

APPENDIX – E

GYA ORA-1 PHRF RULES

The GYA ORA-1 PHRF Rules are abstracted from the ORRez Offshore Racing Rule found at <https://www.offshoreracingrule.org/orr-ez/orr-ez-rulebook>.

GYA ORA-1 PHRF rules Governing Handicaps and Certificates

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1. Overview

GYA ORA-1 PHRF is the handicapping rule that has been created for regional or less intense racers. The initial expense for a 3-year GYA ORA PHRF certificate is significantly lower than for the annual ORRez certificate. Speed factors are determined from existing measurement databases of production boats and simple sail measurements. The data is run through the Velocity Prediction Program (VPP) to produce ratings. Initial GYA ORA-1 PHRF hull data that are not currently in the existing data base will have a provisional rating certificate issued based on factored data from same or similar hulls. Provisional certificates will be updated (at no expense to the owner) to a full released GYA ORA-1 PHRF certificate as specific hull data is generated into the measurement data base.

In this document the terms “handicap” and “rating” are used interchangeably. GYA ORA-1 PHRF handicaps are intended to reflect the potential speed of a boat. Conversely, handicaps are not intended to reflect the ability of skipper and crew. The ORA is the Rating Authority for administration the GYA ORA-1 PHRF ratings.

The GYA ORA-1 PHRF ratings are based on the 2022 version of the Velocity Prediction Program (VPP) that calculates the speed potential of each boat for Time on Distance (TOD) ratings. Ratings are developed for W/L and RLC courses for light and medium wind conditions. TOD ratings are developed for both Spinnaker and Non-Spinnaker classes. In addition, a single General-Purpose Rating (GPR) is developed for both Spinnaker and Non-Spinnaker classes. The VPP is a set of algorithms developed through systematic research that uses fundamental scientific methods

Safety requirements are not part of this GYA ORA PHRF Rule book.

2. Obtaining a Rating

To obtain a new GYA ORA-1 PHRF rating certificate, individuals must first complete an application for a GYA ORA-1 PHRF certificate. The PHRF committee will issue a PHRF certificate to expire 12/31/2024. The PHRF committee will complete the GYA ORA-1 PHRF application data and forward to the ORA for processing. After the GYA PHRF Committee reviews and approves the GYA ORA-1 PHRF rating information, the GYA ORA-1 PHRF certificate will be mailed by the GYA PHRF Committee, and the certificate will be published online by Regatta Management System’s (RMS) link

https://regattaman.com/certificste_page.php

For boats with matching hull data in the measurement database the process is typically completed within a few days. Certificates for boats not in the database will typically take slightly longer.

3. Handicapping Procedure

In assigning a rating, Handicappers may use any data sources as deemed appropriate, including (but not limited to):

Measurements of the boat’s sails and rig data as supplied by the applicant or sailmaker.

Hull file geometry as supplied from the ORA data base, a constructed hull file, or factors developed from similar hull data.

Lightship Displacement data as supplied by the manufacturer, contained in the ORA default data file, or researched through other means.

Observed performance and race results of the boat or other boats that are similar.

Boat configuration data maintained by Offshore Racing Association (ORA)

Ratings for the same or similar boats in other areas of the country

Handicaps assume a boat is equipped to race. There are no allowances made for boats in non-race configuration.

For those boats that have a 2022 ORRez certificate, the GYA PHRF certificate is processed using the same information, including the VPP generated 8 TOD ratings. (GPR Spin and Non-Spin ratings are the average of the W/L and RLC for medium wind). **ORRez 2022 TOD ratings have been adjusted to a J/105 OD Control boat’s normal PHRF ratings as follows:**

	S W/L LGT	S W/L MED	S RLC LGT	S RLC MED	NS W/L LGT	NS W/L LGT	NS RLC MED	NS RLC MED
TOD								
J/105 OD ORRez	941.7	692.8	754.1	561.9	1027.2	709.8	833.8	597.6
LESS J/105 PHRF	150	90	120	84	226	107	191	115
TOD CONTROL #	791.7	602.8	634.1	477.9	801.2	602.8	642.8	482.6

Subtract the TOD Control # from any ORRez certificate, by above course and wind, to get the corresponding PHRF number for that boat.

