



**Publication of the
Northern California
Contest Club**



Issue 545

October 2017



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President's Report

Hello KB'ers and welcome to another season of contesting.

The 2017 California QSO Party has come and gone and I think we can all agree that it's been another successful one.

As I write this, I'm looking at our fabulous CQP website, authored by John, K6MM, and see that a total of 899 logs have been submitted. Someday, we'll hit that 1000 log goal, but 899 is still a respectable number. Thanks go out to John, and Bob, N6TV, for once again making it happen. We all need to also thank Tom, NS6T, and the log checkers. We couldn't do it without you guys!

This CQP was my first in 8 years without my contesting partner Martin, AA1ON, who has come out here faithfully from Massachusetts year after year. Seems he has some problems with the station antennas and needed to get everything running prior to CQWW (I see he did 2M+ in CW, so I guess he got the job done!). Without Martin here, I decided to do Saturday as a last minute expedition to Glenn County. I grabbed one of my retired FT-1000MP's, a SB-200 amplifier and a TA33JR beam and made the 3 hour drive to my operating location in Glenn County. That location was a minimum security prison with a glorious view at about the 4,500 foot level in the Mendocino National Forrest. It was a beautiful day – just two days prior to the devastating fires just south of my location. I set the gear up on the tailgate of my truck and called CQ. I'll have more in a future Jug article.

Tuesday, November 14th

Program

“Contesting Take-Aways From Aruba”
by Ed, WØYK

Time: 6:00am Social ; 6:30pm Dinner,
7:00pm Program

Location: Tied House Brewery 954 Villa
Street, Mountain View, CA 94041

Sign up using the Link at :
<http://nccc.cc/meetings.html>



Northern California Contest Club

Excellence In Amateur Radio Contesting

Officers:

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Webinars	<open>		
JUG Editor	Ian Parker	W6TCP	w6tcpian@gmail.com

Thursday Night Sprint:

The Northern California Contest Club sponsors Thursday evening (NA local time) contest practice sessions of 30 minute duration.

On the Thursday (and, sometimes Friday also) prior to a major contest weekend, the practice format follows the upcoming contest.

Generally, on other Thursday evenings, a special format is followed, called NS or "NCCC Sprint". The NS began in the summer of 2004 as a snappy, concise contest occurring most Thursday nights, North American time. The power limit is 100 watts.

Thursday Night Contesting Director and Founder	Bill, N6ZFO
NCCC CW Sprint	Tom, N3ZZ (initially, Ken N6RO)
NCCC RTTY Sprint	Ken, K6MR
NCCC Sprint Ladder	Bill, N6ZFO
Sprint Web master www.ncccsprint.com	John, K6MM.
non-NCCC:	Tim N3QE (Ladder Scores manager)
Thursday night Contesting Advisory Group:	N6ZFO, Bill (Chair)
	Mark K6UFO, (with W4NZ, N4AF, W9RE, K4BAI, N3BB and W0BH).
The Thursday night NCCC Net	Ken, N6RO



Where do we go from here? Chris, N6WM and our VP/Contest Chair, is hard at work on the contest plan for the club. You'll hear more about it at our November meeting on the 14th, at Tied House, in Mountain View. Chris, by the way, has a terrific article in this copy of the Jug on contesting for little pistols. Nice job, Chris!

There's an article in this month's Jug that was unsolicited and submitted to the El Dorado County ARC's newsletter from a fairly new ham who participated in his first contest ever...CQP. It's really well written, so be sure to read it. Several members of the El Dorado club submitted logs and for most, it was their first CQP. This club has been a breeding ground for many new contesters. The Mother Lode club generally recruits them and later they join NCCC. It doesn't get much better than that!

At least three of our fellow contesters and DX'ers lost their houses in the recent fires, including WW6D, WX6B, and KU6F. Our hearts go out to our friends and their families in the North Bay. I know our club and our members will be there for them as they rebuild their houses and their stations.

I may or may not make the November meeting. If not, it will be in good hands, with N6WM at the helm.

