

**PERFORMANCE HANDICAP RACING FLEET OF SOUTHERN
CALIFORNIA
MAY 18, 2021
TELECONFERENCE**

Regional Board Meeting Agenda
6:00 PM (Open to All Members in Good Standing)

Regional Board – Rating of Boats
7:00 PM (List of Boats to Follow)

Regional Board Meeting - In Attendance:

REGIONAL BOARD MEMBERS – VOTING MEMBERS

- **Executive Board**
 - President Dan Rossen
 - Vice President Paul Katz
 - Judge Advocate Lisa Gilinger
 - Treasurer Bob Hubbard
 - Chief Handicapper David Cattle
 - Data Systems Mgr. Sue Griesbach

- **Area Board Representatives**
 - Area A- Venture/Oxnard [Vacant]
 - Area B - MdR/KH John Staff
 - Area C - LB/LA Heinz Butner
 - Area D - Newport Beach Jeff Tighe
 - Area E/F-Dana Point/Oceanside Bob Langan
 - Area G - San Diego ~~Ivan Batanov~~
 - Area I - Santa Barbara Lisa Gilinger

NON-VOTING ATTENDEES:

- **Advisors/Administration**
 - Fleet Secretary Karen Campbell
 - Newsletter Editor Paul Katz
 - Handicap Advisor Robert Plant
 - Big Boat ~~Bruce Cooper~~
 - Cruiser ~~Bryan Dair~~
 - Sport Boat John Staff
 - Advisor at Large Jamie Myer

- **Guests**
 - Jay Tyson ORR-Ez
Representative

- **NOTE: NOT IN ATTENDANCE**

Via Teleconference:

- Please join the SoCal PHRF Meeting from your computer, tablet or smartphone by going to
 - Computer or Laptop -
<https://zoom.us/j/94703994956?pwd=VHhldWNPVnpBL1k5SVFQTTZlR0Zz09>
Meeting ID: 947 0399 4956
Password: 928267
 - One tap mobile - Dial by your location
 - +1 669 900 9128 US (San Jose)
 - +1 253 215 8782 US (Tacoma)
 - +1 346 248 7799 US (Houston)
 - +1 312 626 6799 US (Chicago)

+1 646 558 8656 US (New York)
+1 301 715 8592 US (Germantown)
Meeting ID: 947 0399 4956
Password: 928267

President's Report:

- Recap of evening's meeting agenda
- Excited that yacht clubs are opening
- Discussed the issue regarding PHRF SoCal member must be a member of a SCYA yacht club
 - Judge Advocated asked to review the Rules to see options

Vice President's Report:

- No Report but will be presenting a discussion regarding ORA-1/ORR-Ez later in the Evening

Treasurer's Report:

- Monthly Report –
 - End of April 2021
 - Profit is up from end of 2020
 - Members 482
 - Which is up from this time last year by 42 members

Judge Advocate's Report:

- No report
- Discussion regarding Chartered Boats and Configuration Adjustment
 - Nothing in Rules about Charter Boats
 - Forms not set up to capture information regarding Charters
 - Fleet Secretary will note if declared but is not required

Data Systems Report:

- No Report

Fleet Secretary's Report:

- No Report
- Very busy before Newport to Ensenada Race
 - Enrollments slowed down afterwards

Old Business

- 2021 PHRF Championships
 - Email Blast was sent earlier in the week
 - Board Members were encouraged to enter their boats or jump on another

New Business

- Other New Business:

AREA REPORT

AREA A: [Vacant]

- No Report

AREA B: John Staff

- Approved a configuration adjustment
 - Fleet Secretary requested official notice of approval

AREA C: Heinz Butner

- No Report

AREA D: ~~Jeff Tighe~~

- No Report

AREA E/F: Bob Langan

- No Report

AREA G: ~~Ivan Batanov~~

- No Report

AREA I: Lisa Gilinger

- No Report

ADVISORS:

Handicap Advisor:

Robert Plant

Sports Boat:

John Staff

- J125 has now started racing in MdR

Multihull:

Cruiser:

Bryan Dair

Big Boat/Ullman Sails:

Bruce Cooper

Advisor At Large

Jamie Myer

SPECIAL REPORT FROM VICE PRESIDENT AND ADVISOR AT LARGE:

