

PHRF Open Fleet Class Assignments

January 20, 2016

To all PHRF sailors,

For 2016, it is the intent of the Organizing Authority to sort the PHRF Open Fleet into classes using each boat's PHRF Rating number, Displacement-to-Waterline (DISPWL) Ratio, or some combination thereof. Only the class assignments will be affected by this system; the race handicapping will continue to be standard PHRF Time-on-Distance (ToD).

The attached data table is an analysis of the PHRF fleet sorted by the SUM of each boat's PHRF Rating and her DISPWL Ratio. This sum combines these two key factors in grouping boats together and does a good job of associating boats of similar design and performance characteristics.

Sail-Area-to-Displacement (SADISP) was also considered for this analysis, but it does not group boats as consistently and clearly as DISPWL.

The goal of this exercise is to have boats of like design sailing against one another. The trade-off will be that some classes may have larger rating spreads than in years past. Keep in mind that similar ratings, alone, do not guarantee the most competitive racing.

It is difficult to know precisely how this system will work until we get a better idea of the entries. The more entries we have, the better it should work, so we are hoping it will encourage increased participation.

In the coming weeks, we will be publishing more information and soliciting feedback.

Stay tuned!

BOAT	PHRF	DISP lbs.	LWL ft.	DISPWL	PHRF + DISPWL
E Scow	57	965	28.00	19.62	77
Melges 32	15	3774	28.50	72.78	88
Fareast 28R	51	3000	28.00	61.01	112
Esse 990	54	4630	30.84	70.47	124
J/130	30	15000	38.20	120.13	150
B-32	66	4100	27.50	88.01	154
J/111	36	9370	32.71	119.52	156
Columbia 32	66	4200	27.00	95.26	161
Hobie 33	102	4200	30.50	66.08	168
Melges 24	96	1750	22.00	73.37	169
Olson 29	108	3600	27.50	77.28	185
Seascope 27	126	2535	25.92	64.99	191
J/122	33	14900	34.60	160.59	194
J/70	120	1790	20.47	93.16	213
First 40.7	60	15211	34.83	160.71	221
J/92S	99	5610	26.70	131.58	231
B/one	117	2315	20.87	113.69	231
J/92	105	5500	25.80	142.97	248
J/35	75	10500	30.00	173.61	249
X-37	69	14109	32.12	190.07	259
J/27	129	3800	23.50	130.72	260
Macgregor 25	216	2100	23.00	77.05	293
J/22 MOD	177	1790	19.00	116.50	294
Pearson Flyer	138	6135	25.00	175.29	313
Colgate 26	177	2600	20.00	145.09	322
J/30	138	7000	25.00	200.00	338
Cal 48	81	25000	35.00	260.31	341
J/24	171	3100	20.00	172.99	344
C&C 35-3	129	10825	28.00	220.14	349
Oceanis 35	186	12198	31.82	169.02	355
Newport 41-2 SD	126	18000	32.25	239.57	366
Ericson 33	144	9500	26.51	227.64	372
Newport 41S	111	16800	30.00	277.78	389
Irwin 31 Citation	171	9300	26.50	223.10	394
Helms 24	240	4200	20.83	207.46	447
Easterly 30	207	7000	23.00	256.84	464

Formulas Used:

SA/DISP Ratio = $SA / ((DISP/64)^{(2/3)})$

DISP/LWL Ratio = $(DISP/2240) / ((LWL/100)^3)$

The data is taken from SailboatData.com and may not reflect modifications to stock boats.