VP/CC Report

Christopher Tate, N6WM
N6WM@largeradio.org



VP/CC's Corner – November

Little Pistol Contesting – Having contest fun from the city lot

One of the biggest challenges of W6 contesting is trying to be competitive from the conservative city lot station. We don't enjoy the proximity to Europe that our east coast friends do. There, you can string up a dipole and fill up your log with European multipliers, or work the entire densely populated eastern seaboard on the low bands. Here... not so much.

But there are contests that one can, at a minimum have fun in here in the bay area region, and with some work and BIC be competitive in. Although I have access to 2 superstation class facilities, recently with a commitment packed weekend I thought I would try to work one of these from my house. After all, I am VP/CC of the NCCC, not of the NC Superstation Club. Knowing what our membership has to work with, our entire membership is important to me. I enjoy all aspects of contesting, and want to experience contest fun wherever and however I can!

What contests are doable from the west coast with a city lot? Domestic contests, like NAQP are a great example. All 3 modes. Also their NA Sprint counterparts, and the sprints let you run "smoke" if you have got it, and since no one can hold a run frequency it levels the field. I have had fun firing up on Sweepstakes on Sunday.. where you can run a pile up of desperate participants for hours. Then there also are "everyone can work everyone" contests. Or contests like WPX where prefixes are the mults!

I decided to do an experiment, just for fun with the Makrothen RTTY contest a couple weeks ago. Its a distance based contest and so by operating it, I can get real time feedback of just how well my home lab station does domestically, and map my results after the contest. With very low expectations at first.

My operating conditions:

Rig: Flex 6700 to a KPA500 amplifier- I decided to do this SO1V.

Antennas:

10/15/20 – Steppir Dipole, Chimney mounted at 30 ft

40/80- 5BTV garden mounted vertical, basically a 40m antenna with an 80M resonator on it.

(both antennas are paint matched to blend in with Krylon paint)

Lets look at some pics to get some perspective..



N6WM SteppIR dipole ~30ft showing up a bit more than usual at sunset.



N6WM garden stealth mounted 5BTV.. that Krylon paint works pretty good!

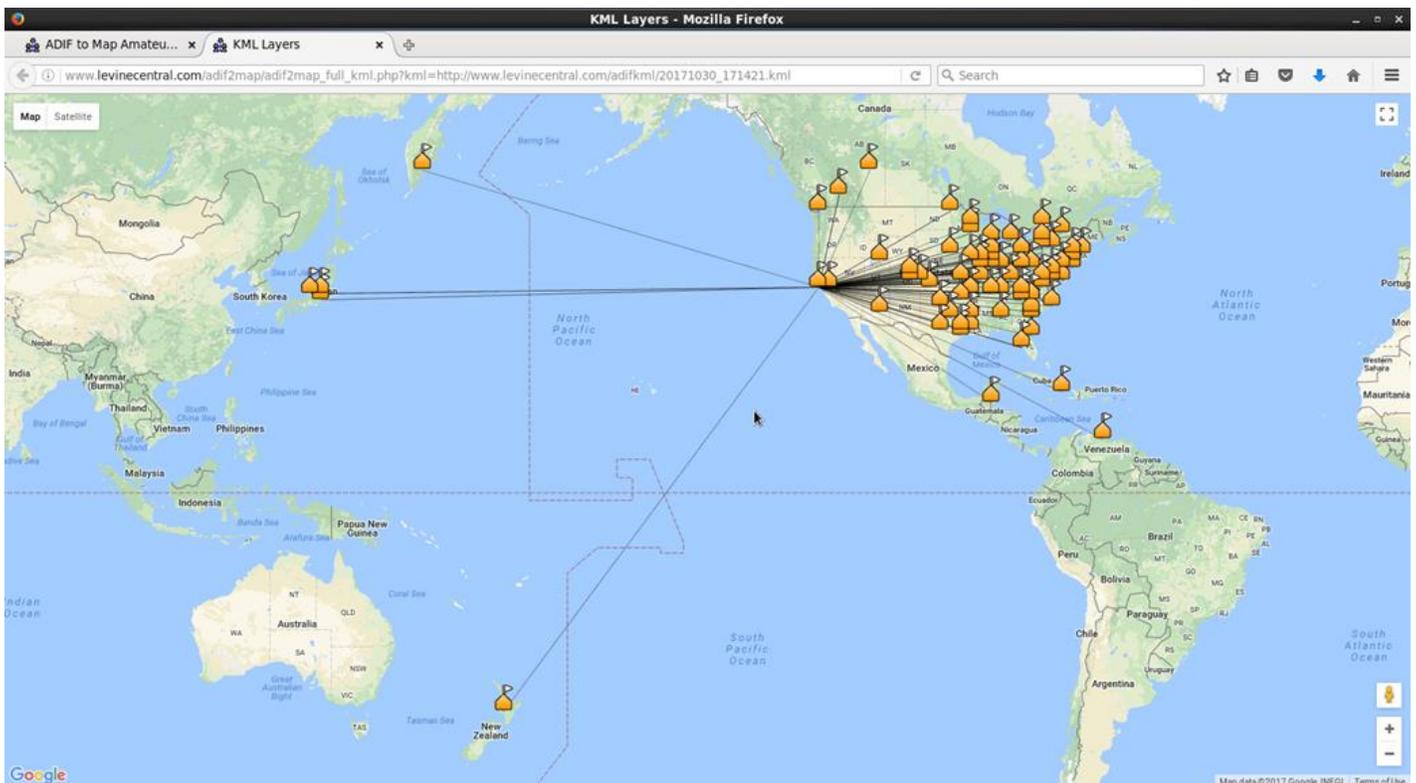
I think its safe to say this is an average or even sub average city lot setup that semi HOA friendly.