One Design Templates used for ORReZ rated one design boats, such as the Viper 640, Melges 24 and several others, produce the same information and 8 ratings for the GYA PHRF one design configured boats. GYA PHRF certificates will be updated for exact matched 2022 ORReZ certificates as issued or updated.

- A. All boats shall meet the following characteristics, or reported and rated modifications, for their certificate to be valid:
- a. Moveable ballast boats are permitted.
 - b. Spars shall be banded (black band on white spars, white band on black spars) for the proper P (mainsail luff) and E (mainsail foot) dimensions listed on the GYA ORA PHRF certificate. Ketch and Yawl rigs will have PY, and EY banded; and,
Handicaps further assume that, unless reported otherwise:
 - c. For boats with symmetric spinnakers, the SPL is equal to J or manufacturers specifications. Spinnaker girths will be taken as 180% of SPL.
 - d. For boats with asymmetric spinnakers, spinnaker girths will be taken as 175% of TPS or manufacturer base boat specifications.
 - e. The default symmetrical spinnaker luff is taken as $0.95 * (ISP^2 + SPL^2)^{.5}$
 - f. The default genoa LP dimension equal to 155% of the J dimension.
 - g. Using Whisker Pole tacked to mast centerline is allowed.
 - h. The hull and appendages are unmodified from the manufactured version, except that an owner may fair the hull, keel and rudder to original design specifications without penalty.
 - i. Interiors are in the configuration that comes standard from the manufacturer.
 - j. The owner shall declare any sails or spars with larger dimension, smaller or retractable propellers or lightened interior and may declare smaller sails.

B. One-Design Class Certificate.

ORA may, at its discretion, offer One Design certificates for both designs with current OD Class rules or a group of owners with boats with a given hull that they are willing to agree on the size of sails and other equipment required to compete.

C. Crew

The crew weight will be either the program default or declared. The VPP takes this crew weight into account. Where no declaration of crew weight has been made, a Default Crew Weight will be used. Boats rated to OD class rules will default to class rule crew weight where available. All crew weights will be recommended unless specified otherwise in NORs or SIs.

D. Sail Limitations

Boats are rated to their largest sails by category: headsail (the largest of genoa, reaching, topsail or Code 0 measured as a headsail, mainsail, spinnaker (the largest of Asymmetrical, Symmetrical, or both if rated together, or Code 0 if measured in as a spinnaker), mizzen, and staysails. Boats rated as OD to Class rules, will limit sails to class rules as to dimensions. There is no limitation on sail materials.

Note: boats that fly their largest headsail tacked in front of their measured J dimension, the corrected J (JC) must be given to include the J + the distance from J to the largest headsail tack point. The distance from the standard I dimension to the new I (IC) corrected must also be given. If the boat is rated (or to be rated) and has both an asymmetrical and a symmetrical spinnaker, the dimensions of the larges of each type must be given, and both the SPL and TPS must be given. Dimensions of Code Os measured as a asymmetrical spinnaker must be given if it is the largest asymmetrical spinnaker being rated.

It is recommended that applicants and certificate holders have their largest sails (above) measured by your sailmaker to the dimensions requested on the GYA ORA-1 PHRF application. Changes to the dimensions on issued certificates and applications must be reported and rated to validate the certificate prior to its next race.

4. Changes and Adjustments to Handicaps

A. If there are changes to the hull, rig, sails, or other factors upon which a yacht' rating is based, they must be reported immediately to the GYA PHRF Rating Committee and rated to validate the certificate prior to its next race.

B. Appeals for certificates marked Provisional

Written appeal must be submitted to the GYA PHRF Committee on the standard PHRF form for Rating Adjustment Requests and follow the procedures included in the GYA PHRF by-laws. The appeal will be reviewed by the GYA PHRF Committee. Supporting documentation, including Copy of Race results must be included with the appeal.

