

## Time on Time vs. Time on Distance Scoring

### Introduction:

Albatross Yacht Club made the decision to utilize PHRF Time on Time scoring for the 2008 sailing season, instead of the more traditional PHRF Time on Distance scoring method. This change was made on a trial basis. Now that the season has concluded, we can begin to analyze the results to determine if TOT scoring offers any significant advantage.

### Background:

Time on Time scoring has been used with increasing frequency on Lake St. Clair, and has been used for several years in other PHRF districts. The scoring system utilizes the existing PHRF rating to develop a "Time Correction Factor", which is used to calculate the corrected time. Hence the corrected time is based on the actual time spent sailing a race, as opposed to the distance of the race.

The main proposed benefit of TOT scoring is a leveling of the playing field, particularly in fleets with a large range of PHRF ratings. Due to the declining number of boats participating in racing on Anchor Bay, and in particular due to a decline in the number of boats carrying PHRF ratings in the range of 100 and 160, as well as 200 and above, the decision was made to reduce the number of spinnaker fleets from four to two. The result of this is that the fleets have much wider range of PHRF ratings that has traditionally been used. The thought was that TOT would make for closer racing.

### Results:

I have re-scored the results from the (13) Tuesday Night races from the 2008 season using Time on Distance Scoring, and compared the results using Time on Time scoring. Looking at the season overalls using each scoring method, it can be seen that the season standings were affected, with several boats in PHRF B, and JAM changing positions. The changes in season standings are affected minimally in PHRF A, and are unaffected in ASYM.

I also calculated the delta between the corrected times between the first and last place boats for each fleet in each race. Theoretically, the delta should be lower using TOT scoring than TOD. In the majority of the races/fleets, this holds true, although the differences are typically fairly small.

It should be noted that the 2008 season was blessed with fairly consistent (moderate) wind conditions. Most experts agree that PHRF TOD is most fair when applied in moderate wind conditions, so it is not a complete surprise to see the results using the two scoring methods being fairly close.

### Conclusion:

Based on the available data, it is difficult to conclude whether the change to Time on Time was beneficial or not. While the spread of corrected times is indeed reduced, making for tighter racing, the affect was minimal based on the 2008 seasons races.

Several racers have commented that they prefer the TOD scoring. Some feel that the TOT system unfairly benefits small boats, other have indicated the opposite. TOD does have the benefit of being easier for each boat to quickly/simple estimate where they "corrected out" to in their fleet, prior to the official results being posted.

In the long run, I believe that it will take another season (or two) to better determine whether TOT scoring offers any significant benefit.

Chris Delling, 2008 Race Chairman & Rear Commodore

## Albatross Yacht Club 2008 Season Overalls - Time-on-Time Scoring

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	<u>DvRnk</u>	<u>Boat Name</u>	<u>Dv Pts</u>	<u>1</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	
<b>ASYM</b>	1	Dog Dayz	13.00	1	(3)	(3)	3	1	(4)	1	1	3	(4)	1	1	1	
	2	Sea Quell	17.00	2	2	1	(4)	(3)	2	3	2	1	2	2	(8c)	(8c)	
	3	Flying Cloud	20.00	3	(6s)	(4)	2	(4)	3	2	(4)	2	1	3	2	2	
	4	All The Time	37.00	(8c)	(8c)	(8c)	5	2	5	4	3	4	5	4	5f	(8c)	
<b>JAM</b>	1	Audacious	27.00	3	2	(5)	3	(5)	(6)	5	(12c)	5	1	4	1	3	
	2	Annie Mayme	29.00	(12c)	(12c)	(12c)	6	1	3	4	2	3	5	3	(12c)	2	
	3	Mischief	30.00	2	4	3	4	3	(5)	2	(12c)	4	(6)	(12c)	3	5	
	4	Therapy	34.00	1	(12c)	4	5	(6)	1	3	3	6	(7)	5	6	(7)	
	5	Moonshadow III	42.00	(12c)	1	1	(12c)	(7)	7	7	7	6f	7	3	(12c)	4	6
	6	39er	45.00	(12c)	(12c)	(12c)	7	2	8	6	6f	(9)	8	2	5	1	
<b>PHRF A</b>	1	Mr. Bills Wild Ride	9.00	(1)	1	(17c)	1	1	1	(17c)	1	1	1	1	1	(2)	
	2	Venom	22.00	2	2	1	2	(6)	3	3	(6)	2	2	(5)	5	(7)	
	3	Sidewinder	36.50	(17c)	5	(17c)	5	(8)	5	1	3	3	6	6	2	(17c)	
	4	Alliance	37.50	3	(7)	2	4	4	4	5	(11)	(7)	3	(9)	6	6	
	5	Polarity	42.50	5	6	(17c)	(8)	(9)	5	7	4	4	4	4	(12)	3	
	6	Wavelength	50.00	(17c)	8	3	7	3	7	(10)	8	(11)	7	3	(10)	4	
	7	Snipe	58.00	4	4	(17c)	(17c)	(17c)	(17c)	2	7	12	9	2	8	10	
	8	Absolute	74.00	(17c)	(17c)	4	6	5	10	8	10	(17c)	(11)	11	9	11	
	9	Tribute	75.00	6	9	(17c)	9	7	8	9	9	(10)	10	(17c)	(13)	8	
<b>PHRF B</b>	1	Desire	14.00	(4)	(3)	1	(2)	2	1	2	1	2	2	2	(4)	1	
	2	Time Bandit	31.00	1	2	3	5	5	2	3	(8)	(7)	(11c)	4	(6)	6	
	3	Overdraft	32.00	5	(11c)	4	3	1	3	1	6	5	4	(11c)	(7)	(8)	
	4	Lady Godiva	32.00	2	4	2	(11c)	3	4	5	5	4	3	(6)	(8)	(7)	
	5	Otis B. Driftwood	32.50	3	1	5	6	4	(11c)	4	2	3	(11c)	(7)	4	(11c)	
	6	Island Moon	35.00	(6)	(11c)	(7)	4	(6)	6	6	4	6	5	1	1	2	
	7	Breakaway	60.00	7	6s	6	7	(9)	5	(11c)	9	8	7	(11c)	(11c)	5	