Now overall participation was not the best, but I was quite surprised that I was able to establish and hold run frequencies. I was also making the shot across the continent on 15-80m I operated the contest for several hours when I could. The scoring for this contest goes up quick, satisfying that urge for exponential increase. In the end I was QRV for around 4 hours total. After the fact, I initially was surprised of my ability to both hold a qrg and the grids I was working. Then I decided to map just how well the station was working with these OOB little pistol antennas...

In my 4 hours qrv, done in small segments, I was able to put 121 qso's in the log. But after I mapped out the qso's, a very clear picture started coming together of how a dipole and 5btv can play from a ground level neighborhood.

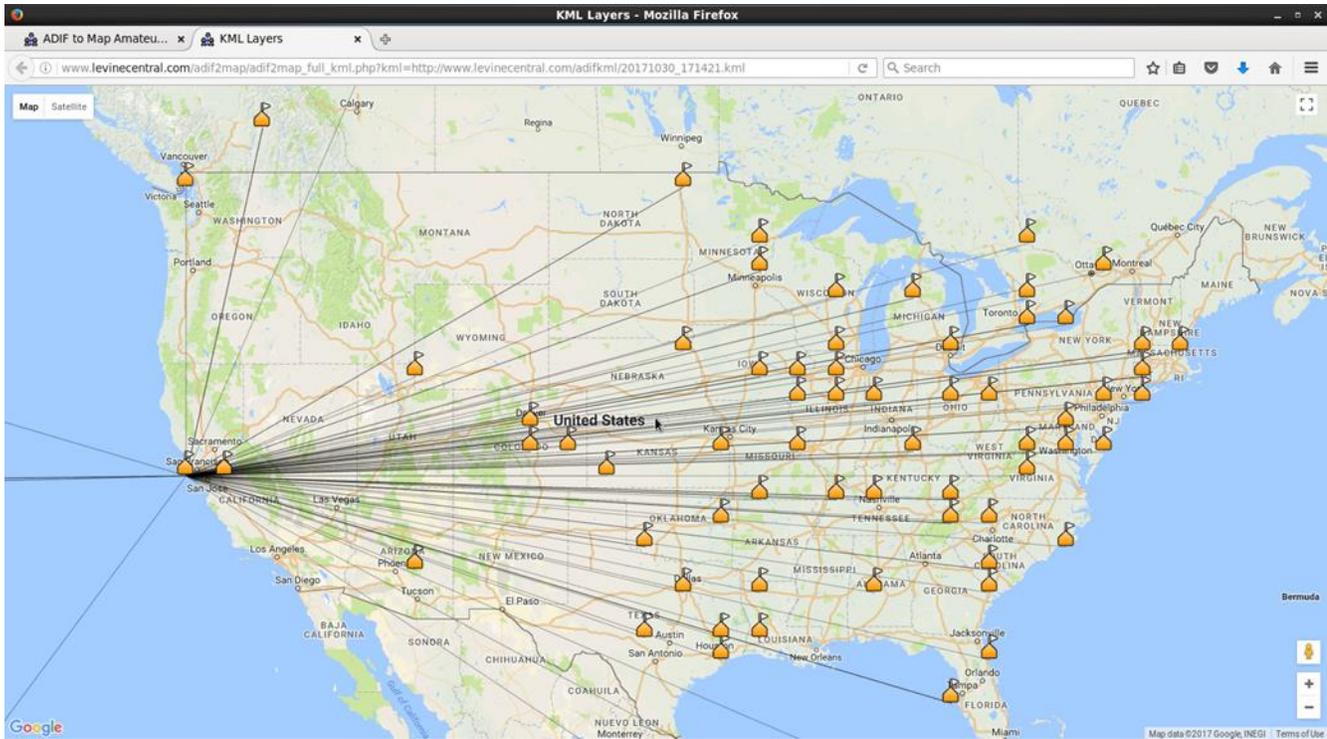
K2DSL has put up a great site that can map qso's as long as there are grid squares or gps coordinates in it. So I used it to plot my adif from the contest. The results were quite encouraging! (for those interested, his site is at <http://www.levinecentral.com/adif2map/>)