C. Appeals for certificates marked Fully Released:

Same as B. above, except the appeal must accompanied by a fee of \$25 for review of the applicant's boat or \$100 for review of another boat's data.

The appeal will be reviewed by the PHRF Committee and forwarded to the ORA along with the fee. The ORA will perform the final review.

For boats that were rated based on their ORRez certificate, an exact match to a boat with an ORRez certificate or an OD Template, must follow the appeal procedures listed in the ORRez Offshore Racing Rule found at <https://www.ofshoreracingrule.org/orr-ez/orr-ez-rulebook>.

5. Definitions – See Glossary (including Course & Wind Range definitions:

https://www.regattaman.com/certificates_page.php



GULF YACHTING ASSOCIATION, INC.

ORGANIZED 1901 • REORGANIZED 1920



PHRF

QUARTERLY REVIEW NUMBER OF VALID CERTIFICATES THRU MAY 14, 2022

STATE	CLUB	12-18	12-19	12-20	12-21	05-22	CHANGE FM 12-21	%	ARREARS AS OF 05/14/22	
<u>FLA</u>	FWYC	30	24	25	26	23	-3		1	
	GLYC	1	1	1	2	1	-1			
	PYC	29	31	34	37	41	4		16	
	SABYC	9	4	4	3	3				
	NYCP	4	9	8	9	8	-1		3	
	BBSC	19	21	29	29	27	-2		7	
	PBYC	10	13	11	11	8	-3		2	
	DIYC			3	3	3				
	* OTHER	9	10	12	6	9	3		3	
	SUB-TOTAL		111	113	127	126	123	-3	-2%	32
<u>ALA</u>	BUCYC	21	18	19	21	23	2		9	
	FYC	28	26	26	26	26			7	
	MYC	36	37	42	48	47	-1		11	
	PTYC	12	11	10	10	9	-1		3	
	* OTHER	6	4	4	7	6	-1		5	
	SUB-TOTAL		103	96	101	112	111	-1	-1%	35
<u>MS</u>	LBYC	6	6	5	5	4	-1		1	
	BWYC	4	4	4	5	2	-3		1	
	BYC	4	3	1	2	2				
	GYC	8	10	9	8	8			2	
	JYC	1	1	1	1	1			1	
	OSYC	1	0	1	1	1				
	PCYC	14	18	19	17	18	1		1	
	SRYC	6	4	4	4	4			1	
	* OTHER	1	2	4	4	3	-1		2	
	SUB-TOTAL		45	48	48	47	43	-4	-9%	9
<u>LA</u>	CSA	29	28	24	24	24			5	
	CYC	6	6	5	5	3	-2			
	NOYC	47	41	41	44	45	1		15	
	PONTYC	28	28	27	31	26	-5		5	
	SYC	87	86	90	93	85	-8		35	
	TYC	12	12	9	9	8	-1		2	
	SSYC	3	3	2	2	1	-1		1	
	* OTHER	14	12	13	18	15	-3		10	
	SUB-TOTAL		226	216	211	226	207	-19	-9%	73
	<u>OTHER</u>	GMSC	11	3	3	3	2	-1		1
* OTHER		5	4	5	8	2	-6		1	
SUB-TOTAL		16	7	8	11	4	-7	-63%	2	
TOTAL		501	481	495	522	488	-34	-7%	151	
* NON-GYA MEMBERS =		35	32	36	43	35	-8	-23%	21	



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PHRF



GYA ORA-1 PHRF CERTIFICATE

https://regattaman.com/certificate_page.php

CERT#: GYA01176-R

GYA-PHRF.COM or GYA.org

PETE BOLAND
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SANTA ROSA BCH, FL 32459

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Pascagoula, MS 39581
228-617-6536