- Please see “INTRODUCTION TO ORA-1” for additional information
- Paul Katz and Jamie Myer, with Guest, Jay Tyson for ORA-1
 - Discussion and presentation re: ORA-1/ORR-EZ database for the boats/boat types
 - Last discussion was in 2019 for boats that rate -0- or less, as previously authorized
 - Now looking at working with ORA-1 for ALL boats currently rated by PHRF SoCal
 - PHRF’s Database will need to be converted to process ORA-1 requests
 - PHRF SoCal was part of the base product that ORR used to create another program to analyze boats (ORA-1)
 - Other PHRF areas are now using this program as a 3rd party perspective
 - The “Base Boat” is a J105 that is well known up and down the Coasts
 - Currently have 3,000 boats within ORR/ORR-1 database
 - Rating Committee meets weekly to review rating and change requests
 - Would be helpful with Racer/Cruisers and Sleds
 - Can add modifications and adjust accordingly
 - Will rerate entire Fleet of PHRF SoCal Boats
 - No matter where they go in the USA, the rating remains the same
 - ORR-Ez is a hybrid system from ORR
 - Jay Tyson started off as a PHRF handicapper and used observed performance and SoCal’s system as a base for other areas
 - More information shown in the attachment (Introduction To ORA-1”
- **Chief Handicapper's Report:**
 - Discussion regarding:

PURSUANT TO PHRF SOCAL RULE 4.2c, THE FIRST AND SECOND READINGS MAY BE PERFORMED AT THE SAME MEETING OF THE REGIONAL BOARD

BOATS: 7 DAY OPPOSITION PERIOD The following boats had their first reading during the previous Regional Board meeting and passed the 7 Day Opposition Period

PLEASE NOTE THE FOLLOWING:

- **NOTHIN MUCH (61395) – PEARSON 33-2 – INITIAL RATING REVIEW/1ST READING**
 - William Sofrin (In attendance)
 - **4/20/21 - /150/150/150/**
- **POSITRON (GER 3350) – DEHLER DB2 – INITIAL RATING REVIEW/1ST READING**
 - Chris Winnard
 - **4/20/21 – /114/114/114/**

AGENDA OF BOATS FOR REVIEW:

BEGINNING AT 7:00PM

- **VIKKTOREOUS (56370) – BEN35S5M – RATING REVIEW / 1ST READING**
 - Ben & Anne Haymond (Not in attendance)
(rec'd 4/29/21)
4/29/21 – Sent to CH
New owner – 20% bow sprit was added
 - **5/18/21 1ST MOTION BY D CATTLE/ TO BE NOTED ON RATING CERTIFICATE: ALL SYMMETRICAL AND ASYMMETRICAL SAILS ARE RESTRICTED TO SIZE ON RATING CERTIFICATE WITH A SPL AS 11.15' /126/120/120/SECOND J STAFF/PASSED UNANIMOUS**
- **MARIAH (97017B) – MARIAH 27M – INITIAL RATING REVIEW/1ST READING**
 - Michael Kent (Not in attendance)
(Rec'd 5/6/21)
5/7/2021 – Sent to CH
Temporary rating requested
 - Recap of history of boat with an aluminum mast and 3 spreaders
 - Heavily modified under prior owner
 - Took very good care of his boat and new sails often
 - Sailed with 6-7 crew many professionals
 - New Owner
 - Replaced with a Carbon Fiber mast with 2 spreaders
 - Appears to sail with smaller crews
 - Review the boat's basic rating then adjust for the aluminum 3-spreader mast for a carbon fiber with 2-spreader mast
 - **5/18/21 - TABLED** (D Cattle to issue temp rating for /126/126/126/)
- **ALL BOATS REQUESTING A RATING REVIEW OR HAVE HAD A 120 DAY TEMPORARY RATING ISSUED:**
 - *Prior to being considered for scheduling a boat for any Rating Review, all owners must first forward to Fleet Secretary via email (available online):*
 - *A formal Request for Rating Review properly completed*
 - *New Application or*
 - *Those that had a Temporary Rating issued, please follow the procedures required for "Requesting for Rating Review"*
 - *Request for Rating Review*
 - *Please refer to the following [Appeal Your Rating | Performance Handicap Racing Fleet of Southern California \(phrfsocal.org\)](#)*
 - *Email all documentation to fleetoffice@phrfsocal.org*
 - *After being Scheduled and Prior to your Reading by email to fleetoffice@phrfsocal.org – [Thursday Prior to Scheduled Meeting](#)*