Lets take a look at 4 hours of Makrothen from la casa N6WM.. first a high level view



World view of mapped Makrothen QSO's

Now lets drill down to the domestic plot, and see what was going on there...



Domestic plot of qso locations.. this does not totally suck! We pretty much work exactly what would be expected based on the weekend propagation. A resonant Dipole and a vertical with decent radials are effective antennas.

What did I get out of this?

There are plenty of contests that are not only fun but fully engaging, and a number of them are focus contests for our KB competition. At a minimum its clear that with a very conservative station you can still have fun and contribute to our overall club efforts. So if you have limited resources, and working from little pistol stations, pick and choose carefully for the ones that can work for you, as there is plenty of fun to be had from any environment... even the city lot!

Until next time

73 es KB
Chris
N6WM
VP/CC

My First Amateur Radio Contest

By Aaron Tassin, W6CK

I remember all of my Amateur Radio Firsts. My first exam, my first radio – a Yaesu FT60 portable – my first QSO, my first net check-in, my first Ham Radio Club meeting, my first Field Day. Now I add to this list of Firsts, my first contest. I recently participated in the Northern California Contest Club's (NCCC), California QSO Party. Let me share my experience, as a first time contester, and some takeaways I learned over a 24 hour period.

I spent some time in the days leading up to the contest looking around the NCCC website and watching some YouTube videos on contesting. I'd seen others actively involved in contesting – at Field Day – but wanted to be as prepared as possible. This time was also spent setting the suggested starting frequencies and testing my HF antenna on the various bands. I signed up to represent El Dorado County as one of the published stations 'working' in this California County. With everything set, I waited for the first morning of the contest – October 7th, 2017. My First Contest!

Tuning in early I heard nothing. Early as usual, I waited as my Yaesu FT 450D was hissing. White noise, maybe a distant station in the noise, I couldn't be sure. 20 Meters would be my starting off point, for no better reason than I've been told daytime propagation is good there.

Then I heard the first, second, and subsequent calls rolling in just after 1600 UTC (0900 local). I listened at first as I sat, admittedly slightly nervous; this was going to be another one of my Amateur Radio Firsts. I tuned the VFO. My OCF Buckmaster multi-band dipole antenna was picking up "CQ, CQ, CQ Contest" and "Calling any station in California, CQ." It was time, time for W6CK to jump in. Just before 1653 UTC I repeated my call a few times in response to a call from K9ZO; Ralph Bellas Jr., from Stanford Illinois. I was his 46th contact in less than 53 minutes of contesting; he was contact number one for me...another Amateur Radio First!

