13:55	0:01:21		0:00:00	0:59:32	6	-3	156
Rogue	45	0:49:13	1.21008	0:59:33	22:56:06	8:59:22	0:00:00		0:00:00	0:59:33	7	0	45
Nautical Sun	117	0:53:59	1.07946	0:58:16	19:51:18	8:16:43	0:01:21		0:00:00	0:59:37	8	0	117
Lazier	124	0:54:54	1.06825	0:58:39	20:45:09	8:29:08	0:01:21		0:00:00	1:00:00	9	0	124
Wanderer	128	0:56:50	1.06195	1:00:21	0:50:58	9:25:53	0:00:00		0:00:00	1:00:21	10	4	132
Snowballs Chance	103	0:53:50	1.10260	0:59:21	22:27:23	8:52:44	0:01:22		0:00:00	1:00:44	11	4	107
Anafi	114	0:54:45	1.08434	0:59:22	22:28:55	8:53:05	0:01:22		0:00:00	1:00:44	12	4	118
Yeah Buoy	185	1:02:29	0.97959	1:01:12	2:53:59	9:54:16	0:00:00		0:00:00	1:01:12	13	4	189
Firewater	175	1:02:49	0.99310	1:02:23	5:43:13	10:33:20	0:00:00		0:00:00	1:02:23	14	4	179
Wild Goose	158	1:01:57	1.01695	1:03:00	7:12:00	10:53:49	0:00:00		0:00:00	1:03:00	15	4	162
Antonia	138	0:59:06	1.04651	1:01:51	4:26:14	1.43	0:01:26		0:00:00	1:03:17	16	4	142
Rum Line	144	1:01:17	1.03746	1:03:35	8:35:25	11:13:04	0:00:00		0:00:00	1:03:35	17	4	148
Aequitas	162	1:04:02	1.01124	1:04:45	11:24:24	11:52:04	0:01:30		0:00:00	1:06:15	18	4	166
Lady Ayr	182	1:07:37	0.98361	1:06:30	15:37:11	12:50:25	0:00:00		0:00:00	1:06:30	19	4	186
Blue Pearl	105	0:59:28	1.09924	1:05:22	12:52:59	12:12:31	0:01:31		0:00:00	1:06:53	20	4	109
Raido	236	1:13:05	0.91603	1:06:57	16:40:18	13:04:59	0:00:00		0:00:00	1:06:57	21	4	240
Bandito	128	1:03:03	1.06195	1:06:57	16:41:38	13:05:17	0:00:00		0:00:00	1:06:57	22	4	132
Caravel	149	1:06:42	1.03004	1:08:42	20:53:21	14:03:23	0:00:00		0:00:00	1:08:42	23	4	153
Sloop City	246	1:17:25	0.90452	1:10:02	0:03:37	14:47:18	0:00:00		0:00:00	1:10:02	24	4	250
Cattywampus	125	1:05:30	1.06667	1:09:52	23:40:48	14:42:02	0:01:37		0:00:00	1:11:29	25	4	129
Skelday	122	1:05:28	1.07143	1:10:09	0:20:34	14:51:13	0:01:37		0:00:00	1:11:46	26	4	126
Stimulus	283	1:26:57	0.86435	1:15:09	12:22:18	17:37:47	0:00:00		0:00:00	1:15:09	27	4	287
Jamboree	259	1:25:30	0.88999	1:16:06	14:37:32	18:09:00	0:00:00		0:00:00	1:16:06	28	4	263
Vela	110	1:12:28	1.09091	1:19:03	21:43:51	19:47:24	0:00:00		0:00:00	1:19:03	29	4	114
Amok	166	4:35:00	1.00559	4:36:32	15:41:14	9:10:44	0:00:00	DNC	0:00:00	4:36:32	46	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	46	0	177
Athena	155	4:35:00	1.02128	4:40:51	2:02:33	11:34:08	0:00:00	DNC	0:00:00	4:40:51	46	0	155
Austral	140	4:30:00	1.04348	4:41:44	4:10:26	12:03:39	0:00:00	DNC	0:00:00	4:41:44	46	0	140
Bacchus	134	4:30:00	1.05263	4:44:13	10:06:19	13:25:48	0:00:00	DNC	0:00:00	4:44:13	46	0	134
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	46	0	175
Carina	169	4:40:00	1.00139	4:40:23	0:56:05	11:18:48	0:00:00	DNC	0:00:00	4:40:23	46	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	46	0	177
Footprints	164	4:35:00	1.00840	4:37:19	17:32:46	9:36:29	0:00:00	DNC	0:00:00	4:37:19	46	0	164
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	46	0	209
Kristin Marie	117	4:30:00	1.07946	4:51:27	3:29:25	17:26:32	0:00:00	DNC	0:00:00	4:51:27	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
SOGO	129	4:35:00	1.06038	4:51:36	3:51:10	17:31:34	0:06:44	DNC	0:00:00	4:58:20	46	0	129
Tibateau	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
Usual Suspects/ Cavallino	148	4:35:00	1.03152	4:43:40	8:48:08	13:07:45	0:06:33	DNC	0:00:00	4:50:13	46	0	148

# 2020 MAST Race Results - Race 7

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

**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  
 $=[@DIV Spin Decimal] / 1440$

**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.