- Updated information:
 - All race results
 - Actual and Adjusted Results using the online spreadsheet found on website at <http://phrfsocal.org/rating-review/> “Rating Review Worksheet”
 - Any additional information that has been previously requested and/or useful for the rating process (photos, ORR certificates, etc.)
- **TIME ALLOTTED FOR OWNER(S) PRESENTATION:**
 - Introductions – Regional Board and Owners/Witnesses in attendance
 - 3 Minutes – Chief Handicapper and/or relevant Boat Advisor
 - 5 Minutes – Owner Presentation
 - 3 Minutes each for up to three (3) other boat owners remarks In Support (3 to 9 minutes max)
 - 3 Minutes each for up to three (3) other boat owners remarks In Opposition (3 to 9 minutes max)
 - 1 Minute – Owner rebuttal
- **PURSUANT TO PHRF SOCAL RULE 4.2c, THERE IS A 7 DAY OPPOSITION PERIOD FOR OBJECTIONS AFTER THE PRIOR REGIONAL BOARD MEETING MINUTES HAVE BEEN POSTED.**
- **PLEASE NOTE:** Group assignments and hearing times are established to encourage the orderly progress of a meeting. A boat may, however, be called prior to or after its assigned Group time unless a boat owner, representative or other interested party has contacted the Fleet Secretary to confirm their estimated arrival time at the hearing. Interested parties are therefore encouraged to arrive early or contact the Fleet Secretary at least one day prior to the meeting to confirm their arrival time.

PLEASE JOIN THE DISCUSSION ON ZOOM (SEE ABOVE FOR ADDITIONAL INFORMATION).

Meeting Adjourned: 8:40pm

Next Meeting:

REGIONAL BOARD MEETING

Next Scheduled Meeting: Tuesday, June 15, 2021

Location: CONFERENCE CALL UNTIL FURTHER NOTICE

INTRODUCTION TO ORA-1

The TOOL that makes PHRF racing even better!

ORA-1 based PHRF Ratings have some extremely tangible benefits:

- National Database of boats = portable ratings, and larger quantity of 'known' boats. Over 3000 in current database.
- National rating board meets weekly, not monthly.
- Significantly wider knowledge-base for cruisers, racer-cruisers and sleds (boats we struggle with).

- Ability to add new designs and concepts to the fleet (i.e.: foiling) without local expertise.
- Tested and verified modeling for modifications, no more flat-rate adjustments.
- Wind-speed sensitive ratings! This is the silver-bullet for Handicapping systems, and the biggest immediate benefit to the membership.

Of Note

- Not a wholesale change of ratings system. Many boat's ratings will be similar to their current ratings. The J-109 for example, is currently PHRF rated 75, and will stay 75. All other boats will be rated around it. Slowest and fastest boats may move the most (ends of the bell curve), but the adjacencies to usual fleets will not change too much except for boats which are currently rated poorly.
- Wind-speed ratings will happen
- ORA provides non-spin offsets based on the modeling of the boat, solves our ongoing formula concerns.

- Reduce PHRF-SoCal workload, perhaps even disband Area Boards, or fold them down to area-reps only. A huge amount of board's time is spent on a minority of sleds that never race twice with that rating. We never think about them again.
- Simplify. Remove appendixes from rules, remove Configuration Adjustments.
- Helps remove appearances (and actualities) of favoritism

**ORR-Ez is a HYBRID System in that it's
base is Velocity Prediction Program (VPP)
but its heart has a solid dose of PHRF
which is the Reality Check used for all
ORR-Ez ratings**

“It's impossible for any measurement rule to fairly rate all boats, so for local racing where it's essential to rate all boats, the consensus is that a subjective, inexpensive-to-run, performance-based handicap rule is needed” Quote from Stan Honey “Testing the Waters”

Both PHRF & VPP are based on “Observed Performance”

- The difference is that PHRF observes the performance in an uncontrolled environment and is practiced using a wide variety of discipline.