"That was easy" I thought to myself. Ralph was friendly enough, and moved on quickly. Now 20 meters was cracking with QSO Party contesters. I made my second QSO with a station and an unfamiliar call sign prefix..."VE." I was his 95th contact and he was my second. VE3KZ? And did he say Ontario? I quickly checked QRZ.com; Robert Nash from Milton, Ontario, Canada. Wow, Canada! My first HF QSO out of the county! Another Amateur Radio First for me.

While I didn't work every minute of the California QSO Party, over the remainder of Saturday and into Sunday I would log a total of 70 contacts. 'Small Fries' compared to most everyone else, but I wasn't after a trophy. It was the experience of contesting I was really looking for. And I found it! It was a blast, and I can't wait to jump in again.

Here are a few takeaways I observed; points to remember and improve upon in the future:

- 1) Impressed by how quickly most stations were logging contacts, I'm confident they were typing call signs into logging software in real time. I was using a pad of paper, and filling in the software as I could. In the future I hope to go directly to the computer; maybe a headset and foot PPT button will help.

2) My 75 watts of TX power worked well enough for most stations, but I was certainly over run on occasion. Future plans include some sort of a directional antenna and a small amplifier.

3) For my first contest, searching out stations who were calling CQ worked best for me. I worked not only on 20 Meters, but also 10, 40, and 80 Meters. The approach was the same on each band; find a station calling for a contact and answer. Only once was I not heard, even at the max power I have – 100 watts. I also noted that filling in stations operating inside California only worked on 40 and 80 meters.

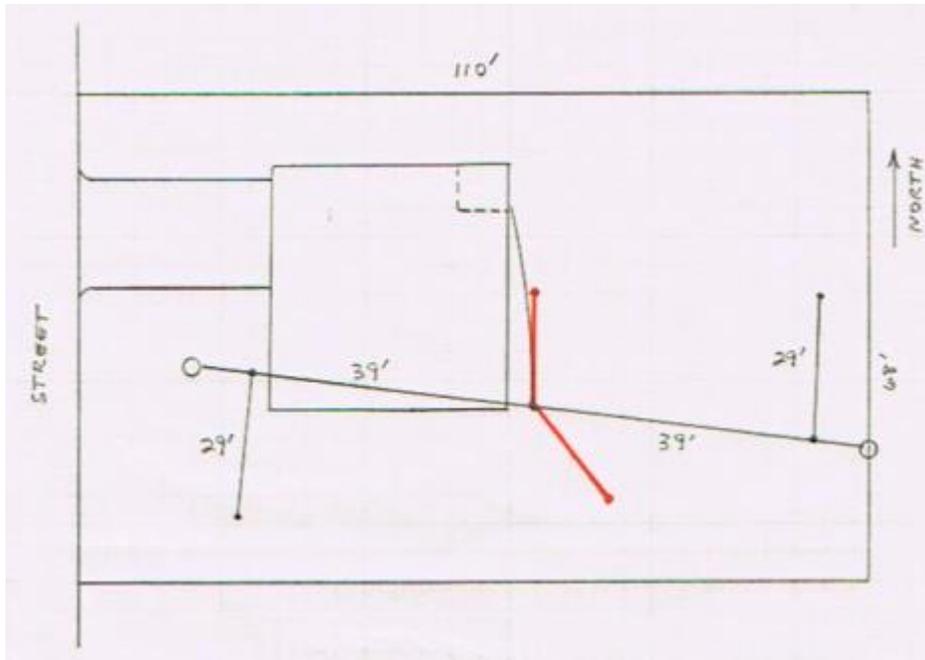
4) Trying my hand at calling CQ myself resulted in far less QSOs; although I did manage to log some. This was much more work, but if I was really concerned with racking up contacts, this would be the way to go. More power, a directional antenna, and calling out CQ on one, or a few, frequencies would greatly add lines to my contest log. After 45 minutes of calling “CQ. CQ, CQ contest, W6CK, CQ, contest” my voice was wearing out. Having a radio that would repeat this over and over for me would be a major help. I don’t think my FT 450D will, but my recently acquired FT 891 does have this ability. This is the plan for next year.