BOARD OF HANDICAPPERS: Thomas D. Beery, Jr. (SRYC/PONTYC) CHAIRMAN

William Zehner (STABYC) Brad Broadus (MYC) Eric Aschaffenburg (PCYC) Skipper Chenault (CSA) Rob Rogers (SYC)

CERT TYPE: FULL RELEASE EFFECTIVE 2021/12/17 VALID UNTIL 2024/12/31
EMAIL peteboland@yahoo.com CELL# 415-686-2603

YACHT CLASS: J/105 YEAR BUILT 2000 CLUB FWYC
YACHT NAME: LONDON CALLING SAIL# 343 CLUB

Rig Type: SLOOP	LOA: 34.68	Crew Wgt Method: DEFAULT
Forestay: FRACTIONAL	LWL: 29.50	Recommended Crew Wgt 1102
Keel Type: Fin with Bulb	Rated Length: 32.48	Water Ballast:
Prop Type: Folding	Beam Max: 10.98	Wetted Area SQFT: 264.5
Prop Instal: Exposed	Draft: 6.56	Stab Index Degree: 113
Prop Blades: 2	Draft Shoal:	Upwind SA/D: 21.74
Jib Furler: Yes Above Deck	Disp Empty: 8574	D/Length: 132.4
Main Roller Furling: No	Disp Sailing: 10166	Dnwind SA/D: 45.23
Spinnaker: Asymmetrical tacked centerline on bow, sprit or prod		
Large Roach Headsail: No	Genoa/Jib Leech: Has Roach or Hollow	

RIG		MAINSAIL		GENOA/JIB		SYM SPNK		ASYM SPNK		MIZZEN SAIL	
IG:	40.10	HB:	.58	LP:	13.72	JH:	.26	SL:	48.69	RIG PY:	
ISP:	41.35	MGT:	3.10	LPG%:	101.3	JMGT:	1.80	SMW:	39.01	RIG EY:	
J:	13.55	MGU:	5.53	JLUFF:	39.86	JMGU:	3.38	SF:	25.79	HBV:	
P:	41.34	MGM:	9.48	JLEECH:	37.01	JMGM:	6.63	SQFT:	27.89	MGTY:	
E:	14.60	MGL:	12.30	SQFT:	268.8	JMGL:	10.01	SQFT:	957.8	MGUY:	
SPL:		SQFT:	368.6							MGMV:	
TPS:	19.00									MGLY:	
										SQFT:	

(NOTE: PHRF RATING FOR REFERENCE)

NOTES: (STANDRD ONE DESIGN)	
PHRF CERTIFICATE # 1176	SPINNAKER BASE HDSAIL SPL MOD RFM RFG PROP NET
EXPIRATION DATE 12/31/2024	RATING: 90

ORA-1 SPINNAKER RATINGS

	W/L	W/L	RLC	RLC
GPR	LIGHT	MEDIUM	LIGHT	MEDIUM
87	150	90	120	84

ORA-1 NON-SPINNAKER RATINGS

	W/L	W/L	RLC	RLC
GPR	LIGHT	MEDIUM	LIGHT	MEDIUM
111	226	107	191	115

Owner must sign for certificate to be valid.

(ONLY RETURN CERT. FOR CHANGES)

Owner's Signature

(certificate invalid without signatures)

