

# 2020 MAST Race Results - Race 5

## Division Results

Race Course: Alternate Triangle starting at MAST Mark

Course Conditions: SE 12 -14 Waves 2 -3

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	Snowballs Chance	1	126	114	19:12:47	18:31:00	0:41:47	1.08434	0:45:18	Y	4.53	1.05	0:01:03		00:00	0:46:21	0.75	-9	105
3rd - 6:30	Antonia	1	126	130	18:31:00	18:31:00	0:00:00	1.05882	0:00:00		0.00	0.00	0:00:00	CB	00:00	0:00:00	1	0	130
3rd - 6:30	Berserkir	1	0	0	19:05:47	18:31:00	0:34:47	1.30909	0:45:32	Y	4.55	1.05	0:01:03		00:00	0:46:35	2	-6	-6
3rd - 6:30	Sabotage	1	69	57	19:11:52	18:31:00	0:40:52	1.18616	0:48:28	N	4.85	1.12	0:00:00		00:00	0:48:28	3	-3	54
3rd - 6:30	Silvergirll	1	108	102	19:15:00	18:31:00	0:44:00	1.10429	0:48:35	N	4.86	1.12	0:00:00		00:00	0:48:35	4	0	102
3rd - 6:30	Bacchus	1	126	126	19:16:47	18:31:00	0:45:47	1.06509	0:48:46	N	4.88	1.13	0:00:00		00:00	0:48:46	5	2	128
3rd - 6:30	Wanderer	1	108	114	19:16:27	18:31:00	0:45:27	1.08434	0:49:17	N	4.93	1.14	0:00:00		00:00	0:49:17	6	2	116
3rd - 6:30	Rogue	1	51	49	19:11:07	18:31:00	0:40:07	1.20200	0:48:13	Y	4.82	1.11	0:01:07		00:00	0:49:20	7	2	51
3rd - 6:30	Eclipse	1	126	121	19:16:05	18:31:00	0:45:05	1.07303	0:48:23	Y	4.84	1.12	0:01:07		00:00	0:49:30	8	2	123
3rd - 6:30	Austral	1	120	124	19:17:27	18:31:00	0:46:27	1.06825	0:49:37	N	4.96	1.15	0:00:00		00:00	0:49:37	9	2	126
3rd - 6:30	The 19th Hole	1	75	81	19:15:19	18:31:00	0:44:19	1.14105	0:50:34	N	5.06	1.17	0:00:00		00:00	0:50:34	10	2	83
3rd - 6:30	Bandito	1	108	114	19:18:10	18:31:00	0:47:10	1.08434	0:51:09	N	5.11	1.18	0:00:00		00:00	0:51:09	11	2	116
3rd - 6:30	Vela	1	90	96	19:21:58	18:31:00	0:50:58	1.11455	0:56:48	N	5.68	1.31	0:00:00		00:00	0:56:48	12	2	98
3rd - 6:30	Skelday	1	102	108	19:24:49	18:31:00	0:53:49	1.09422	0:58:53	Y	5.89	1.36	0:01:22		00:00	1:00:15	13	2	110
3rd - 6:30	Anafi	1	114	105	23:00:00	18:31:00	4:29:00	1.09924	4:55:42		29.57	6.82	0:00:00	DNC	00:00	4:55:42	17	0	105
3rd - 6:30	Blue Pearl	1	93	99	23:00:00	18:31:00	4:29:00	1.10940	4:58:26		29.84	6.89	0:06:53	DNC	00:00	5:05:19	17	0	99
3rd - 6:30	Kristin Marie	1	117	117	23:00:00	18:31:00	4:29:00	1.07946	4:50:22		29.04	6.70	0:00:00	DNC	00:00	4:50:22	17	0	117
2nd - 6:25	Cattywampus	2	132	132	19:10:02	18:26:00	0:44:02	1.05572	0:46:29	N	4.65	1.07	0:00:00		00:00	0:46:29	0.75	-9	123
2nd - 6:25	Usual Suspects/ Cavallino	2	153	144	19:11:34	18:26:00	0:45:34	1.03746	0:47:16	N	4.73	1.09	0:00:00		00:00	0:47:16	2	-6	138
2nd - 6:25	Nautical Sun	2	144	123	19:10:42	18:26:00	0:44:42	1.06984	0:47:49	N	4.78	1.10	0:00:00		00:00	0:47:49	3	-3	120
2nd - 6:25	Amok	2	153	154	19:12:29	18:26:00	0:46:29	1.02273	0:47:32	Y	4.75	1.10	0:01:06		00:00	0:48:38	4	0	154
2nd - 6:25	Firewater	2	159	161	19:16:21	18:26:00	0:50:21	1.01266	0:50:59	N	5.10	1.18	0:00:00		00:00	0:50:59	5	2	163
