



CLUB STATION  
K6SON

# Short Skip

The Newsletter of

Sonoma County Radio Amateurs, Inc.

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REPEATER STATION  
W6SON

Volume 44, Number 10

October 2019

## High Adventure with Summits on the Air

by erin casteel, K6ERI



It was hot. And humid. And although it was evening and I was at 6,684 feet elevation, the North Carolina summer clung to everything. At least there were no bugs. The trees were too brushy and the hour too late to wrestle with the long wire antenna, so I extended the whip, flung the end of the counterpoise into the

bushes, and began calling CQ on 20 meters.

I was perched on a granite ledge on the western flank of Mount Mitchell attempting to activate it for Summits on the Air, but something was wrong. I'd been calling CQ for fifteen minutes with no response. That wasn't normal -- activators are avidly chased and usually have to manage a pileup. My SWR was near 1:1 and I was putting out a full 10w of power, so what could be wrong? I yanked out my earbuds and stood up. "Nick? Do you have cell service up there? Can you check whether my spot actually went out?" My hiking partner Nick, N1CKA, was on top of the observation deck.

My self-spot had gone out, which meant my callsign and frequency were posted on a website for chasers to find. "But why don't you operate from up here? It's a few feet higher and it's not crowded." He was right. I'd avoided the platform out of consideration for other visitors, but there was only one other person there at this hour. I could drop my counterpoise over the edge and let it dangle in free space, and I would have that much more elevation. I grabbed my gear and hiked the few feet up to the observation deck.

Setup was quicker this time: everything was already plugged in. I just had to settle my KX2 on the wide railing, extend the whip, drop the end of the counterpoise, and jam my earbuds into my ears.

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**VICE PRESIDENT'S MESSAGE OCT., 2019**

Greetings. The October 2nd membership meeting topic will be "Don't Panic: Be Prepared Instead" by Keith AG6CI. SCRA's elections are coming! Would

you like to actively implement the club's objectives? There are six elected positions that will be filled at the November 6th membership meeting, namely President, Vice President, Treasurer, Secretary, and two non-officer Directors. More details will be given at the October 2nd membership meeting. Now is a good time to express your interest.

Amateur radio has many facets. If you've experienced or concocted anything that may be of interest to other hams, please pen a brief note or lengthy masterpiece and submit it to Dave KI6UGB at [shortskippeditor@gmail.com](mailto:shortskippeditor@gmail.com) for publication in Short Skip, the club's newsletter. It doesn't have to be universally interesting or elegant. We'll still love it.

In September, SCRA successfully provided two days of radio support for MS Waves to Wine and taught a class on How to Program Your New Radio. Both events were well received. Thank you, volunteers.

Would you like to see students contact the International Space Station via Amateur Radio? That will happen at the Sonoma County Main Library on Tuesday October 1st at 12:53 pm local time. The students will use a telebridge to an off-site ham station. Arrive early.

Saturday October 5th is Levi's GranFondo with 4,000 bicycle riders pedaling 12 courses spanning 8.8 to 114 miles, out to and along the coast. SCRA with help from other clubs will again provide radio support. Check the SCRA website for last-minute sign-up opportunities. I'm sure we could use more SAGs. Don't have a license? Attend our Technician License Class on October 11-13, followed by the license exam.

The North Bay Science Discovery Day on October 26th is a fun technical event and a great opportunity to promote amateur radio to the public. Sign up to work in the SCRA information booth run by Darryl KI6MSP. But wait, there's more! The SoNoMas bicycle event that was canceled in April due to rain has been rescheduled for November 2nd. It is a simplex event at Lake Sonoma. Sign-ups on the SCRA website are open.

73 - Fred AE6SF

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## OCTOBER PROGRAM

### Don't Panic: Be Prepared Instead

by Keith AG6CI

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### JOIN ARRL, THE AMERICAN RADIO RELAY LEAGUE

The ARRL is the national organization of Amateur Radio. It represents Amateur Radio at International Conferences and before the FCC. Get the monthly QST magazine, insurance for your equipment and too many other benefits to mention here. Click <http://www.arrl.org/membership/>



If you are not getting the ARRL San Francisco Section news by e-mail and you are an ARRL member, be sure to subscribe under your Members Only information or go to this Web site:

<http://www.arrl.org/Groups/view/san-francisco>

## 2019 Club Officers

President	<a href="#">John Felton</a>	KE5RI
Vice President	<a href="#">Fred Seitel</a>	AE6SF
Secretary	<a href="#">Bill Dornbush</a>	KM6BYD
Treasurer	<a href="#">Iola Beckley</a>	KK6HRE
Director	<a href="#">Randy Hall</a>	AA6RH
	<a href="#">Doug Payne</a>	KF6LMB
Past President	<a href="#">Iola Beckley</a>	KK6HRE

## Committee Lineup/Contacts

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## Short Skip Advertising Rates

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1st Quarter Column	\$13 per month
Each Additional Quarter Column	\$4 per month
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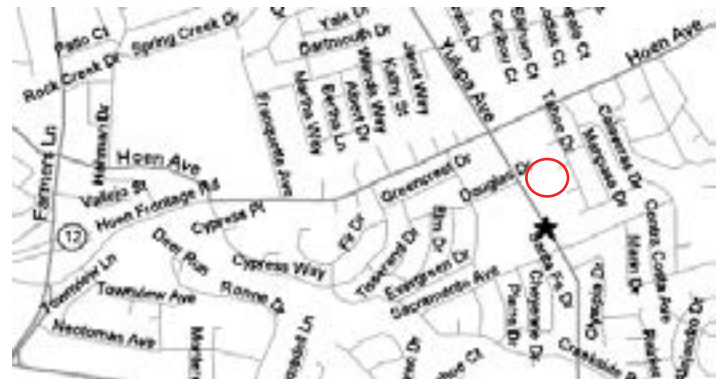
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## SCRA Club Meetings

The club normally meets the first Wednesday of each month, socially at 6:30 pm, program starting at 7:00 pm. Exceptions are holidays or other big events.

Meeting location:  
Luther Burbank Art & Garden Center  
2050 Yulupa Avenue  
Santa Rosa, CA



### All are welcome!

Please join us at our next meeting. Anyone interested in Amateur Radio is eligible for membership. A membership application is included in this newsletter. For more information, contact any SCRA officer, director or member. Hungry before the meeting? Join us for dinner! We Meet at IHOP restaurant, 4th and Farmers Lane, Santa Rosa. People start showing up at 5:15 PM. No RSVP is required.

## Board of Directors Meeting

The SCRA Board of Directors will meet monthly on the Second Wednesday at the IHOP Restaurant, Fourth Street, Santa Rosa (in the Safeway/CVS Pharmacy center). All members are welcome to attend, no reservations necessary. Arrive around 5:15- 5:30pm for dinner. Meeting starts at 6:00pm.