So there you have it. My story of another Amateur Radio First – Contesting. I had an absolutely fantastic time. 73, W6CK, QTH Cameron Park, CA.



Aaron W6CK

The W6SX Antenna — By Hank W6SX



Strung between two Jeffery Pines. The flattop with doglegs is resonate on the low end of eighty.

The red inverted-V elements are parallel legs for forty (and fifteen), twenty, and ten. Oriented to squirt 070 for domestic contests.

Apex 46 feet above ground. Coax feed to second-story shack.

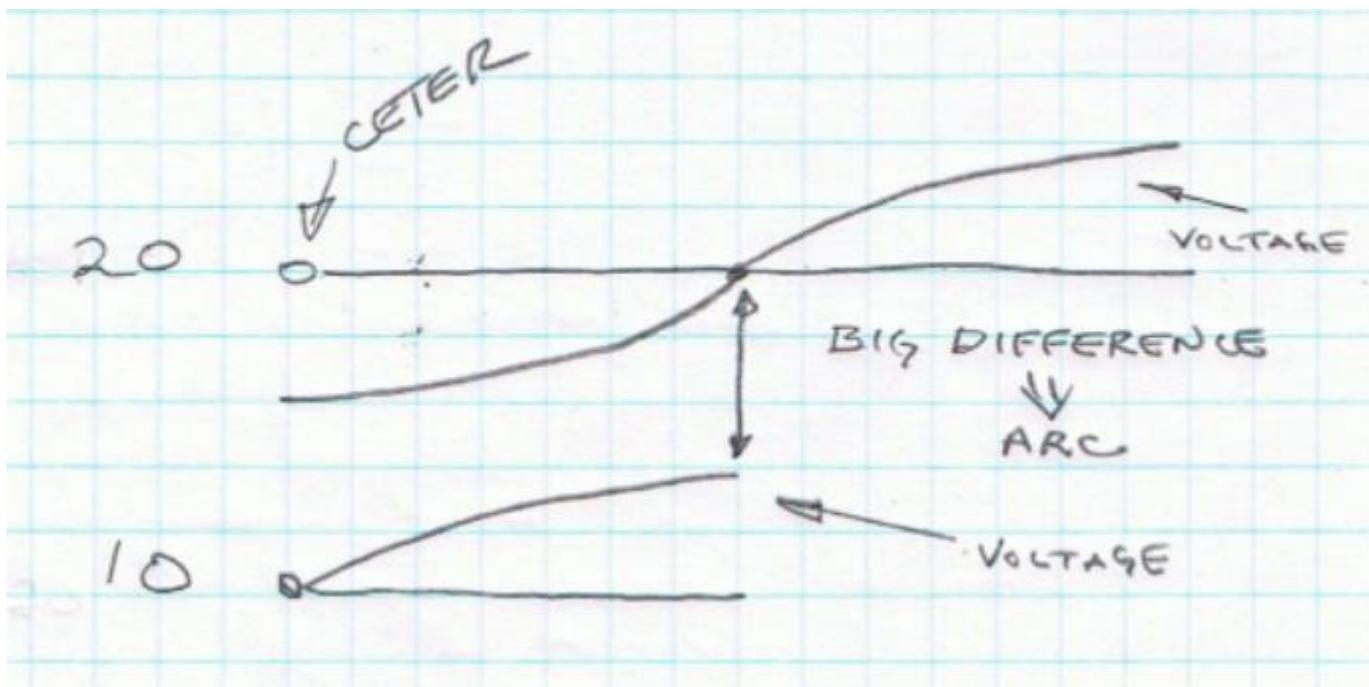
The inverted-V legs are #18 with spreaders made from 1/2-inch CPVC every 18 inches. The wires are 4-1/2 inches apart.

Saturday, everything was fine. Full 1.5 kW all day long during JARTS RTTY.

Until I switched to ten meters.



At full power, the high-voltage end of the ten-meter north leg arced to the low-voltage middle of the twenty-meter leg. (Forty-meter leg is in my hand.)



Incipient arc on south leg.



The laws of physics rule.