2nd - 6:25	Rum Line	2	132	134	19:14:48	18:26:00	0:48:48	1.05263	0:51:22	N	5.14	1.19	0:00:00		00:00	0:51:22	6	2	136
2nd - 6:25	Athens	2	147	151	19:17:11	18:26:00	0:51:11	1.02710	0:52:34	N	5.26	0.00	0:00:00		00:00	0:52:34	7	0	151
2nd - 6:25	Wild Goose	2	138	139	19:19:44	18:26:00	0:53:44	1.04499	0:56:09	N	5.62	1.30	0:00:00		00:00	0:56:09	8	2	141
2nd - 6:25	Tibateau	2	141	132	19:19:49	18:26:00	0:53:49	1.05572	0:56:49	N	5.68	1.31	0:00:00		00:00	0:56:49	9	2	134
2nd - 6:25	Caravel	2	159	154	23:00:00	18:26:00	4:34:00	1.02273	4:40:14		28.02	6.47	0:06:28	DNC	00:00	4:46:42	13	0	154
2nd - 6:25	Footprints	2	156	160	23:00:00	18:26:00	4:34:00	1.01408	4:37:52		27.79	6.41	0:06:25	DNC	00:00	4:44:16	13	0	160
2nd - 6:25	Mirasol	2	141	141	23:00:00	18:26:00	4:34:00	1.04197	4:45:30		28.55	6.59	0:06:35	DNC	00:00	4:52:05	13	0	141
2nd - 6:25	SOGO	2	132	132	23:00:00	18:26:00	4:34:00	1.05572	4:49:16		28.93	6.68	0:06:41	DNC	00:00	4:55:57	13	0	132
1st - 6:20	Borealis	3	168	159	19:05:32	18:21:00	0:44:32	1.01551	0:45:13	Y	4.52	1.04	0:01:03		00:00	0:46:16	0.75	-9	150
1st - 6:20	Aequitas	3	165	166	19:07:12	18:21:00	0:46:12	1.00559	0:46:27	N	4.65	1.07	0:00:00		00:00	0:46:27	2	-6	160
1st - 6:20	Yeah Buoy	3	192	188	19:08:54	18:21:00	0:47:54	0.97561	0:46:44	N	4.67	1.08	0:00:00		00:00	0:46:44	3	-3	185
1st - 6:20	Wild Card	3	168	158	19:08:22	18:21:00	0:47:22	1.01695	0:48:10	Y	4.82	1.11	0:01:07		00:00	0:49:17	4	0	158
1st - 6:20	Lady Ayr	3	162	168	19:10:12	18:21:00	0:49:12	1.00279	0:49:20	N	4.93	1.14	0:00:00		00:00	0:49:20	5	2	170
1st - 6:20	BeBop	3	175	171	19:13:34	18:21:00	0:52:34	0.99861	0:52:30	N	5.25	1.21	0:00:00		00:00	0:52:30	6	2	173
1st - 6:20	Stimulus	3	279	274	19:22:12	18:21:00	1:01:12	0.87379	0:53:29	N	5.35	1.23	0:00:00		00:00	0:53:29	7	2	276
1st - 6:20	Sloop City	3	234	233	19:19:27	18:21:00	0:58:27	0.91954	0:53:45	N	5.37	1.24	0:00:00		00:00	0:53:45	8	2	235
1st - 6:20	Raido	3	216	222	19:19:19	18:21:00	0:58:19	0.93264	0:54:23	N	5.44	1.26	0:00:00		00:00	0:54:23	9	2	224
1st - 6:20	Juniper	3	189	193	19:17:37	18:21:00	0:56:37	0.96904	0:54:52	N	5.49	1.27	0:00:00		00:00	0:54:52	10	2	195
1st - 6:20	Jamboree	3	255	249	19:22:52	18:21:00	1:01:52	0.90113	0:55:45	N	5.57	1.29	0:00:00		00:00	0:55:45	11	2	251
1st - 6:20	Anticipation	3	177	177	23:00:00	18:21:00	4:39:00	0.99037	4:36:19		27.63	6.38	0:00:00	DNC	00:00	4:36:19	15	0	177
1st - 6:20	Carina	3	165	167	23:00:00	18:21:00	4:39:00	1.00418	4:40:10		28.02	6.47	0:06:28	DNC	00:00	4:46:38	15	0	167
1st - 6:20	Cool Change	3	177	177	23:00:00	18:21:00	4:39:00	0.99037	4:36:19		27.63	6.38	0:06:23	DNC	00:00	4:42:41	15	0	177
1st - 6:20	Minnehaha	3	252	252	23:00:00	18:21:00	4:39:00	0.89776	4:10:28		25.05	5.78	0:05:47	DNC	00:00	4:16:15	15	0	252