c = DNC

s = DNS

f = DNF

t = TLE

b = BFD

( ) = Thrown out

a = average

% = Percent Penalty

q = DSQ, OCS, RAF

DNQ = Not Qualified

Number of Boats in Series 26

**Questions? Contact: Chris Delling**

## Albatross Yacht Club 2008 Season Overalls - *Time-on-Distance* Scoring

Printed On: 2-Dec-08 15:50:30

	<u>DvRnk</u>	<u>Boat Name</u>	<u>Dv Pts</u>	<u>1</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>
<b>ASYM</b>	1	Dog Dayz	13.00	1	(3)	3	(4)	1	(4)	1	1	3	(4)	1	1	1
	2	Sea Quell	16.00	2	2	1	(3)	(4)	1	3	2	1	2	2	(8c)	(8c)
	3	Flying Cloud	20.00	(3)	(6s)	(4)	2	3	3	2	(4)	2	1	3	2	2
	4	All The Time	37.00	(8c)	(8c)	(8c)	5	2	5	4	3	4	5	4	5f	(8c)
<b>JAM</b>	1	Audacious	23.00	3	2	(5)	3	(5)	(6)	4	(12c)	5	1	2	1	2
	2	Mischief	28.00	2	4	3	4	2	(5)	2	(12c)	4	(6)	(12c)	3	4
	3	Therapy	30.00	1	(12c)	4	5	(6)	1	3	2	6	(7)	3	5	(7)
	4	Annie Mayme	33.00	(12c)	(12c)	(12c)	6	1	3	5	3	3	4	5	(12c)	3
	5	Moonshadow III	42.00	(12c)	1	1	(12c)	(7)	7	7	6f	7	3	(12c)	4	6
	6	39er	49.00	(12c)	(12c)	(12c)	7	3	8	6	6f	(9)	8	4	6	1
<b>PHRF A</b>	1	Mr. Bills Wild Ride	9.00	(1)	(1)	(17c)	1	1	1	(17c)	1	1	1	1	1	1
	2	Venom	21.00	2	2	1	2	(6)	3	3	(7)	2	2	4	(5)	(6)
	3	Sidewinder	37.50	(17c)	5	(17c)	5	(8)	5	1	4	3	7	5	2	(17c)
	4	Alliance	39.00	3	(7)	2	4	4	4	5	(11)	7	3	(9)	(9)	7
	5	Polarity	43.00	5	6	(17c)	(8)	(9)	6	7	5	4	4	3	(12)	3
	6	Snipe	53.00	4	4	(17c)	(17c)	(17c)	(17c)	2	6	11	9	2	6	9
	7	Wavelength	54.00	(17c)	8	3	7	3	7	(10)	8	(12)	6	7	(10)	5
	8	Absolute	71.00	(17c)	(17c)	4	6	5	10	8	9	(17c)	(11)	11	7	11
	9	Tribute	78.00	6	9	(17c)	9	7	8	9	(10)	10	10	(17c)	(13)	10
<b>PHRF B</b>	1	Desire	13.00	(6)	(3)	1	(2)	2	1	2	1	2	2	1	(3)	1
	2	Time Bandit	31.00	1	2	3	5	5	2	3	(7)	(6)	(11c)	4	(6)	6
	3	Otis B. Driftwood	31.00	2	1	4	6	4	(11c)	4	2	3	(11c)	(7)	5	(11c)
	4	Overdraft	32.00	5	(11c)	5	3	1	3	1	5	5	4	(11c)	(8)	(8)
	5	Lady Godiva	32.00	3	4	2	(11c)	3	4	(5)	4	4	3	5	(7)	(7)
	6	Island Moon	38.00	4	(11c)	(7)	4	(7)	6	6	6	(7)	5	2	2	3
	7	Breakaway	60.00	7	6s	6	7	9	5	(11c)	(10)	8	7	(11c)	(11c)	5