## LOANER RADIOS AVAILABLE

The Club has a variety of radios available to members to try out and improve their skills. We have a Kenwood T590 SG HF radio; Yeasu FT 2900 2 meter mobile; Yeasu FT1D, an analog/digital 2 meter and 440mhz HT; Yeasu FT 60, a 2 meter and 440 mhz HT; and a TYT TH-F5 VHF 2 meter HT. Trying these out is an excellent way to learn some radio and test before you buy. Contact Joe, K6AWA, at [k6awa@yahoo.com](mailto:k6awa@yahoo.com) with your request. Joe will forward an information form to you by return email.

## UPGRADE TO GENERAL OR AMATEUR EXTRA CLASS

Get more privileges and enjoyment from your Ham Radio Hobby. [Mentoring assistance](#) is available. Contact Cornell Chesnik, W6HMN, SCRA Education Chair, at [w6hmn@sonic.net](mailto:w6hmn@sonic.net).

### Tuesday Night Net

The Sonoma County Radio Amateurs' net meets Tuesday at 7:00 PM on the SCRA repeater, 147.315, positive offset, PL 88.5.

All members and guests are invited to check in. The Net includes updates on SCRA activities, and News-line, the amateur radio community news service.

Anyone wishing to work as net control should contact lola kk6hre, at K6SON@ARRL.NET for assignment. Script and logs are available on the Website at <http://sonomacountyradioamateurs.com/wp/resources/net-script/>



## The Weekly 160 Meter Net

Announcing the new 160 meter net which runs from 8:45pm to 9:30pm Tuesday nights, immediately following the 10 meter net hosted by Joe K6AWA. Tune your radio frequency to 1.900 Mhz. LSB. 160 meters requires a General or above license to transmit.

## Your Tuesday Night Net Line-up

7:00pm Membership Net on the SCRA repeater, 147.315, positive offset, PL 88.5

**10 Meter Net** - starts at 8:00pm (new time) following the regular SCRA net Tuesday nights and ends at 8:45pm. Set your dial to 28,403.00 SSB, USB. Please note that all license classes (including technician) are welcome.

**160 Meter Net** - runs from 8:45pm to 9:30pm. Tune your radio frequency to 1.910 Mhz. LSB. 160 meters requires a General or above license to transmit.

## Digital Mobile Radio Sonoma County Talk Group 31707!

The club's DMR footprint continues to expand! We established a beachhead on DMR and the BrandMeister network of repeaters and hotspots by adding a talk group for Sonoma County! We are using talk group number 31707 to keep in touch on DMR and be able to discuss local news and topics of interest. The use of a talk group like 31707 allows a wider variety of Sonoma County DMR hams to be able to consistently reach each other on the air. Best of all, the 31707 talk group can be reached on hotspots as well as repeaters, meaning you can tie into your local community wherever you are!

**Sonoma County DMR Net, Moving to Thursdays at 6:30 PM PT!**

We also started a DMR net for Sonoma County (using talk group 31707) that lets us practice a little bit of traffic handling, while also allowing us to get together and talk about ways we can integrate DMR into our normal operating habits! Currently Randy AA6RH runs net control. If you have a DMR radio, make sure to program it (or ask Randy to help you program it) to include talk group 31707 on any of the area DMR repeaters (there are at least four in Sonoma County!) and join us on Thursday evenings!

## 2019 SCHEDULE OF EVENTS

Check the [Club website](#) for details

### Community outreach:

10/26 North Bay Science Festival

### Public Service:

10/5 Levi's Gran Fondo

11/2 SoNoMas

### 80th Anniversary

12/4 Holiday dinner

### OTHER:

10/19 Jamboree On The Air

10/18-20 Pacificon

### VE Sessions

11/16

## CONTEST CORNER

Welcome to Contest Corner for October 2019.

A contest log is the topic and the question of whether to submit a log for a particular contest is a common one. Should I or do I really have to? Well the best answer is I should, particularly if you have worked more than a handful of stations. A couple maybe not but eventually as you engage in contests more often learning how to properly submit your log is just another enhancement of your overall operating skills. Your log will help the organizers check against other logs for fairness and provide them with actual participation data in the contest. Some hams have even won or placed in smaller contests due to their unique class of operating. The actual rules of contests do not require that you submit a log but the assumption is that those participating will and thus help the particular contest in general.

The month of October has a good selection of contests to choose from. Starting at the first weekend you can choose to participate in the Oceania DX Contest, Phone or the Russian WW Digital Contest and use our West Coast advantage for skip across the Pacific Ocean. The YLRL DX/NA YL Contest is a worldwide participation of female operators only, be it ssb, cw, or digital. The SKCC QSO Party and FISTS' Fall Slow Speed Sprint will keep the straight key folks busy. Check out the International HELL Contest and see what that's all about. And still in the first weekend of October the California QSO Party is happening. A short easy exchange is helpful particularly when everyone is after you. Pick an open frequency and run with it. The second weekend of October gives us QRP ARCI Fall QSO Party, Oceania DX Contest, CW, SKCC Weekend Sprintathon, FISTS Fall I Unlimited Sprint, and four state QSO parties. On the third weekend it's 10-10 international Fall Contest, CW, New York QSO Party, Illinois QSO Party, Stew Perry Top band Challenge, CW, and Run For the Bacon, QRP. The big contest for the month comes in on the last weekend. The CQ Worldwide DX Contest, SSB will light up the bands as good as can be during this decline of Cycle 24. Let me give one last shout out to the Zombie Shuffle on the 18th. This Qrp contest is a mix of not so serious ops out having fun and continuing the motto: "Zombies don't Sprint, we Shuffle".

Do not forget to check out <http://www.contestcalendar.com>

Contact [nq6e@arrl.net](mailto:nq6e@arrl.net) for questions/comments/suggestions regarding Contest Corner.

72/73,  
NQ6E



<https://www.bikemonkey.net/>

Bruce Draper, AA5B, aa5b.corral@gmail.com

# Contest Corral

# October 2019

Check for updates and a downloadable PDF version online at [www.arrl.org/contests](http://www.arrl.org/contests). Refer to the contest websites for full rules, scoring information, operating periods or time limits, and log submission information.