- Velocity Prediction Programs start with **Observed Performance in Tank Testing that uses scientific methods**. Then ORR-Ez/ORR-1 goes another step and analyzes any significant difference between the VPP and “National PHRF”.

Time on Distance ratings look different but it's still the delta that's important

	J/35	MELGES 24	SEC/NM OWED
<u>SoCal PHRF</u>			
W/L	72	90	18
RLC	72	72	0

<u>ORR-Ez</u>			
<u>W/L</u>			
LIGHT	922.6	938.5	16
MEDIUM	667.5	699.4	32
HEAVY	559.8	556.1	(4)

<u>RLC</u>			
LIGHT	748.6	754.5	6
MEDIUM	559.6	556.4	(3)
HEAVY	477.8	445.2	(33)

PHRF "CREDITS" are One Dimensional

As a J/105 owning friend explained – "I don't mind giving time to the 105's in OD Trim when I'm using the big headsail and they have OD sail..... but in 20 knots we both have the Blade and I still owe them time"

CONVERTING ORR-Ez Time On
Distance to ORA-1

PHRF of Chesapeake - Propeller credit =12 sec/nm

W/L	38	23	15	10	6	5
CR	26	13	8	5	3	3

SEC/NM OWED BY FOLDING PROP

	6	8	10	12	16	20
VMG Up	37	24	16	12	9	8
52	20	10	5	4	3	3
60	19	7	4	4	3	3
75	14	6	4	3	2	2
90	13	5	3	3	2	2
110	17	6	4	3	2	0
120	21	8	4	3	2	1
135	31	17	7	4	2	2
150	34	18	12	6	3	2
165	38	21	13	9	3	2
VMG Dn	39	21	14	9	4	2

J/35 - 2 BLADE FOLDING

	6	8	10	12	16	20
Up Angle	44.7	43.7	40.3	37.8	35.2	34.2
VMG Up	1016.3	841.0	752.7	707.7	665.5	649.2
52	654.9	554.5	520.0	502.9	485.8	478.5
60	607.5	532.1	502.6	487.8	472.0	464.7
75	570.1	513.3	483.8	468.8	452.1	443.4
90	566.1	510.0	476.9	458.9	437.1	426.2
110	590.7	519.3	483.3	457.2	422.8	408.1
120	628.3	536.9	497.1	468.6	423.7	393.6
135	758.4	598.8	531.2	494.9	444.1	400.8
150	921.2	715.6	591.2	529.6	467.6	423.7
165	1027.5	798.2	658.9	572.0	490.3	443.4
VMG Dn	1063.7	826.4	682.1	592.2	503.8	454.6
Dn Angle	141.1	149.2	151.7	163.4	173.3	174.3

J/35 - 3 BLADE FIXED

	6	8	10	12	16	20
Up Angle	45.4	44.3	41.1	38.6	35.8	34.7
VMG Up	1053.3	865.3	768.5	719.6	674.3	657.0
52	675.1	564.3	525.4	507.1	489.2	481.5
60	626.4	539.0	506.9	491.3	474.8	467.3
75	583.7	518.8	487.3	471.7	454.5	445.7
90	579.3	515.0	480.2	461.8	439.4	428.3
110	607.4	525.2	487.1	460.0	424.4	406.7
120	649.5	544.7	501.5	471.7	426.0	394.9
135	788.9	615.5	537.8	499.0	446.5	403.0
150	955.0	734.0	602.9	535.3	470.3	425.8
165	1065.1	818.7	672.2	580.5	493.6	445.6
VMG Dn	1102.7	847.6	695.9	600.9	507.4	456.8
Dn Angle	143.4	148.5	151.4	162.4	173	174.2

A key point for ORA-1 was to make the ratings feel comfortable for the owners.

Traditional VPP TOD ratings reflect the seconds required to travel 1 nm. So no “negative” ratings.

Based on conversation with multiple PHRF regions it was agreed to use the J/105 OD and PHRF SoCal ratings as the benchmark for “aligning” ORA-1 ratings.