c = DNC

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Number of Boats in Series 26

( ) = Thrown out

a = average

% = Percent Penalty

q = DSQ, OCS, RAF

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**Questions? Contact: Chris Delling**

# 2008 SPRING RACE SERIES

## TIME-ON-TIME SCORING

	Race #1		Race #2		Race #3		Race #4		Race #5		Race #6	
<b>ASYM</b>	Dog Dayz	00:53:35	Phoenix III	00:54:47	Sea Quell	00:51:52	Phoenix III	00:50:37	Dog Dayz	00:56:51	Phoenix III	00:50:42
	Sea Quell	00:56:47	Sea Quell	00:56:58	Phoenix III	00:52:54	Flying Cloud	00:50:39	All The Time	00:57:45	Sea Quell	00:51:02
	Flying Cloud	00:57:29	Dog Dayz	01:02:42	Dog Dayz	00:53:26	Dog Dayz	00:52:04	Sea Quell	01:00:13	Flying Cloud	00:51:08
	Xcessive	01:05:32	Xcessive	01:12:52	Flying Cloud	00:56:44	Sea Quell	00:52:16	Flying Cloud	01:00:24	Dog Dayz	00:51:55
	Sorority	01:09:16					All The Time	00:54:07	Phoenix III	01:00:46	All The Time	00:55:27
							Sorority	00:56:39			Xcessive	01:01:07
							Xcessive	01:01:35				
	<i>Delta</i>	<i>00:15:41</i>	<i>Delta</i>	<i>00:18:05</i>	<i>Delta</i>	<i>00:04:52</i>	<i>Delta</i>	<i>00:10:58</i>	<i>Delta</i>	<i>00:03:55</i>	<i>Delta</i>	<i>00:10:25</i>
<b>JAM</b>	Therapy	00:59:28	Moonshadow III	00:59:10	Moonshadow III	00:54:23	Aurora	00:51:24	Annie Mayme	00:58:43	Therapy	00:55:09
	Mischief	01:00:02	Audacious	00:59:14	Aurora	00:56:11	Melange	00:52:49	39er	00:59:53	Melange	00:55:56
	Audacious	01:01:45	Melange	00:59:36	Mischief	00:58:55	Audacious	00:53:50	Mischief	01:00:08	Annie Mayme	00:56:11
	Lattitude Adjust.	01:10:04	Mischief	01:00:31	Therapy	00:58:57	Mischief	00:54:37	Melange	01:00:22	Aurora	00:56:41
	Wandering Star	01:11:57			Audacious	00:59:17	Therapy	00:54:39	Audacious	01:01:40	Mischief	00:57:43
							Annie Mayme	00:59:41	Therapy	01:02:18	Audacious	00:57:52
							39er	01:00:54	Moonshadow III	01:02:45	Moonshadow III	00:58:28
							Wandering Star	01:01:46			39er	00:59:10
	<i>Delta</i>	<i>00:12:29</i>	<i>Delta</i>	<i>00:01:21</i>	<i>Delta</i>	<i>00:04:54</i>	<i>Delta</i>	<i>00:10:22</i>	<i>Delta</i>	<i>00:04:02</i>	<i>Delta</i>	<i>00:04:01</i>