	Start Date-Time	Finish Date-Time	Bands	Contest Name	Mode	Exchange	Sponsor's Website
1	0100	1 0300	3.5-28	ARS Spartan Sprint	CW	RST, SPC, power	<a href="http://arsqrp.blogspot.com">arsqrp.blogspot.com</a>
1	0800	7 2000	All	IQRP Quarterly Marathon	CW Ph Dig	RS(T)	<a href="http://arimontebelluna.it/contest.htm">arimontebelluna.it/contest.htm</a>
1	1900	1 2300	222	220 MHz Fall Sprint	CW Ph Dig	4-char grid square	<a href="http://svhfs.org">svhfs.org</a>
2	2000	2 2100	3.5	UKEICC 80-Meter Contest	Ph	4-char grid square	<a href="http://www.ukeicc.com">www.ukeicc.com</a>
3	0700	3 1000	3.5-7	German Telegraphy Contest	CW	RST, LDK (if DL)	<a href="http://agcw.org/index.php/en">agcw.org/index.php/en</a>
3	1700	3 2000	3.5	SARL 80-Meter QSO Party	Ph	RS, serial, grid locator or QTH	<a href="http://www.sarl.org.za">www.sarl.org.za</a>
3	1700	3 2100	28	NRAU 10-Meter Activity Contest	CW Ph Dig	RS(T), 6-char grid square	<a href="http://nrau.net/activity-contests">nrau.net/activity-contests</a>
3	1900	3 2100	1.8-50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or power	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
5	0600	6 1800	3.5-28	TRC DX Contest	CW Ph	RST, serial, "TRC" if member	<a href="http://www.trcdx.org/trcdx">www.trcdx.org/trcdx</a>
5	0800	6 0800	1.8-28	Oceania DX Contest, Phone	Ph	RS, serial	<a href="http://www.oceaniadxcontest.com">www.oceaniadxcontest.com</a>
5	1200	6 1159	1.8-28	Russian WW Digital Contest	Dig	RST(Q), 2-char oblast code or serial	<a href="http://rdclub.ru/rdr-news/russian-ww-digital-contest/51-rus-ww-digi-rules">rdclub.ru/rdr-news/russian-ww-digital-contest/51-rus-ww-digi-rules</a>
5	1400	7 0200	Any	YLRL DX/NA YL Contest	CW Ph Dig	Serial, RS(T), SPC	<a href="http://ylrl.org/wp/dx-na-yl-contest">ylrl.org/wp/dx-na-yl-contest</a>
5	1600	6 1100	3.5-7	International HELL-Contest	Dig	RST, serial	<a href="http://www.darc.de/der-club/referate/conteste/hell-contest/ausschreibung">www.darc.de/der-club/referate/conteste/hell-contest/ausschreibung</a>
5	1600	6 2200	1.8-28	California QSO Party	CW Ph	Serial, county or SPC	<a href="http://www.cqp.org">www.cqp.org</a>
5	1700	5 2100	3.5-28	FISTS Fall Slow Speed Sprint	CW	RST, SPC, name, mbr or power	<a href="http://fistsna.org">fistsna.org</a>
5	1800	6 1800	All	SKCC QSO Party	CW	RST, SPC, name, 4-char grid square	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
6	0500	6 2300	3.5-28	RSGB DX Contest	CW Ph	RS(T), serial	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
6	0600	6 0900	3.5	UBA ON Contest, SSB	Ph	RS, serial, ON section (if ON)	<a href="http://uba.be/en/hf/contest-rules">uba.be/en/hf/contest-rules</a>
6	2200	6 2359	7-21	Peanut Power QRP Sprint	CW Ph	RS(T), SPC, peanut number or power	<a href="http://www.nogaqrp.org/PeanutPower">www.nogaqrp.org/PeanutPower</a>
9	0030	9 0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	<a href="http://naqc.info">naqc.info</a>
9	1900	9 2300	432	432 MHz Fall Sprint	CW Ph Dig	4-char grid square	<a href="http://svhfs.org">svhfs.org</a>
10	0001	10 2359	28	10-10 International 10-10 Day Sprint	CW Ph Dig	Name, mbr or "0," SPC	<a href="http://www.ten-ten.org">www.ten-ten.org</a>
12	0000	12 2359	1.8-28	QRP ARCI Fall QSO Party	CW	RST, SPC, mbr or power	<a href="http://qrparci.org/contests">qrparci.org/contests</a>
12	0000	13 1559	3.5-28	Makrothen RTTY Contest	Dig	4-char grid square	<a href="http://www.pl259.org/makrothen">www.pl259.org/makrothen</a>
12	0300	13 2100	1.8-UHF	Nevada QSO Party	CW Ph	RS(T), "NV" and county, or SPC	<a href="http://nvqso.com">nvqso.com</a>
12	0800	12 1400	902 and up	Microwave Fall Sprint	CW Ph Dig	6-char grid square	<a href="http://svhfs.org">svhfs.org</a>
12	0800	13 0800	1.8-28	Oceania DX Contest, CW	CW	RST, serial	<a href="http://www.oceaniadxcontest.com">www.oceaniadxcontest.com</a>
12	1200	13 1200	3.5-28	Scandinavian Activity Contest, SSB	Ph	RST, serial	<a href="http://sactest.net/blog/rules">sactest.net/blog/rules</a>
12	1200	13 2359	1.8-50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
12	1600	13 2200	1.8-UHF	Pennsylvania QSO Party	CW Ph Dig	Serial, county or ARRL/RAC section	<a href="http://paqso.org">paqso.org</a>
12	1600	13 2359	1.8-144	Arizona QSO Party	CW Ph Dig	RS(T), county or SPC	<a href="http://www.azqsoparty.org">www.azqsoparty.org</a>
12	1700	12 2100	3.5-28	FISTS Fall Unlimited Sprint	CW	RST, SPC, name, mbr or power	<a href="http://www.fistsna.org">www.fistsna.org</a>
12	1800	13 1800	1.8-144	South Dakota QSO Party	CW Ph Dig	RS(T), county or SPC	<a href="http://www.sdqsoparty.com">www.sdqsoparty.com</a>
12	2000	13 2000	1.8	PODXS 070 Club 160-Meter Great Pumpkin Sprint	Dig	RST, SPC	<a href="http://www.podxs070.com">www.podxs070.com</a>
13	0530	13 0800	3.5	UBA ON Contest, CW	CW	RST, serial, ON section (if ON)	<a href="http://uba.be/en/hf/contest-rules">uba.be/en/hf/contest-rules</a>
13	0800	13 1000	50	UBA ON Contest, 6 Meters	CW Ph	RST, serial, ON section (if ON)	<a href="http://uba.be/en/hf/contest-rules">uba.be/en/hf/contest-rules</a>
14	0000	14 0200	1.8-28	4 States QRP Group Second Sunday Sprint	CW Ph	RS(T), SPC, mbr or power	<a href="http://www.4sqrp.com">www.4sqrp.com</a>
14	1900	14 2030	3.5	RSGB 80-Meter Autumn Series, CW	CW	Other station's call, your call, serial, name	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
17	1900	17 2030	3.5	AGCW Semi-Automatic Key Evening	CW	RST, serial, 2-digit year first used a bug	<a href="http://agcw.org/index.php/en">agcw.org/index.php/en</a>
18	1600	18 2359	3.5-14	Zombie Shuffle	CW	RS(T), SPC, zombie number or area code, name	<a href="http://www.zianet.com/qrp">www.zianet.com/qrp</a>
19	0000	20 1600	50-144	Araucaria World Wide VHF Contest	CW Ph	RS(T), 6-char grid square	<a href="http://avhfc.com/rules/en.pdf">avhfc.com/rules/en.pdf</a>
19	0000	20 2359	50-1296	ARRL EME Contest	CW Ph Dig	Signal report	<a href="http://www.arrl.org/eme-contest">www.arrl.org/eme-contest</a>
19	0000	20 2359	3.5-28	JARTS WW RTTY Contest	Dig	RST, age of operator	<a href="http://jarts.jp/rules2019.html">jarts.jp/rules2019.html</a>
19	0001	20 2359	28	10-10 International Fall Contest, CW	CW	Name, mbr or "0," SPC	<a href="http://www.ten-ten.org">www.ten-ten.org</a>
19	1400	20 0200	All	New York QSO Party	CW Ph Dig	RS(T), county or SPC	<a href="http://www.nyqrp.org">www.nyqrp.org</a>
19	1500	20 1459	3.5-28	Worked All Germany Contest	CW Ph	RS(T), DOK (local area code) or serial	<a href="http://www.darc.de/der-club/referate/conteste/worked-all-germany-contest/en/rules">www.darc.de/der-club/referate/conteste/worked-all-germany-contest/en/rules</a>
19	1500	20 1500	1.8	Stew Perry Topband Challenge	CW	4-char grid square	<a href="http://www.kkn.net/stew">www.kkn.net/stew</a>
19	2000	19 2359	1.8-7, 21-50	Feld Hell Sprint	Dig	RST, mbr, SPC, grid	<a href="http://sites.google.com/site/feldhellclub">sites.google.com/site/feldhellclub</a>
19	2130	19 2230	7	Argentina National 7 MHz Contest	Ph	RS, 2-digit year first licensed	<a href="http://lu4aa.org/wp/concurso-nacional-40m">lu4aa.org/wp/concurso-nacional-40m</a>
20	0000	20 0200	14-21	Asia-Pacific Fall Sprint, CW	CW	RST, serial	<a href="http://jsfc.org/apsprint/aprule.txt">jsfc.org/apsprint/aprule.txt</a>
20	0700	20 1000	144	UBA ON Contest, 2 Meters	CW Ph	RST, serial, ON section (if ON)	<a href="http://uba.be/en/hf/contest-rules">uba.be/en/hf/contest-rules</a>
20	1700	21 0100	1.8-144	Illinois QSO Party	Ph	RS(T), county or SPC	<a href="http://www.w9awe.org/ILQP.html">www.w9awe.org/ILQP.html</a>
20	1900	20 2030	3.5	RSGB RoLo CW	CW	RST, previous 6-char grid square received	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
21	0100	21 0300	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or power	<a href="http://qrpcontest.com/pigrun">qrpcontest.com/pigrun</a>
21	1300	25 2359	All	ARRL School Club Roundup	CW Ph Dig	RS(T), class (I/C/S), SPC	<a href="http://www.arrl.org/school-club-roundup">www.arrl.org/school-club-roundup</a>
21	1800	22 0300	1.8-UHF	Telephone Pioneers QSO Party	CW Ph Dig	RS(T), chapter number (if any), name	<a href="http://www.tpqso.com">www.tpqso.com</a>
23	0000	23 0200	1.8-28	SKCC Sprint	CW	RST, SPC, name, mbr or power	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
23	1900	23 2030	3.5	RSGB 80-Meter Autumn Series, Data	Dig	Other station's call, your call, serial, name	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
26	0000	27 2359	1.8-28	CQ Worldwide DX Contest, SSB	Ph	RS, CQ zone	<a href="http://www.cqww.com">www.cqww.com</a>
30	2000	30 2100	3.5	UKEICC 80-Meter Contest	CW	4-char grid square	<a href="http://www.ukeicc.com">www.ukeicc.com</a>
31	1900	31 2030	3.5	RSGB 80-Meter Autumn Series, SSB	Ph	Other station's call, your call, serial, name	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>