Farr 40 Template	0	(3)	Farr 40	(18)	(14)	(1)	2	641.9	484.2	787.1	588.5
J/35 Template	72	72	J/35	118	65	106	78	748.6	559.6	922.6	667.5
	72	75		136	79	107	75	107	75	136	79

Converting ORR-Ez to ORA-1

Boat Name	PHRF SoCal		Boat Type	ORA-1				ORR-Ez			
	W/L	RLC		SPINNAKER				TOD SPINNAKER			
				W/L		RLC		RANDOM		W50/L50	
				LIGHT	MED	LIGHT	MED	LIGHT	MED	LIGHT	MED
ORA-1 Scratch Boat	90	84	J/105	150	90	120	84	763.1	565.8	955.0	692.4
1D 35 Template	42	42	1D 35	41	24	40	29	683.5	510.4	846.2	626.4
Ben First 36.7 Template	81	81	Beneteau First 36.7	126	69	110	80	753.4	562.0	931.1	671.6
Cal 25 Template	240	240	Cal 25	380	259	314	232	956.7	714.2	1184.5	861.2
Catalina 22 Template	270	270	Catalina 22	477	284	368	244	1011.3	725.3	1281.9	886.2
Etchells Template	117	117	Etchells	270	181	219	161	861.9	643.0	1074.8	783.2
Express 27 Template	132	132	Express 27	223	146	183	130	825.8	611.7	1028.4	748.1
Farr 30 Template	56	46	Farr 30	44	39	51	44	693.6	525.3	849.4	641.7
Farr 40 Template	0	(3)	Farr 40	(18)	(14)	(1)	2	641.9	484.2	787.1	588.5
J/105 Template	90	84	J/105	150	90	120	84	763.1	565.8	955.0	692.4
J/111 Template	42	33	J/111	43	30	44	37	687.2	518.4	848.0	632.3
J/22 Template	186	186	J/22	332	216	270	192	913.5	674.2	1137.4	818.7
J/24 Template	174	174	J/24	288	191	244	179	887.4	660.4	1092.7	793.6
J/29 Mh OB Template	111	111	J/29 Mh OB	162	107	149	116	792.0	597.8	967.0	709.7
J/30 Template	138	138	J/30	201	132	175	132	818.0	613.7	1005.6	734.8
J/35 Template	72	72	J/35	118	65	106	78	748.6	559.6	922.6	667.5

Both of these “boats” have ORR-Ez Certificates





More about ORR/ORR-EZ, ORA

- <https://www.youtube.com/watch?v=a5PU9kvfwIM>

- <https://www.sailingworld.com/racing/testing-waters/>

Recent Race Results for PHRF and ORA-1

- Newport to Ensenada
- Marina Del Rey Before Sunset Races 1 and 2

2021 ORR & SoCal ORR-Ez

<https://nosa.org/its-on-2021-newport-to-ensenada-international-yacht-race/>

Cert ID	Boat Name	Boat Type	125		ORA - MOSTLY LW - LIGHT				PHRF			
			ELAP	VMG	TCF	CORR	POS	SPM	ELAP	CORR	POS	SPM
N2E US42962	Pyewacket 70	Volvo 70 mod	9:47:21	12.8	1.094	10:42:34	1	0	9:47:21	16:08:39	2	2
N2E US41094	BOLT	Nelson Marek 68	13:41:30	9.1	0.831	11:22:40	2	19	13:41:30	16:27:33	4	11
N2E US41345-1	Peligroso	Kernan 68	12:08:49	10.3	0.947	11:30:11	3	23	12:08:49	16:04:34	1	0
N2E US42284	Fast Exit II	Ker 51	13:21:44	9.4	0.890	11:53:33	4	34	13:21:44	16:38:32	6	16
N2E US41687	Destroyer	TRANSPAC 52	13:42:35	9.1	0.886	12:08:49	5	41	13:42:35	16:53:14	8	23
N2E US41646	Bretwalda 3	ROGERS IRC 46	15:06:56	8.3	0.816	12:20:03	6	47	15:06:56	16:35:05	5	15
N2E US40032	Medicine Man	Andrews 63	13:10:24	9.5	0.937	12:20:36	7	47	13:10:24	16:21:03	3	8
N2E US40366	Pendragon Iv	Davidson 52	14:36:31	8.6	0.869	12:41:42	8	57	14:36:31	16:51:49	7	23
N2E EZ11131	Timeshaver	Imx 40	18:52:26	6.6	0.687	12:57:59	9	65	18:52:26	17:42:44	9	47
N2E EZ11212	No Compromise	J/105	21:18:53	5.9	0.633	13:29:32	10	80	21:18:53	19:03:35	12	86
N2E EZ10645-OD-1	Temptress	Farr 40	18:21:43	6.8	0.748	13:44:05	11	87	18:21:43	18:34:01	11	72
N2E US42868-1	Zero Gravity	SOTO 40	17:39:04	7.1	0.790	13:56:40	12	93	17:39:04	18:09:49	10	60
N2E US42922	Nalu V	CAL 40	26:21:59	4.7	0.567	14:56:59	13	122	26:21:59	22:28:17	15	184
N2E US43011	Knotty Boo	Beneteau 49	24:21:02	5.1	0.616	15:00:00	14	124	24:21:02	21:47:17	13	165
N2E EZ11153	Rhumb Runner	J/29 Mh OB	26:00:40	4.8	0.595	15:28:36	15	137	26:00:40	22:13:07	14	177