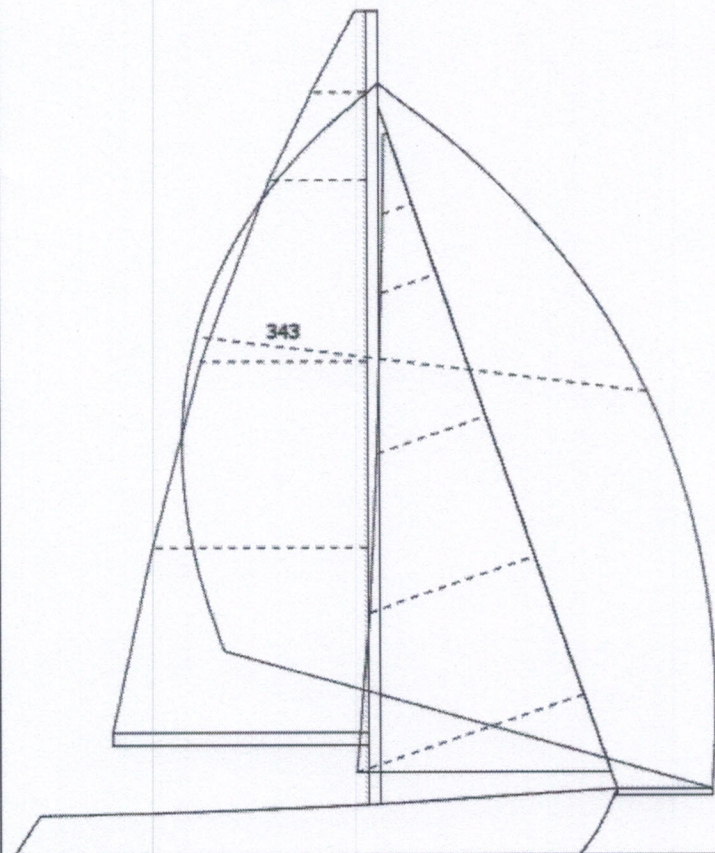
THOMAS D. BEERY, JR. Chairman

2022 OD GYA-PHRF Cert



Sails drawn in RED are based on Default Values

Yacht Name:	London Calling
Class:	J/105
Sail Number:	343
Builder:	TILLOTSON-PEARSON
Owner(s):	boland, peter
Configuration:	One Design
Local Cert #:	GYA01176
Issue Date:	2022-01-26
Valid:	2022-2024
Offsets_file:	H204.OFF
Cert Group:	GYA-PHRF
Rig Type:	Sloop
Forestay:	Fractional
Keel Type:	Fin with Bulb
Prop Type:	Folding
Prop Install:	Exposed
Prop Blades:	2
Spinnaker:	Asymmetrical tacked centerline on bow, sprit or prod
Large Roach Headsail:	No
Genoa/Jib Leech:	Has Roach or Hollow
Jib Furler:	Yes Above Deck
Main Roller Furling:	No
LOA:	34.68 ft
LWL:	29.50 ft
Rated Length:	32.48 ft
Beam Max:	10.98 ft
Draft:	6.56 ft
Disp Empty:	8574 lbs
Disp Sailing:	10166 lbs
Crew:	1102 lbs
Water Ballast:	0 lbs
Wetted Area:	264.5 ft ²
LPS:	115.1 °
RM20:	680.4 ft-lbs
Stab Index:	113 °
Upwind SA/D:	21.73
D/Length:	132.4
Drwind SA/D:	45.23



Rig Dimensions
IG: 40.10 ft
ISP: 41.35 ft
J: 13.55 ft
P: 41.34 ft
E: 14.60 ft
TPS: 19.00 ft

Mainsail Meas.
HB: 0.58 ft
MGT: 3.10 ft
MGU: 5.53 ft
MGM: 9.48 ft
MGL: 12.30 ft
Area: 368.6 ft ²

Jib/Genoa Meas.
LP: 13.72 ft
LPG %: 101.3 %
J Luff: 39.86 ft
J Leech: 0 ft
JH: 0.26 ft
JMGT: 1.80 ft
JMGU: 3.38 ft
JMGM: 6.63 ft
JMGL: 10.01 ft
Area: 268.8 ft ²

Asymmetric Spin. Meas.
ASLU: 48.69 ft
ASLE: 39.01 ft
AMG: 25.79 ft
ASF: 27.89 ft
Area: 957.8 ft ²

PHRF Ratings	
TOD (Spin)	TOD (Non-Spin)
87	111

PHRF-2C-2W-TOD Ratings				
	TOD (Spin)		TOD (Non-Spin)	
	Light	Medium	Light	Medium
W/L	150	90	226	107
RLC	120	84	191	115