All dates refer to UTC and may be different from calendar dates in North America. Contests are not conducted on the 60-, 30-, 17-, or 12-meter bands. Mbr = Membership number. Serial = Sequential number of the contact. SPC = State, Province, DXCC Entity. XE = Mexican state. Listings in blue indicate contests sponsored by ARRL or NCJ. The latest time to make a valid contest QSO is the minute listed in the "Finish Time" column. Data for Contest Corral is maintained on the *WA7BNM Contest Calendar* at [www.contestcalendar.com](http://www.contestcalendar.com) and is extracted for publication in QST 2 months prior to the month of the contest. ARRL gratefully acknowledges the support of Bruce Horn, WA7BNM, in providing this service.





### SCRA Merchandise QST

The limited edition SCRA 80th Anniversary Lapel Pins are available at \$5 each. These stylish 1.25" lapel pins feature our full color 80th Anniversary logo with an epoxy dome finish and a military/ butterfly clutch back to secure the pin in place.

They not only look good on a lapel, but they'll give your hats, sweaters, jackets and tote bags that SCRA touch.



The SCRA/Halls webstore is on-the-air! Just tune your internet device to the website hosted by Halls Executive Gifts and Awards (AKA Frederick Engraving) at <http://scra.hallsapparel.com>.

This time, when you order a shirt, in the style, color and size of your choice, it will be available for pickup within a couple of weeks. And now you also have the option to either pick it up from Halls yourself or pick it up at a future membership meeting.

Most members have found that the shirt sizes fit as expected, but if you tend to run in between sizes, we recommend the larger size.



Please email any questions and comments to [merchandise@sonomacountyradioamateurs.m](mailto:merchandise@sonomacountyradioamateurs.m).

### SCRA Membership QST

The SCRA membership stands at 219.



Welcome new and returning members:

- Michael Casteel KN6DJN (T) Santa Rosa
- Hugh Black Associate Santa Rosa
- Richard Stapenhorst Associate Cotati



New call signs:

- Rick Cowperthwaite AJ6LT



License Class Upgrades:

- Rick Cowperthwaite AJ6LT – Amateur Extra

If you have recently achieved a new license class, obtained a new call sign, or changed your address, email or phone, please email [membership@sonomacountyradioamateurs.com](mailto:membership@sonomacountyradioamateurs.com) with your update. And don't forget to report your address change to the FCC!

Membership Count by License Class	
License Class	Count
Advanced	3
Amateur Extra	70
General	60
Technician	75

We have eleven Associate members.



### Ooh, ooh, I have a Question!

From the NEW 2019 -2023 General Class Question Pool:

G2E13 (A)

Which communication system sometimes uses the internet to transfer messages?

- A. Winlink
- B. RTTY
- C. ARES
- D. SKYWARN

### And What About This?

From the Extra Class Question Pool:

E2C06 (C)

During a VHF/UHF contest, in which band segment would you expect to find the highest level of activity?

- A. At the top of each band, usually in a segment reserved for contests
- B. In the middle of each band, usually on the national calling frequency
- C. In the weak signal segment of the band, with most of the activity near the calling frequency
- D. In the middle of the band, usually 25 kHz above the national calling frequency

### New General Class Question Pool Goes Into Effect July 1, 2019.

The new question pool for the General Class Exam has gone into effect. You can find it at <http://www.arrl.org/general-question-pool>.

