

Club Champions results.

Aim: To produce a result that advantages the boat that sails consistently to an established benchmark.

Process: In three Stages.

1. To establish the performance factor from existing data that can be readily agreed to by all competitors.
2. To use a fair scoring system that considers fleet size, number of races etc.
3. To decide on the races the system applies to.

Stage 1 (Performance factor)

- There are various systems such as IOR, CBH, IRC, IMS and AI generated handicaps.
- These systems require detailed boat and sail measurement and maybe unnecessary for our kind of racing.
- We have performance data generated by our sail100 system (ECHO) which calculates the performance of each boat and crew in every race.
- There should be a way of extracting our performance factors from this information. See chart below of ECHOs from the last Twilight series.
- For discussion I have shown the Average of the three highest ECHOs and the Highest and 2nd and 3rd highest.
- Inevitable there may need to be some minor tweaking to correct any anomalies.
- An example of an anomaly could be Mach-1 in the calculations below due to being a new boat and few races.

Twilight series 2026-2026																							
	R1	R2	R5	R6	R7	R9	R10	R11	R12	R13	R14	R15	R16	R18	R19	R20	R21	R22	R23	Ave	1st	2nd	3rd
Boat	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	ECHO	3 high	ECHO	Highest	ECHO
Patrol Boat		0.862N	0.952	0.894N	0.894N	0.847	0.956	0.824	0.894	0.883N	0.787	0.866	0.846	0.796	0.839	0.818	0.793	0.936	0.895	0.953	0.956	0.952	0.936
Navigator	1.006	0.893	0.820	0.910	0.900	0.899	0.982	0.892	0.915	0.915N	0.944	0.875	0.932	0.916N	0.926	0.935	0.916	0.897	0.929	0.969	1.006	0.982	0.944
Achtung Baby						1.045	1.015	1.017	1.023N	1.023N	1.023N	1.023N	1.023N	1.023N	1.023N	1.023N	1.023N	1.023N	1.023N	1.026	1.045	1.017	1.015
Reve	0.873	0.942N	0.927	1.001	0.977	0.965N	0.932	0.858	0.920N	1.029	1.044	1.017	1.060	1.008	1.016N	1.016N	1.016N	1.016N	0.982	1.049	1.060	1.044	1.029
marri nuwi	1.002N	1.019	1.172	1.003	0.999	1.028N	0.957	0.989	0.983	0.993N	0.993N	0.983	0.990N	1.045	1.047	0.997	1.041	1.056	1.035N	1.095	1.172	1.056	1.047
Axiom	0.914	1.040	1.098	1.052	1.051N	1.049	1.067	1.059	1.057N	1.016	1.046	1.063	1.087	1.079	1.017	1.016	1.106	1.027	1.070	1.101	1.106	1.098	1.087
Mach 1	1.083N	1.083N	1.083N	1.083N	1.083N	1.083N	1.083N	1.136	1.000	1.066N	1.066N	1.084	1.072N	1.072N	1.072N	1.072N	1.072N	1.072N	1.072N	1.101	1.136	1.084	1.000
L'attitude	1.001	1.113	1.150	1.094	1.092	1.143	1.110	1.113N	1.086	1.125	1.086	1.102N	1.125	1.116	1.151	1.126N	1.130	1.114	1.130	1.150	1.151	1.150	1.143
Frisky Too	1.120N	1.120N	0.944	1.088	1.069N	1.069N	1.023	1.134	1.081N	1.081N	1.081N	1.081N	1.124	1.096N	1.096N	1.196	1.131N	0.990	1.123	1.155	1.196	1.134	1.124
Jazz Bar	1.070N	1.070N	1.178	1.120	1.112N	1.112N	1.112N	1.155	1.123	1.111	1.129	1.125	1.147	1.132N	1.106	1.104	1.062	1.025	1.137	1.163	1.178	1.155	1.147
Brand-X						1.150	1.159	1.148	1.171	1.176	1.165	1.147	1.094	0.916	1.112	1.077N	1.077N	1.145	1.173	1.174	1.176	1.173	1.171
Excentric	1.284	1.155	1.140	1.126	1.084	1.122N	1.195	1.087	1.127N	1.090	1.064	0.999	1.025	1.069	1.062	1.036	1.130	1.183	1.163	1.191	1.284	1.195	1.183
if it fits	1.071	1.179	1.245	1.159	1.128	1.165	1.132	1.137	1.144N	1.156	1.170	1.141	1.165	1.138	1.078	1.138	1.155	1.120	1.192	1.210	1.245	1.192	1.179
Yknot	1.133	1.154	1.128	1.146	1.178	1.157	1.140	1.212	1.210	1.120	1.191	1.189	1.219	1.245	1.185	1.193	1.155	1.165	0.829	1.228	1.245	1.219	1.212
Starship	1.164N	1.164N	0.970	1.109	1.196	1.041	1.035	1.241	1.200	1.151	1.156	1.231	1.026	1.285	1.205	1.189	1.130	1.169N	1.184	1.256	1.285	1.241	1.231

There is a valid argument not to use the highest as all boats at some stage due to factors beyond sailing skills strike a high ECHO similarly boats can come last for several reasons other than sailing skills, so these effects need to be eliminated.

My suggestion would be one of the following to produce the PHF (Port Hacking Factor);

1. We use the ECHO 1/5 from the highest. If five races we use the 2nd highest, if 10 races we use the 3rd highest for Twilight we use the 5th highest.
2. We average the top half of the ECHOs. This would give a handicap well within a proven range biased to the boat's best top performances.
 - a. Weekend series would generate the PHF from the SH series and use for all series to calculate the club champion.
 - b. The Twilight series would generate the PHF and be used for TWI and AFT to calculate and winner for a new trophy (yet to be determined).

This information is already available in the sail100 program. Calculations can be done with a cut and paste and an XL formula.

The resulting PHF's will be adjusted by a factor to eliminate any inflation.

These two PHF's used for the start of all new season races to eliminate the possibility of unfair starting handicaps due to poor performances in last races.

The object is to generate a performance PHF for each boat with as little intervention as possible.

Stage 2 (Scoring)

- The points in each race be a high scoring type where the points for first is equal to the number of entries. This places a higher value on coming first in a series with say 10 entries against a series with 5 entries. Points for each series totalled with the highest points overall winning.
- A low point score system gives 1 point for 1st whether there are 3 or 15 boats in a race.
- Short Ocean and Boat Harbour are mutually exclusive, so boats can get points from both series.
- Currently we have 5 HBR races and 6 SO races so there will be a bias towards the ocean series.
- If the HBR series had 6 entries and the SO had 5 entries the bias could be towards the HBR series. So be it.

Stage 3 (Races)

Suggest the results for Club Champion applies to the Short Haul, Short Ocean, Boat Harbour and Winter series. PHF from the SH series for all races?

There could be a second trophy to replace say the consistent yacht by applying the above to the Wednesday Twilight and Afternoon series

Sail #	Boat	Short Haul	Harbour	Short Ocean	Winter	Points	Place
5384	Excentric	31.5	0	21	31	83.5	1
7076	Yknot	32.5	0	19	30	81.5	2
717	L'attitude	33	4	15	29	81	3
2936	marri nuwi	30	0	21	25	76	4
777	Mach 1	27	0	14	32	73	5
186	MC Starship	21	12	0	31	64	6
110	Patrol Boat	22	15	0	26	63	7
496	Excelsior	26	8	0	28	62	8
3	Navigator	22	16	0	0	38	9
709	Reve	5	3	0	18	26	10
2	Achtung Baby	2	0	20	0	22	11

Test example only using last year's results and 2nd ECHO from each series.