# 2020 MAST Race Results - Race 5

## Fleet Results

Race Course: Alternate Triangle starting at MAST Mark

Course Conditions: SE 12 -14 Waves 2 -3

33 boats racing

Boat2	Fleet Pre Race PRRH	Fleet Elapsed Time	Fleet Correction Factor	Fleet PRRF Time	Fleet 10 Minute	Fleet Spin Decimal	Fleet Spin Correction	Code2	Penalty2	Fleet Corrected Time	Fleet Points	Fleet PRRF Adjust	Fleet New PRRF
Snowballs Chance	117	0:41:47	1.07946	0:45:06	12:14:54	0:59:01	0:01:02		0:00:00	0:46:09	0.75	-18	99
Antonia	134	0:00:00	1.05263	0:00:00	0:00:00	0.00	0:00:00	CB	0:00:00	0:00:00	1	0	134
Cattywampus	136	0:44:02	1.04956	0:46:13	14:55:04	1:35:59	0:00:00		0:00:00	0:46:13	2	-15	121
Yeah Buoy	193	0:47:54	0.96904	0:46:25	15:24:05	1:42:41	0:00:00		0:00:00	0:46:25	3	-12	181
Berserkir	0	0:34:47	1.30909	0:45:32	13:16:58	1:13:21	0:01:03		0:00:00	0:46:35	4	-9	-9
Aequitas	164	0:46:12	1.00840	0:46:35	15:48:42	1:48:22	0:00:00		0:00:00	0:46:35	5	-6	158
Borealis	154	0:44:32	1.02273	0:45:33	13:18:33	1:13:43	0:01:03		0:00:00	0:46:36	6	-3	151
Usual Suspects/ Cavallino	144	0:45:34	1.03746	0:47:16	17:27:25	2:11:09	0:00:00		0:00:00	0:47:16	7	0	144
Nautical Sun	117	0:44:42	1.07946	0:48:15	19:48:16	2:43:40	0:00:00		0:00:00	0:48:15	8	0	117
Silvergirl	106	0:44:00	1.09756	0:48:18	19:54:09	2:45:01	0:00:00		0:00:00	0:48:18	9	0	106
Amok	158	0:46:29	1.01695	0:47:16	17:27:03	2:11:04	0:01:05		0:00:00	0:48:22	10	4	162
Rogue	59	0:40:07	1.18227	0:47:26	17:49:43	2:16:18	0:01:06		0:00:00	0:48:31	11	4	63
Sabotage	54	0:40:52	1.19205	0:48:43	20:55:00	2:59:04	0:00:00		0:00:00	0:48:43	12	4	58
Bacchus	126	0:45:47	1.06509	0:48:46	21:01:55	3:00:40	0:00:00		0:00:00	0:48:46	13	4	130
Wanderer	120	0:45:27	1.07463	0:48:51	21:13:13	3:03:16	0:00:00		0:00:00	0:48:51	14	4	124
Lady Ayr	174	0:49:12	0.99448	0:48:56	21:25:39	3:06:08	0:00:00		0:00:00	0:48:56	15	4	178
Austral	132	0:46:27	1.05572	0:49:02	21:41:29	3:09:48	0:00:00		0:00:00	0:49:02	16	4	136
Wild Card	161	0:47:22	1.01266	0:47:58	19:07:08	2:34:10	0:01:06		0:00:00	0:49:04	17	4	165
Eclipse	119	0:45:05	1.07623	0:48:31	20:26:54	2:52:35	0:01:07		0:00:00	0:49:38	18	4	123
The 19th Hole	87	0:44:19	1.13030	0:50:05	0:13:07	3:44:47	0:00:00		0:00:00	0:50:05	19	4	91
Firewater	167	0:50:21	1.00418	0:50:34	1:20:44	4:00:24	0:00:00		0:00:00	0:50:34	20	4	171