## The 2019 SCRA Board of Directors Election

**Wednesday, November 6th**

Become a Candidate for Officer

**President** ✨ **Vice President**

**Secretary** ✨ **Treasurer**

or either of the two

✨ **Directors** ✨



Please consider serving the club in this rewarding capacity.



### Mentors

Having a problem with your equipment? Can't get the SWR down or your radio won't tune up? Notice some smoke escaping from your transceiver? You may need some help but where to go for this help. You could come to the club meetings and talk to people to see if they can help. You're bound to find someone to help you.

Help can also be found at the SCRA web site ([sonomacountyradioamateurs.com](http://sonomacountyradioamateurs.com)). Just log in and click on the Member Area and then click on Mentors. Here you will find a list of hams that are willing to help out so you can your problem solved and get back on the air.

Cornell, W6HMN



*...Summits on the Air continued from page 1...*

My SWR was still close to 1:1, but I was running out of battery and my power had dropped from its normal 10 watts to only 5. I wasn't optimistic.

I opened my logbook and began calling CQ again. This time a call came back almost right away. "DJ" something...did I hear that right?! I sent a question mark and his call came back again. DJ5AV, that means Germany! How cool to work Europe, even from the East coast! We had a nice, brief exchange and then I called QRZ. This time there was a small pileup, but one call stood out that I recognized as being a well-known chaser. I couldn't believe my ears: ZL1BYZ. John in New Zealand could hear my 5 watts! He only gave me a 319 signal report, but I had him at 559 and we completed our exchange easily.



contacts total, the rest from around the US: Maine to New Mexico to Washington state.

This was the last day of our vacation. The next day we'd be driving down out of the mountains to Raleigh for our flight home. Over the previous three days, I'd activated seven summits along the Blue Ridge Parkway and done over ten miles of hiking. I'd made VHF contacts with other activators on summits in Tennessee and North Carolina, and had worked stations across the country on 20, 30, and 40 meters CW. But that evening I had spent twenty minutes in bitter dread that I was going to have a failed activation, and then twenty minutes elated that my 5 watts was reaching around the world.

This roller coaster of emotion -- the ups and downs of contesting -- mirrors the mountain trails that take us to the summits. No matter how long you've been on the air, having something work when you didn't expect it to, making a contact you thought was impossible, is still exhilarating.



Within ten minutes I had made the four contacts I needed to receive ten points for activating this summit. One of them was another European contact, this time from Italy. My battery seemed to be holding out so I operated for another ten minutes and gathered eleven



## Sonoma County Radio Amateurs Membership Meeting Minutes Date: September 4, 2019

Call to order: John KE5RI called the meeting to order at 7:00 PM.

The president, John KE5RI, determined that a quorum is present.

Board members present: John KE5RI, Fred AE6SF, Iola KK6HRE, Randy AA6RH, Doug KF6LMB, Bill KM6BYD

Absent: none

New members: Wendy KN6DON, Fred KN6DJO, Mike KN6DJN

Guests: Hugh, Clayton, Greg WB6UHH, Alan, Ginger WB7AQO, Rick WB7APG, Mark KN6CWX, Wayne

John asked if new members would like to compete for a radio and to be net control. Some did.

**NET CONTROL:** The following members are the net control stations for

Sep 10 – Carlos KN6AWG (received the 2M radio from John KE5RI)

Sep 17 – Iola KK6HRE

Sep 24 – Fred AE6SF

Oct 1 – Ken N4NTJ

Announcements etc: Iola KK6HRE updated us on Aaron Marroquin KK6ZDB. Doug went with Charlie north of Pillsbury Lake and worked 55 miles on 2M using an HT at 5W. Jay W6LZJ used the Kenwood TS440 he got at the auction and talked to Hawaii on 10M during the Tuesday 10M net. Erin K6ERI was in North Carolina and worked Germany, New Zealand and Italy on 20M from a mountaintop.

Program: Tubbs and Camp Fires - Phones, Fires and Failures by Alan Thompson W6WN  
This program focused on the communications failures that placed people's lives at risk during the fires, the vulnerability we all face in our modern day over-reliance on cell phones and the Internet, and the role of ham radio clubs.

### BREAK

Ham of the Month: Scott KJ6QIQ was named but was not present for the awarding.

MiniDX – We discussed alternates for locations and for future events: Spring Lake day camp. Stampede Reservoir.

Approval of minutes: Doug KF6LMB moved, and Dan KK6VIQ seconded approval of the minutes, and they were approved by voice vote.

### REPORTS

Treasurer report: Iola KK6HRE reported our income and expenses from last month.

Community outreach: Darryl KI6MSP noted that 9/28-29 is Wings over Wine Country, and signup will be on the website this week. At the Petaluma Library this Saturday from 4-5, there will be a presentation by NASA on returning to the moon. The Bay Area Science Festival signup will be up on the website this week also.

Education: Cornell W6HMN noted this Saturday at 9:30 there will be a class on how to program your HT radio. October 11-13 are the dates for the next Technician class.

Field Day: Brian N6IY will be asking about Winter Field Day soon.

Merchandise: Dan KK6VIQ is waiting for Halls and the board meeting before rolling out the next purchase opportunity.

***Continued on page 11...***

...Minutes continued from page 10

Membership: Dan KK6VIQ: We have 218 members as of tonight

Repeater: Jack K6ROW asked if anyone had issues, and none were reported.

DX Team: Doug KF6LMB said those who have attended are interested in coming to a future miniDX event.

VE testing: Brian N6IY said that September 14 is the next session.

Public Service: Iola KK6HRE reported that the next event is Waves to Wine and it is an opportunity for shadows. Levi's GranFondo is next and Kenn N4NTJ is looking for more help especially SAGs. A member asked for more information like what is a SAG.

80th anniversary committee: Iola KK6HRE: We had 35 people at the Spring Lake picnic. The first winner of the foxhunt was Cornell W6HMN.

**NEW BUSINESS** - none

The meeting adjourned at 9:15 as Fred AE6SF moved, and many seconded the motion to adjourn.

Respectfully Submitted,  
Bill Dornbush KM6BYD

SCRA HAM OF THE MONTH RECIPIENTS			
Year	Month	Name	Call Sign
2019	Aug/Sept	Scott	KJ6QIQ
2019	June/July	Carol	KK6OLL
2019	May	Randy	AA6RH
2019	Apr	John	WB6FRZ
2019	Mar	Erin	K6ERI
2019	Feb	Fred	AE6SF
2019	Jan	Dave	KI6UGB
2018	Dec	-	-
2018	Nov	Iola	KK6HRE
2018	Oct	Dan	KK6VIQ

**Silent Key  
Ibrahim Sial K2IBE**

“This is Ibrahim's wife, Ali, writing to update you all. This summer Ibrahim and I traveled to visit family in Washington and he passed away while we were there. I am just now going through his email and gathered your addresses from some of his HAM radio emails. ....” -Ali



Ibrahim manning the Tech Bench, Field Day 2019 (orange shirt)



## SCRA BOARD OF DIRECTORS MEETING MINUTES

Date: September 11, 2019

The meeting was called to order by John Felton KE5RI at 6 pm. A quorum was present.