<b>PHRFA</b>	Mr. Bills Wild Ride	00:51:55	Mr. Bills Wild Ride	00:53:03	Venom	00:51:00	Mr. Bills Wild Ride	00:48:01	Mr. Bills Wild Ride	00:53:48	Mr. Bills Wild Ride	00:51:08
	Venom	00:53:44	Venom	00:55:04	Alliance	00:52:10	Venom	00:48:38	Night Train	00:54:33	Night Train	00:51:22
	Alliance	00:54:22	Night Train	00:55:26	Wavelength	00:53:06	Night Train	00:49:16	Wavelength	00:55:17	Venom	00:51:30
	Snipe	00:55:42	Snipe	00:57:50	Absolute	00:53:51	Alliance	00:50:21	Alliance	00:55:22	Alliance	00:52:45
	Polarity	00:55:53	Sidewinder	00:58:02			Sidewinder	00:51:00	Absolute	00:55:40	Sidewinder	00:52:52
	Tribute	00:57:02	Polarity	00:58:49			Absolute	00:53:26	Venom	00:56:05	Polarity	00:52:52
	PDQ Express	00:57:41	Alliance	01:00:29			Wavelength	00:53:55	Tribute	00:56:19	Wavelength	00:55:46
			Wavelength	01:00:55			Polarity	00:54:06	Sidewinder	00:56:25	Tribute	00:57:57
			Tribute	01:07:05			Tribute	00:55:39	Polarity	00:57:29	Cross Check	01:00:21
						Cross Check	00:59:05			Absolute	01:00:49	
	<i>Delta</i>	<i>00:05:46</i>	<i>Delta</i>	<i>00:14:02</i>	<i>Delta</i>	<i>00:02:51</i>	<i>Delta</i>	<i>00:11:04</i>	<i>Delta</i>	<i>00:03:41</i>	<i>Delta</i>	<i>00:09:41</i>
<b>PHRFB</b>	Time Bandit	00:53:24	Otis B. Driftwood	00:55:38	Desire	00:52:19	Zig Zag	00:48:39	Overdraft	00:53:11	Desire	00:52:48
	Lady Godiva	00:53:50	Time Bandit	00:58:28	Lady Godiva	00:53:07	Desire	00:51:18	Desire	00:53:15	Time Bandit	00:52:57
	Otis B. Driftwood	00:53:56	Desire	00:59:25	Time Bandit	00:53:18	Overdraft	00:51:38	Lady Godiva	00:53:21	Overdraft	00:53:19
	Desire	00:54:17	Lady Godiva	01:02:59	Overdraft	00:53:52	Island Moon	00:52:34	Otis B. Driftwood	00:53:34	Lady Godiva	00:56:21
	Overdraft	00:54:20			Otis B. Driftwood	00:53:54	Time Bandit	00:52:55	Time Bandit	00:55:54	Breakaway	00:57:02
	Island Moon	00:54:25			Breakaway	00:56:38	Otis B. Driftwood	00:53:35	Zig Zag	00:58:18	Island Moon	01:01:49
	Breakaway	00:57:53			Island Moon	01:04:16	Breakaway	00:56:13	Island Moon	00:58:18		
							Wind Tensor	00:57:52	Wind Tensor	00:58:31		
									Breakaway	01:01:44		
		<i>Delta</i>	<i>00:04:29</i>	<i>Delta</i>	<i>00:07:21</i>	<i>Delta</i>	<i>00:11:57</i>	<i>Delta</i>	<i>00:09:13</i>	<i>Delta</i>	<i>00:08:33</i>	<i>Delta</i>