Bandito	120	0:47:10	1.07463	0:50:41	1:38:52	4:04:35	0:00:00		0:00:00	0:50:41	21	4	124
Rum Line	140	0:48:48	1.04348	0:50:55	2:12:44	4:12:24	0:00:00		0:00:00	0:50:55	22	4	144
Athena	155	0:51:11	1.02128	0:52:16	5:27:13	4:57:17	0:00:00		0:00:00	0:52:16	23	0	155
BeBop	167	0:52:34	1.00418	0:52:47	6:41:16	5:14:22	0:00:00		0:00:00	0:52:47	24	4	171
Sloop City	242	0:58:27	0.90909	0:53:08	7:31:38	5:26:00	0:00:00		0:00:00	0:53:08	25	4	246
Stimulus	275	1:01:12	0.87273	0:53:25	8:11:10	5:35:07	0:00:00		0:00:00	0:53:25	26	4	279
Raido	228	0:58:19	0.92545	0:53:58	9:31:33	5:53:41	0:00:00		0:00:00	0:53:58	27	4	232
Juniper	201	0:56:37	0.95872	0:54:17	10:16:16	6:04:00	0:00:00		0:00:00	0:54:17	28	4	205
Wild Goose	150	0:53:44	1.02857	0:55:16	12:38:40	6:36:52	0:00:00		0:00:00	0:55:16	29	4	154
Jamboree	255	1:01:52	0.89441	0:55:20	12:48:07	6:39:03	0:00:00		0:00:00	0:55:20	30	4	259
Tibateau	145	0:53:49	1.03597	0:55:45	13:48:22	6:52:57	0:00:00		0:00:00	0:55:45	31	4	149
Vela	102	0:50:58	1.10429	0:56:17	15:04:38	7:10:33	0:00:00		0:00:00	0:56:17	32	4	106
Skelday	114	0:53:49	1.08434	0:58:21	20:03:11	8:19:27	0:01:21		0:00:00	0:59:42	33	4	118
Anafi	114	4:29:00	1.08434	4:51:41	4:02:53	17:34:16	0:00:00	DNC	0:00:00	4:51:41	45	0	114
Anticipation	177	4:39:00	0.99037	4:36:19	15:09:10	9:03:20	0:00:00	DNC	0:00:00	4:36:19	45	0	177
Blue Pearl	101	4:29:00	1.10599	4:57:31	18:01:40	20:47:51	0:00:00	DNC	0:00:00	4:57:31	45	0	101
Caravel	149	4:34:00	1.03004	4:42:14	5:21:22	12:20:02	0:00:00	DNC	0:00:00	4:42:14	45	0	149
Carina	169	4:39:00	1.00139	4:39:23	22:31:53	10:45:31	0:00:00	DNC	0:00:00	4:39:23	45	0	169
Cool Change	177	4:39:00	0.99037	4:36:19	15:09:10	9:03:20	0:00:00	DNC	0:00:00	4:36:19	45	0	177
Footprints	164	4:34:00	1.00840	4:36:18	15:07:34	9:02:58	0:00:00	DNC	0:00:00	4:36:18	45	0	164
Kristin Marie	117	4:29:00	1.07946	4:50:22	0:53:58	16:50:40	0:00:00	DNC	0:00:00	4:50:22	45	0	117
Minnehaha	252	4:39:00	0.89776	4:10:28	1:08:14	18:44:33	0:00:00	DNC	0:00:00	4:10:28	45	0	252
Mirasol	141	4:34:00	1.04197	4:45:30	13:11:54	14:08:38	0:00:00	DNC	0:00:00	4:45:30	45	0	141
SOGO	132	4:34:00	1.05572	4:49:16	22:14:26	16:13:51	0:00:00	DNC	0:00:00	4:49:16	45	0	132

# 2020 MAST Race Results - Race 5

## 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.