2021 ORR & SoCal ORR-Ez

<https://nosa.org/its-on-2021-newport-to-ensenada-international-yacht-race/>

Cert ID	Boat Name	Boat Type	ELAP	VMG	98				PHRF				
					ORA - MOSTLY LW - LIGHT								
					TCF	CORR	POS	SPM	ELAP	CORR	POS	SPM	
N2SD	US42869	Katara	J/145	12:50:17	7.6	0.779	10:00:03	1	0	12:50:17	13:27:05	1	0
N2SD	US42545	Palaemon	J/145	12:58:43	7.6	0.778	10:05:50	2	4	12:58:43	13:35:31	2	5
N2SD	EZ11198	HolyToledo West	Hobie 33 R	17:34:10	5.6	0.627	11:00:58	3	37	17:34:10	15:29:58	3	75
N2SD	US41691	More Maddness	J/145	15:16:31	6.4	0.779	11:53:58	4	70	15:16:31	15:53:19	4	90
N2SD	US41988	Marisol	J/124	16:49:08	5.8	0.714	12:00:31	5	74	16:49:08	15:57:00	5	92
N2SD	US41066	ANDIAMO2	J/145	15:58:55	6.1	0.780	12:27:57	6	91	15:58:55	16:35:43	6	115
N2SD	EZ11208	Blue Flash	J/88	20:45:12	4.7	0.650	13:29:23	7	128	20:45:12	18:59:24	7	203
N2SD	EZ11014	FLYING MONKEYS	Moore 30	DNF		0.752	DNF			DNF			
N2SD	US43008	ms Behavior	Hobie 33	DNF		0.633	DNF			DNF			

CYC-2021 Before Sunset #1

5/14/2021 15:18

First Gun Time: 17:50:00 Race Conditions: Wind speed 8 knots at 240-250

Fleet	Yacht Name	Sail No.	SOURCE	ORA-1 W/L		Boat Type	Rating	NM	ELAP	VMG	PHRF W/L				ORA-1					
				LIGHT	MED						Corr.	SCPM	POS	SPM	LIGHT	ALLOW	Corr.	SCPM	POS	SPM
PH B	Bravura	46565	2021	15	3	Farr 44	32	7.10	01:22:21	5.2	01:18:34	663.9	2	11	15	0:01:46	01:20:35	680.9	3	29
PH B	Dark & Stormy	129	EZ11075	16	37	Henderson 30	-99	7.10	01:28:40	4.8	01:40:23	848.3	6	195	16	0:01:54	01:26:46	733.3	5	81
PH B	Forgiveness	56192	EZ10225	75	30	J/124	45	7.10	01:30:21	4.7	01:25:02	718.6	5	66	75	0:08:52	01:21:29	688.5	4	37
PH B	Menace	37	00	44	39	Mumm 30 R	56	7.10	01:30:07	4.7	01:23:29	705.5	RET	53	44	0:05:12	01:24:55	717.5	RET	66
PH B	Mexican Divorce	35010	00	41	24	1D35 Modified	40	7.10	01:22:00	5.2	01:17:16	653.0	1	0	41	0:04:51	01:17:09	652.0	1	0
PH B	Obsidian	11105	00	43	30	J/111	42	7.10	01:24:56	5.0	01:19:58	675.8	4	23	43	0:05:05	01:19:51	674.7	2	23
PH B	Tiburon	38042				Santa Cruz 37	36	7.10	01:23:40	5.1	01:19:24	671.0	3	18						