# 2008 SPRING RACE SERIES

## TIME-ON-DISTANCE SCORING

	Race #1	Race #2	Race #3	Race #4	Race #5	Race #6
<b>ASYM</b>	Dog Dayz 00:44:50	Phoenix III 00:44:35	Sea Quell 00:42:40	Phoenix III 00:41:51	Dog Dayz 00:48:06	Sea Quell 00:41:45
	Sea Quell 00:48:01	Sea Quell 00:45:58	Phoenix III 00:44:09	Flying Cloud 00:41:58	All The Time 00:49:10	Phoenix III 00:41:56
	Flying Cloud 00:48:44	Dog Dayz 00:52:32	Dog Dayz 00:44:41	Sea Quell 00:43:06	Flying Cloud 00:51:37	Flying Cloud 00:42:27
	Xcessive 00:56:08	Xcessive 01:02:11	Flying Cloud 00:47:59	Dog Dayz 00:43:19	Sea Quell 00:51:46	Dog Dayz 00:43:10
	Sorority 01:01:32			All The Time 00:44:48	Phoenix III 00:52:02	All The Time 00:46:24
				Sorority 00:47:53		Xcessive 00:52:03
				Xcessive 00:52:28		
	<i>Delta</i> 00:16:42	<i>Delta</i> 00:17:36	<i>Delta</i> 00:05:19	<i>Delta</i> 00:10:37	<i>Delta</i> 00:03:56	<i>Delta</i> 00:10:18
<b>JAM</b>	Therapy 00:50:48	Moonshadow III 00:48:22	Moonshadow III 00:45:24	Aurora 00:42:03	Annie Mayme 00:50:19	Therapy 00:46:20
	Mischief 00:51:25	Audacious 00:48:47	Aurora 00:47:21	Melange 00:43:50	Mischief 00:51:31	Melange 00:47:08
	Audacious 00:53:12	Melange 00:49:03	Mischief 00:50:15	Audacious 00:44:58	39er 00:51:42	Annie Mayme 00:47:19
	Lattitude Adjust. 01:02:45	Mischief 00:50:07	Therapy 00:50:16	Mischief 00:45:47	Melange 00:51:50	Aurora 00:47:55
	Wandering Star 01:04:24		Audacious 00:50:38	Therapy 00:45:49	Audacious 00:53:07	Mischief 00:49:00
				Annie Mayme 00:51:28	Therapy 00:53:44	Audacious 00:49:10
				39er 00:52:55	Moonshadow III 00:54:32	Moonshadow III 00:49:51
				Wandering Star 00:53:24		39er 00:50:51
	<i>Delta</i> 00:13:36	<i>Delta</i> 00:01:45	<i>Delta</i> 00:05:14	<i>Delta</i> 00:11:21	<i>Delta</i> 00:04:13	<i>Delta</i> 00:04:31
<b>PHRFA</b>	Mr. Bills Wild Ride 00:43:23	Mr. Bills Wild Ride 00:43:27	Venom 00:42:27	Mr. Bills Wild Ride 00:39:39	Mr. Bills Wild Ride 00:45:11	Mr. Bills Wild Ride 00:42:38
	Venom 00:45:06	Venom 00:45:16	Alliance 00:43:06	Venom 00:40:10	Night Train 00:45:54	Night Train 00:42:51
	Alliance 00:45:27	Night Train 00:45:44	Wavelength 00:44:06	Night Train 00:40:51	Wavelength 00:46:26	Venom 00:42:56
	Snipe 00:47:00	Snipe 00:48:02	Absolute 00:45:07	Alliance 00:41:10	Alliance 00:46:31	Alliance 00:43:43
	Polarity 00:47:10	Sidewinder 00:48:04		Sidewinder 00:42:24	Absolute 00:46:55	Sidewinder 00:44:13
	Tribute 00:48:18	Polarity 00:48:52		Absolute 00:44:42	Venom 00:47:22	Polarity 00:44:14
	PDQ Express 00:48:54	Alliance 00:49:57		Wavelength 00:44:58	Tribute 00:47:32	Wavelength 00:46:56
		Wavelength 00:50:24		Polarity 00:45:26	Sidewinder 00:47:41	Tribute 00:49:16
		Tribute 00:56:59		Tribute 00:46:50	Polarity 00:48:43	Cross Check 00:51:27
				Cross Check 00:50:14		Absolute 00:52:03
	<i>Delta</i> 00:05:31	<i>Delta</i> 00:13:32	<i>Delta</i> 00:02:40	<i>Delta</i> 00:10:35	<i>Delta</i> 00:03:32	<i>Delta</i> 00:09:25
<b>PHRFB</b>	Time Bandit 00:44:15	Otis B. Driftwood 00:43:36	Desire 00:43:03	Zig Zag 00:38:58	Overdraft 00:43:55	Desire 00:43:36
	Otis B. Driftwood 00:44:39	Time Bandit 00:47:24	Lady Godiva 00:43:56	Desire 00:41:55	Desire 00:44:06	Time Bandit 00:43:44
	Lady Godiva 00:44:44	Desire 00:48:30	Time Bandit 00:44:08	Overdraft 00:42:08	Lady Godiva 00:44:11	Overdraft 00:44:04
	Island Moon 00:45:09	Lady Godiva 00:52:27	Otis B. Driftwood 00:44:37	Island Moon 00:42:55	Otis B. Driftwood 00:44:13	Lady Godiva 00:47:33
	Overdraft 00:45:13		Overdraft 00:44:42	Time Bandit 00:43:42	Time Bandit 00:47:02	Breakaway 00:48:19
	Desire 00:45:15		Breakaway 00:47:50	Otis B. Driftwood 00:44:15	Zig Zag 00:49:43	Island Moon 00:54:07
	Breakaway 00:49:20		Island Moon 00:57:05	Breakaway 00:47:20	Island Moon 00:49:51	
				Wind Tensor 00:49:14	Wind Tensor 00:49:58	
					Breakaway 00:53:56	
	<i>Delta</i> 00:05:05	<i>Delta</i> 00:08:51	<i>Delta</i> 00:14:02	<i>Delta</i> 00:10:16	<i>Delta</i> 00:10:01	<i>Delta</i> 00:10:31