I replaced the burned spreaders with twenty-inch spreaders made from old fiberglass cross-country ski poles.



So far, so good. Stay tuned.

Take Home. The ends of antenna elements can have very high voltages. Don't provide an easy path to ground or low-voltage points.

Contest Exuberantly,

Hank, W6SX



My term as NCCC president ends this Spring. It has been an unprecedented three years as president of this great club, but three years is enough. We need new blood...new leadership. We need someone to step up and volunteer to run this club.

So just what can you expect to do, as President? With a good leadership team, the job is pretty easy.

- We have monthly Board meetings, always via conference call, and led by our Secretary, Ian, W6TCP.
- We have a budget, approved by the Board and assembled and maintained by the Treasurer.
- We have a contest plan, approved by the Board and assembled by our VP/CC.
- We have a number of very qualified and energetic volunteers who keep things like CQP, and the Sprints going year after year.

If you've read down this far, it's pretty obvious that a lot of the hard work is distributed among the officers and members. As President, you lead. You come up with new ideas. You try to attend most meetings, but you don't have to attend all of them. You try to motivate the club to have fun and win contests.

For me, the past three years have been a lot of fun. Together with our Board:

- We have established a life membership category.
- We have automated and outsourced our membership process via Member Planet. This has taken a huge load off of the Treasurer and Secretary.
- We have established the KB Competition as a way to honor and recognize our members for their contesting efforts.
- We have brought back the holiday party and made the NCCC BBQ an annual event.
- We have made NCCC a 501 (c) (3) non-profit organization, making it possible for members to write off dues, donate plaques, and make donations to causes that we support.

- As part of the 501 (c) (3) process, we have incorporated NCCC. As a corporation, the club officers and members generally will not be on the hook for the Club's debts or liabilities. This is very important to me, and one of the reasons I pushed for incorporation and non-profit status for NCCC.

Being the President of NCCC is somewhat like running a business filled with good people. If you like what you're reading, I urge you to think about volunteering to lead this club in 2018/2019. You do not have to be a world-class contester, nor is it required that you have prior experience on the Board. I am certainly not a world-class contester and I never served on the Board prior to running for President. I know we have many in the club who are managers, run businesses, and know how to lead and motivate people. At least one of you needs to step forward and accept the HONOR of being the President of the best contest club in the world!

NCCC Meeting Dates ~ 2017

Tuesday, November 14th, 6PM, Tied House 954 Villa St, Mountain View, CA 94041
Program, "**Contesting Take-Aways from Aruba**" by Ed, WØYK

Saturday, December 16th, 11am, 2960 Shoreline Boulevard, Mountain View, CA 94043
NCCC Holiday Party (Michaels at Shoreline)

For Sale AI6V's estate

I am helping Sue AI6YL sell the remaining equipment from AI6V's estate. Carl was a past president of the NCCC.

For Sale Yaesu FT1000D loaded with 4khz roofing filter and TCXO-1 oscillator. Looks like brand new out of the box. Comes with manual, but no

mic or box. This is from the estate of AI6V. The radio is now in Los Vegas, but will be delivered to the Bay Area in early November. Asking price is \$1500, or best offer, this includes delivery with in 100 miles of San Francisco, as needed.

Interested parties should contact Russ K6KLY at [510-852-0002](tel:510-852-0002) or Email k6kly@sbcglobal.net

Thank you Russ K6KLY

California QSO Party

Jerry Olive—KD6WKY—N6D Del Norte

After working a County Expedition in Yolo County just west of Winters, CA with local friends for several years, I decided to try another county. I wanted to work another county by myself so I could focus on CQP and not the group dynamics associated with the K6Y CE over the past few years. Working a County Expedition is fun, but like all groups, there has to be a good fit to make it work.

I spent some time throughout the year emailing with Bob Norin W7YAQ of Sisters, OR who has driven to Del Norte County to work CQP many times. We discussed working together but as October got closer Bob informed me he had several personal events before and after CQP and it would be really great if I committed to Del Norte County so he could work CQP from what turns out to be his only weekend home in October. When I told Bob I'd made plans to do a County Expedition in Crescent City, his wife was pleasantly relieved.