Board members present: John Felton KE5RI, Bill Dornbush KM6BYD, Iola Beckley KK6HRE, Doug Payne KF6LMB

Absent: Fred Seitel AE6SF, Randy Hall AA6RH

Others: Darryl Paule KI6MSP, Cornell Chesnik W6HMN, Dan Drummond KK6VIQ, Brian Torr N6IYY, Pat Coyle KG6JSL, Mike Von der Porten AD6YB, John Breckenridge WB6FRZ, Philip Humes KF6GNH

Approval of previous meeting minutes: Iola KK6HRE moved the minutes be approved, and Bill KM6BYD seconded the motion. All approved by voice vote.

### OFFICER AND DIRECTOR REPORTS

**Treasurer report:** Iola KK6HRE reported our financial status in our bank account.

### COMMITTEE REPORTS

**Activities** – Darryl KI6MSP reported we have opportunities to go to the USS Hornet, and Nasa Ames radio club.

**Community Outreach** – Darryl KI6MSP reported we have the Air Show on September 28-29, and we expect 8 people to staff our booth. October 2 or 3 is an ARISS contact with the Sonoma County Library and he expects media coverage. October 26 is the Bay Area Science Festival with new demonstrations. John KE5RI indicated that insurance requirements doubled in cost. We discussed if it is worth it to fund this in the future with no conclusion reached.

**Membership** – Dan KK6VIQ reported 218 members

**Public Service** – Iola KK6HRE reported the next two events are Waves to Wine then Levi's GranFondo. We need SAGs for these events.

**Merchandise** – Dan KK6VIQ has not heard back from Halls on the caps to be sold.

**Education** – Cornell W6HMN reported we had a class last weekend on programming an HT and it was well received. We will repeat next year. The next Technician class is Oct

11-13, with at least 5 who have bought books and about a dozen reporting interest. John WB6FRZ noted that he has been approached by people wanting mentoring on General and Code, and suggested that Cornell coordinate matching mentors with mentees based on the interest area. John suggested for next year, we need a mentoring chair. Iola KK6HRE suggested we schedule twice a year advancement classes for General and Amateur Extra.

**Em Comm** – Pat KG6JSL had no report.

**Field Day** – Brian N6IYY was not present.

**Programs** – Randy AA6RH was not present.

**Website** – Dave KI6UGB was not present.

**Refreshments** – No Report

**Repeater** – No report

**Radio Loanout program** – No report

**80th Anniversary Committee** – Iola KK6HRE reported that the last event is the holiday dinner. Randy AA6RH has students working on a history presentation.

### UNFINISHED BUSINESS –

**Philanthropic endeavors** – Bill KM6BYD reported the status from the "Scholarship committee." They discussed:

Goals: Get more youth involved in our club and amateur radio, and to get more participation in activities such as public service.

Strategies could be to offer a scholarship, to offer STEM programs in schools. Iola notes that school district approval might be needed to begin a new program. Mike AD6YB noted that it might be better to approach a school first. Another strategy would be more offerings at fairs like North Bay Science Discovery Day, and Family Expo and Camping Fair. We could also be involved in outer public venues.

Tactics could include developing and/or funding school amateur radio stations and clubs; Present a ham radio youth expo or bootcamp program; Include a GOTA station to get student to experience either HF or DMR/analog voice on VHF/UHF; Kit building but we need to be mindful of liability issues with hot items.

Research will include interviewing college amateur radio clubs and those who attend our classes.

*Continued on page 13...*

...BoD Minutes continued from page 12

## JOTA

Bill asked the board to endorse the committee to continue to work. We discussed the possibility to change the Bylaws to support a scholarship and deferred that action. We agreed to continue the committee and move forward to present additional ideas.

DMR status – John KE5RI noted that we need to get our DMR repeater call sign and registration updated.

Nominating Committee – Dan KK6VIQ asked if the current people at this meeting would note if they would be interested in continuing or changing positions, and passed around a signup list. He will be putting together a list based on what has happened this year at club meetings, and will review with Fred AE6SF.

### NEW BUSINESS

John WB6FRZ presented a possible tent that would work at field day especially for the digital station. He showed a tent that he bought a few years ago that cost about \$300 and he would provide to the club for \$200. Doug noted that the tent would replace an easy-up. Darryl noted that a tent would discourage people from seeing what is happening at a station. Cornell noted that we have a tent for CW with the door open so people can look in and see what is happening. Mike noted that we need signage to invite people to visit. John KE5RI moved that the club purchase the tent for \$200, and Iola KK6HRE seconded and the motion passed.

Doug KF6LMB said that Frank Oddy NQ6E needs someone to take his place presenting the Contest Corral in Short Skip. John KE5RI suggested a posting in Short Skip. Pat KG6JSL noted that we should post “help wanted” for other positions. Iola KK6HRE suggested we ask the Nominating Committee to develop this.

Meeting ended at 7:00 pm. John KE5RI moved that we adjourn, and Doug KF6LMB seconded the motion and the motion carried unanimously on voice vote.



JOTA (Jamboree on the Air) is an annual Global Scouting event bringing Boy and Girl Scouts from all over the world together on Amateur Radio.

The event takes place on the 3rd weekend in October. This year it starts the evening of Friday, Oct 18 and lasts until the afternoon of Sunday Oct 20.

Guidelines for Radio operators can be found here-> <https://www.scouting.org/jota/operators-guides/>

There are some basic rules that should be followed:

All radio operators must operate their stations strictly in accordance with their national licensing regulations;

Stations should call “CQ Jamboree” or answer Scout stations calling to establish a contact;

Any authorized frequency may be used. It is recommended that stations use the agreed World Scout Calling Frequencies listed below as starting points. To avoid congestion, other frequencies close by should be used as well.

The listed frequencies are “calling frequencies.” After you make contact with a station, ideally you’ll QSY (move) to another frequency and leave the calling frequency open for others to establish contact.

See <https://www.scouting.org/jota/operators-guides/>) for more information and the frequencies referred to above.

Additionally JOTI (Jamboree on the Internet) runs concurrently as a Global chat room for Scouts. For more info on JOTI visit <https://www.scouting.org/joti/>

Locally the Club will be working with Scouts USA to put on access points at the Graton Fire Station on Saturday Oct. 19th from 9am to 4pm.

Activities to include:

Radio Theory class covering the Scouts USA Radio Merit Badge and the radio portions of the Girl Scouts Radio & Wireless Technology Patch Program

HF stations

JOTI laptop stations

ARDF (Amateur Radio Direction Finding) or Foxhunt

Contact Dave Kraybill ([dave@kraybill.org](mailto:dave@kraybill.org)) for more info.

**ARISS**  
**Amateur Radio on the International Space**  
**Station**  
**Press Release**

ARISS, or Amateur Radio on the International Space Station (ISS), was formed to design, build and operate Amateur Radio equipment in space for educational purposes.