2021 CYC BEFORE SUNSET #2

WIND 7 to 12 @225

Fleet	NAME	MAKE	W/L	NM	ELAP	VMG	CORR	PHRF		ORA-1			*AVG*	ORA-1			
								PO	SPM	7.5		12.5		ALLOW	CORR	PO	SPM
PH B	Bravura	Farr 44	Spin	32	7.1	01:12:53	5.8	01:09:06	1	0	15	9	3	0:01:04	01:11:49	3	15
PH B	Mexican Divorce	1D35 Modified	Spin	40	7.1	01:13:50	5.8	01:09:06	1	0	41	33	24	0:03:51	01:09:59	1	0
PH B	Obsidian	J/111	Spin	42	7.1	01:15:11	5.7	01:10:13	2	9	43	37	30	0:04:19	01:10:52	2	7
PH B	Tiburón	Santa Cruz 37	Spin	36	7.1	01:16:07	5.6	01:11:51	3	23							
PH B	Menace	Mumm 30 R	Spin	56	7.1	01:18:52	5.4	01:12:14	4	26	44	42	39	0:04:55	01:13:57	4	34
PH B	Forgiveness	J/124	Spin	45	7.1	01:20:31	5.3	01:15:12	5	52	75	53	30	0:06:13	01:14:18	5	36
PH B	Akaw!	Olson 40	Spin	54	7.1	01:23:44	5.1	01:17:21	6	70							
PH C	Trust Me	Soverel 33-2	Spin	87	7.1	01:19:02	5.4	01:08:44	1	0	117	75	33	0:08:52	01:10:10	1	0
PH C	Wolfhound	11 Meter	Spin	84	7.1	01:20:06	5.3	01:10:10	2	12	81	74	66	0:08:42	01:11:24	2	11
PH C	Zephyr	J/109	Spin	75	7.1	01:20:48	5.3	01:11:56	3	27	85	72	58	0:08:28	01:12:20	3	18
PH C	In Tenth's	J/80	Spin	96	7.1	01:25:45	5.0	01:14:23	4	48							
PH C	Lizzie Rose	Tartan 101	Spin	75	7.1	01:25:00	5.0	01:16:08	5	63	102	84	66	0:09:56	01:15:04	5	41
PH C	Mistral	Tartan 101	Spin	75	7.1	01:25:13	5.0	01:16:21	6	64	102	84	66	0:09:56	01:15:17	6	43
PH C	Darkside	Fareast 28r	Spin	75	7.1	01:26:11	4.9	01:17:19	7	73							
PH C	Feleena	J/109	Spin	75	7.1	01:32:05	4.6	01:23:13	8	122	85	72	58	0:08:28	01:23:37	8	114

ORA-1 Pricing

- Pricing is based on several factors such as existing ORR/ORR-EZ certificates, prior certificates, boat types that are already in the ORA database, and boats that will need PHRF So Cal staff to do input for boat hulls new to ORR/ORA.
- The average of the above variables is \$25 per boat certificate which is valid for three years. For our 456 member boats, the pricing is something like \$11,500 (total) paid in increments over three years.

Final Points

- Ratings for two different wind speeds will replace the area rating process
- Configuration measures fixed props and furlers part of the ORA base rating
- Workload of rating boats is now shared with a national team with more boat data, rating processes, and experts.
- Harder to game the system with more national experts looking at ratings
- Our members benefit from a bigger bench of knowledgeable people looking at boat ratings for Southern California
- Ratings independent of local relationships
- Remove legacy gift ratings from PHRF So Cal

- Better information to rate more complicated racing boats and newer boat modifications
- **Results in a Fairer & Evenhanded rating process**

Next Steps

- Questions/Comments
- Review our rules to see if any changes are needed
- Set up a folder of ORA-1 information for Board Members
- Look at any necessary changes for our information systems

- Hold a go/no go vote at the June Board meeting