

# 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 competing in the division fleet. "A" is calculated each week based on the adjusted PHRF of the boats competing.

**Code:** CB, DNF, DNC appear here

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

**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 who do NOT declare a spinnaker will have 13.848 sec. for each 10 minutes sailed deducted from their time. 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 adjustment 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.

Start	Boat Name	DIV	HCP	DIV Pre-race PHRF	Spin	Code	Penalty	Finish Time	Start Time	Elapsed Time	DIV Correction Factor	DIV PHRF Time	DIV 10 minutes	DIV Spin Decimal	DIV Spin Correction	DIV Corrected Time	DIV Points	DIV PHRF Adjust	Div New PHRF
6:30	Anafi	1	117	117	N			19:41:13	18:30:00	1:11:13	0.9685157	1:08:58	6.90	1.59	0.0011055	1:07:23	1	-9	108
6:30	Sabotage	1	69	69	N			19:37:44	18:30:00	1:07:44	1.0436187	1:10:41	7.07	1.63	0.001133	1:09:03	2	-6	63
6:30	Perfect 10	1	84	84	N			19:43:36	18:30:00	1:13:36	1.0189274	1:15:00	7.50	1.73	0.001202	1:13:16	3	-3	81
6:30	Silvergirl	1	108	108	N			19:50:30	18:30:00	1:20:30	0.9817629	1:19:02	7.90	1.82	0.0012667	1:17:12	4	0	108
6:30	Antonia	1	126	126	N			19:56:49	18:30:00	1:26:49	0.9556213	1:22:58	8.30	1.91	0.0013297	1:21:03	5	2	128
6:30	Blue Pearl	1	96	96	N			19:53:53	18:30:00	1:23:53	1	1:23:53	8.39	1.94	0.0013445	1:21:57	6	2	98
6:30	The 10th Hole	1	75	75	N			19:58:56	18:30:00	1:28:56	1.0336	1:31:55	9.19	2.12	0.0014733	1:29:48	7	2	77

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