Amateur Radio was a regular payload on Shuttle missions beginning with the STS-9 mission in November 1983, when Owen Garriott, W5LFL, carried a hand-held ham radio aboard Space Shuttle Columbia.

The Shuttle Amateur Radio Experiment (SAREX) provided students with the unique opportunity to talk directly with astronauts in the Shuttle while they orbited the Earth traveling 17,000 miles per hour. In 1996, delegates from major national Amateur Radio organizations, such as ARRL, and from national Amateur Radio satellite organizations, such as AMSAT, in the eight nations involved with the international space station, signed a Memorandum of Understanding to form ARISS.

What is Amateur Radio?

Amateur Radio (ham radio) is a popular hobby and service that brings people, electronics and communication together. People use ham radio to talk across town, around the world, or even into space, all without the Internet or cell phones. It's fun, social, educational, and can be a lifeline during times of need. Sonoma County Radio Amateurs is the sponsoring amateur radio club for this ARISS contact. There will be an ARISS contact on Tue 2019-10-01 19:53:13 UTC 82 deg.

The location is Sonoma County Library 211 E Street, Santa Rosa, CA 95404

Students from Ami Catz's science class, from Santa Rosa Middle school, will have questions for Astronaut.....

This is a once-in-a-lifetime opportunity for these students to participate with the ISS. The Science Technology Engineering Math, STEM program is an important part of the ARISS program.

Contact information:

Darryl Paule  
 KI6MSP  
 Ki6msp@gmail.com  
 707 544-8874

Brook Haven School ARISS contact on youtube:  
[brookhavenariss](https://www.youtube.com/channel/UCBkHvE8v8v8v8v8v8v8v8v8)





# How Loud Is That Generator?

## Rainier R2200i vs. Honda EU2000i

By Fred Seitel AE6SF

Recently Pat KG6JSL, Brian N6IYY and I (Fred AE6SF) tested two older Honda EU2000i generators and one newer Rainier R2200i generator to compare sound levels (or noise levels depending upon your perspective). The Honda EU2000i (and now its successor EU2200i) is the ham gold standard for 2 kW class inverter generators. But for literally one-third the cost of a new Honda, I obtained the Rainier R2200i at the probable expense of additional noise. How much additional, I wondered?

### Short Answer

At 1450 W, the Rainier R2200i is louder by about 5 dB on the exhaust end (the loudest side) and 3 dB averaged around all four sides, compared to the Honda EU2000i. At 920 W, the exhaust end is only about 1 dB louder.

### Long Answer

The manufacturers state the following sound levels:

- Honda EU2000i      53/59 dB(A) at 25%/100% load
- Rainier R2200i      Operational volume as low as 52 dB(A)
- Honda EU2200i      48/57 dB(A) at 25%/100% load

We did not test an EU2200i.

There is no industry standardization in testing and publishing generator sound levels. Honda is specific, stating “Tested in accordance with ISO 9614-2, sound pressure level calculated at 23 Feet (7 meters) using the front plane of the generator (control panel side) per ASHRAE Handbook 2017.” We used Honda’s test configuration as our guide except we measured sound pressure levels from all four sides of each generator at 23 feet since the control panel side generally is not the loudest.

The test site was the open lawn area at Youth Community Park in Santa Rosa, California. A generator was placed at the edge of a portable table, and an Extech 407706 analog sound level meter was placed 23 feet away, elevated with a tripod (see Figure 1). Test equipment and loads were located farther away. A live camera (not shown) allowed remote viewing of the sound level meter which used the A scale and Slow setting (see Figure 2). We placed the same resistive load levels (within +/- 1%) on each generator, namely 0 W (0%), 920 W (58%), and 1450 W (91%), where 100% = 1600 W. The generators were operated in Eco mode. At close to 1500 W, both Honda generators experienced minor oscillations in voltage and engine rpm, so we tested at 1450 W where operation was stable. The loads consisted of an electric ceramic heater (1500 W nominal with low and high settings) and for fine tuning, a 500 W quartz halogen lamp fed through a Variac 5A autotransformer. A utility-grade induction-disk power meter measured power averaged over about 45 seconds (see Figure 3), and a true-RMS voltmeter (Agilent

U1241A DMM) measured generator output voltage (not shown). A calculation accounted for losses in the 106 feet of power cable that fed the power meter and loads.



Figure 1. Generator and sound level meter.



Figure 2. Analog sound level meter showing 60 dB(A).



Figure 3. Power meter and ceramic heater.

The sound level meter has not been calibrated recently so the resulting sound power levels in dB(A) may not be accurate in an absolute sense but are still useful for a relative comparison.



Fig. 5A Rainier R2200i



Fig. 5B Honda EU2000i



Generator sound level and voltage measurements are shown in Figure 4.

Figure 4 Generator Sound Level and Voltage Measurements (2019-09-08)

KEY					Side	Honda EU2000i	Rainier R2200i	Top View
ID	HAM	MAKE	MODEL	YEAR				
GEN1	KG6JSL	HONDA	EU2000i	2010	A	FRONT	FRONT	D <input type="checkbox"/> B A C
GEN2	N6IYY	HONDA	EU2000i	2008	B	RT. SIDE	EXHAUST	
GEN3	AE6SF	RAINIER	R2200i	2019	C	EXHAUST	REAR	
					D	LT. SIDE	INTAKE	

SOUND PRESSURE LEVEL (SPL) AT 23 FEET [dB(A)]

	EXHAUST END			FRONT PANEL		
POWER:	0 W	920 W	1450 W	0 W	920 W	1450 W
GEN1	59	64	66	55	58	62
GEN2	58	64	65	55	59	61
GEN3	60	65	70	55	61	64

SPL AND SPATIAL AVERAGE [dB(A)]

1450 W	GEN1	GEN2	GEN3
A	62	61	64
B	64	63	70
C	66	65	64
D	62	63	64
LOG-AVG:	63.8	63.2	66.4

920 W	GEN1	GEN2	GEN3
A	58	59	61
B	62	60	65
C	64	64	61
D	61	62	61
LOG-AVG:	61.8	61.7	62.4

0 W	GEN1	GEN2	GEN3
A	55	55	55
B	55	56	60
C	59	58	56
D	55	56	56
LOG-AVG:	56.4	56.4	57.2

If the exhaust 70 dB(A) were reduced to 66 dB(A) via attenuation, then DELTA would be 1.1 dB.

Honda GEN1&2: 63.5      Rainier GEN3: 66.4      DELTA: 2.9 dB

Calculated values (typical).

GEN1&2: 61.7      GEN3: 62.4      DELTA: 0.7 dB

Readings of 55 dB(A) are actually less than or equal to 55 dB(A).

GEN1&2: 56.4      GEN3: 57.2      DELTA: 0.8 dB

VOLTAGE AT GENERATOR (NOT LOAD) [V]

LOAD	GEN1	GEN2	GEN3
0 W	126.7	123.8	122.8
920 W	124.1	121.6	121.8
1450 W	120.1	120.9	120.9
DELTA:	-6.6	-2.9	-1.9

NOTES

1. The sound level meter has not been calibrated recently.
2. The 70 dB(A) reading was taken on a separate scale and might read slightly high.
3. LOG-AVG = 10 x LOG( [ 10^(A/10) + 10^(B/10) + 10^(C/10) + 10^(D/10) ] / 4 )



## What do these numbers mean?

For reference, and these are rough guidelines, 1-3 dB is the smallest change that human hearing can perceive, while 10 dB is perceived as a doubling or halving of loudness.

The exhaust side of the generator is louder than the control panel side.

The Honda generators are quieter than the Rainier generator by about 2.9 dB overall spatial average at 1450 W. Comparing the exhaust ends only, the Rainier generator was about 5 dB louder at 1450 W, and 1 dB louder at 920 W.

The two Honda generators were very close in measured sound levels, as would be expected for the same model. However, their voltage regulation from zero load to 1450 W load surprisingly differed with one showing a 6.6 V output drop and the other a 2.9 V drop, whereas the Rainier had a 1.9 V drop.

The national park service references a noise standard in Wilderness Act 36 CFR Section 2.12 Audio Disturbance. To paraphrase, motor-driven equipment should not exceed a sound level of 60 dB(A) at 50 feet, and even so, should not make noise that is unreasonable. The sound pressure level from a point source over a hard surface decreases (in theory) by about 6 dB per doubling of distance. Thus, an increase to 50 feet from 23 feet is a change of -6.7 dB. If the test data is reasonably accurate, it appears that the Honda generators meet the noise standard, but the Rainier generator meets it only at reduced power (e.g. at 920 W). For example, at 1450 W and 70 dB(A), the Rainier would measure 63.3 dB(A) at 50 feet, exceeding the standard. Note that in some campgrounds, campsites are spaced closer than 50 feet.

Caltrans states in its Traffic Noise Analysis Protocol: "If two people are speaking, 67 dBA is the approximate noise level at which human speech is interfered with." At 23 feet, the Honda doesn't appear to be a problem. The exhaust end of the Rainier generator is a problem unless operated at half power or less.

## Other Considerations

Honda pioneered the sine-wave inverter portable generator in 1998, has a global repair network, and provides a three-year warranty. Rainier Outdoor Power Equipment came into existence in 2018, has no network for replacement parts and accessories, and provides a one-year residential warranty. Feel lucky?

## Conclusion

The Rainier R2200i inverter generator is a good value although longevity is unproven. The test results suggest that only the exhaust end of the generator needs noise attenuation to compete well with the Honda EU2000i generator and to meet the national park service standard. Going forward, the newer Honda EU2200i promises to be the quietest yet.



**Sonoma County Radio Amateurs, Inc.  
PO Box 116, Santa Rosa, CA 95402**

(Please print & fill out the form and mail it in with your check payable to SCRA.)  
(Please check all  that apply)

Date: \_\_\_\_\_ New Member:  Renewal:   
 1) Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_ License Class: \_\_\_\_\_  
 Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Cell Phone: \_\_\_\_\_ Home Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_ Show contact info in Roster:   
 ARRL Member:

**SCRA Dues:** The renewal date for SCRA dues is January 1st. Dues are \$20/year for individual, \$30/year for families, and \$15/year for youth (under 18).

**\* Prorated Dues for New Members Only:** Reduced dues after the 1st quarter.  
 2<sup>nd</sup> Quarter April–June: \$5.00 off — 3<sup>rd</sup> Quarter July–September: \$10.00 off  
 4<sup>th</sup> Quarter October–December: Pay the yearly dues for next year and get the rest of this year free.

**Family Membership Members:**

2) Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_ License Class: \_\_\_\_\_  
 Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Cell Phone: \_\_\_\_\_ Home Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_ Show contact info in Roster:   
 ARRL Member:

3) Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_ License Class: \_\_\_\_\_  
 Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Cell Phone: \_\_\_\_\_ Home Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_ Show contact info in Roster:   
 ARRL Member:

4) Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_ License Class: \_\_\_\_\_  
 Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Cell Phone: \_\_\_\_\_ Home Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_ Show contact info in Roster:   
 ARRL Member:

I would like more information about:

- |  |   |
|--|---|
| <input type="checkbox"/> a) Public Service Events                        | <input type="checkbox"/> f) Training Classes      |
| <input type="checkbox"/> b) Field Day (4 <sup>th</sup> Saturday in June) | <input type="checkbox"/> g) VE License Exams      |
| <input type="checkbox"/> c) Contesting & DXing                           | <input type="checkbox"/> h) Field Trips           |
| <input type="checkbox"/> d) Emergency Services                           | <input type="checkbox"/> i) Short Skip Newsletter |
| <input type="checkbox"/> e) SCRA Net Control                             | <input type="checkbox"/> j) SCRA Committees       |
| <input type="checkbox"/> f) SCRA Loaner Radio Program                    | <input type="checkbox"/> k) Other _____           |

**SCRA Dues:** Individual \$20, Family \$30, Youth (under 18) \$15 (\*see Pro-Rated Dues above) \$ \_\_\_\_\_

**Name Badge:** \$10 each Please circle clasp type, either Clip or Magnet. \$ \_\_\_\_\_

1) Call Sign: _____	First Name: _____	City: _____	Clip or Magnet
2) Call Sign: _____	First Name: _____	City: _____	Clip or Magnet
3) Call Sign: _____	First Name: _____	City: _____	Clip or Magnet
4) Call Sign: _____	First Name: _____	City: _____	Clip or Magnet

SCRA Logo Patch: \$5 each \$ \_\_\_\_\_  
 SCRA Logo Decal: \$2 each \$ \_\_\_\_\_

Please make check payable to SCRA. Total Amount Due: \$ \_\_\_\_\_



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## SHORT SKIP ARCHIVES AVAILABLE

Mike, AD6YB, has set up archives for past and present issues of Short Skip. They are available on the Website, log into Members Area, Short Skip, click on the first sentence. Mike has scanned in the old paper issues and it is really interesting to browse through them to see what those guys were doing. There are historical photos as well. An important record of our history and ham radio in general. Good Stuff.

[\(Click Me\)](#)

## DIDN'T FIND WHAT YOU NEEDED?

If you are looking for something more on a topic or your topic of interest hasn't been covered lately, let us know. Something you'd like to see in Short Skip?

Contact the editor, [shortskipeditor@gmail.com](mailto:shortskipeditor@gmail.com) or for general questions and /or suggestions, [k6son@arrl.net](mailto:k6son@arrl.net)

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## SHORT SKIP NEEDS YOUR INPUT

### SHORT SKIP ARTICLES WANTED

Dave, KI6UGB, our Short Skip editor is always looking for articles of interest. They can be technical, a good (or bad) experience that other members may learn from, hints or kinks that worked for you in solving a problem, or just about anything ham radio related. Send your contributions to Dave at [shortskipeditor@gmail.com](mailto:shortskipeditor@gmail.com)