In June 2017 on our way to Seattle, my wife Cora and I drove north via Crescent City and spent a few days there relaxing and looking around. I had done a map recon on Google Maps ahead of the trip and made notes to see what was there when I got in town. On the way out, we drove north on US-199 to I-5 at Grants Pass, OR which was a lovely drive and the best part of the trip.

I made reservations at the Quality Inn and Suites in Crescent City a few weeks ahead of CQP calling the hotel directly and speaking to the duty desk manager Hannah about what I was going to do and why I was going to Crescent City. Hannah was very helpful and booked the reservation acknowledging everything and assuring me there would be no problems. Great!

On the approaching CQP weekend I packed up and headed north from Vacaville via Chico, then Medford, then south to Crescent City. My car is a 2008 Honda Civic GX that runs on Compressed Natural Gas. When driving long distance, a route plan following the fuel source is necessary. Santa Rosa PG&E is the last fueling station going north on US-101 so I couldn't get to Crescent City and back without refueling. That made the trip a bit of an adventure because I had never driven north of Redding in my car. After Chico, the next place I could buy CNG was Medford OR, 224 miles away. My vehicle range is about 280 miles on paper at 40 MPG. I was able to work a good run of 45 MPG from Chico to Medford only burning five gallons so everything turned out fine with room to spare. Same exercise from Medford to Crescent City and back to Medford, 222 miles round trip. As it turned out I would have had to drive home via Medford, OR anyway due to the massive fires in Sonoma County on Monday. Enough about that.

I set up my Super Antenna™ YP-3 on 20 meters and my Buddipole™ on 40 meters in the vertical configuration. Both antennas were over 100 feet away from the building with no overhead wires close by. I made sure to use plenty of ground stakes and guy the masts well. That paid off Saturday night when it got pretty windy.

I started out on 20 meter SSB with little success only making 23 contact in about 90 minutes. Reconfiguring the YP-3 to 20 meters CW changed that and the log started filling up nicely. I just left the antenna there the rest of the contest. Glad I had a compass with me to make sure I oriented the direct of the antenna east.

The room set up was nice. I used a card table for the radio and computer set up between the two beds. The bed on my left was my staging platform for my gear and a place to lean over and write on a note pad. Left handed guys. It was so nice to be on the air on time for a change. I never was able to get going at the beginning of the contest for a variety of reasons when working with others at the Yolo County site.

The room I had was a southeasterly facing room with a sliding glass door out to a very large open lawn with nothing beyond the hotel property. The soil was a bit sandy in some spots so pounding stakes into solid soil took a few tries. I made a mental note to check the guys and stakes throughout the weekend for a secure hold.

I worked about 15 hours total including antenna tuning time. Made 348 total contact and had another 15 or so contacts that were dupes that just kept coming back for more. All but 23 of my contacts were on CW as SSB as not productive for me there. I got up early Sunday morning and thought the JA's would be calling, but only worked one. Sunday afternoon I worked a dozen EU DX stations in the contest which was cool.

About Noon on Sunday I got a call from the hotel General Manager very animated about my antennas on the south lawn. I guess he came out of his office finally and looked around the property, saw the antennas and gasped! The conversation started out with I never discussed antennas to well okay, but who said you could do that? I reminded him that I had had a thorough conversation the first time on the phone with Hannah, then at check in with Hannah and with him in the back ground. Everything was out there.

After 15 minutes and an explanation why the FAA wouldn't care about my antennas; his hotel is taller than my radiators, he calmed down. He said next time send everything on letterhead ahead of time for the record. I said, sure, no problem! We hung up and I went back to work.

No County Expedition goes without something breaking. During set up of my Buddipole™ the mast tipped over and I bent a nine foot whip. On the YP-3, I dropped a thumb screw in the grass and never found it. I used 3M blue painters tape to secure that element length for the weekend. The thumb screw is easily replaceable. I had a problem with the computer power supply not working for a while eventually getting it to work. Now, here at home it's done. Note to self, bring two computer power supplies from now on. I have a new one coming and a spare at the office.

I left Crescent City Monday morning at 7:00 AM arriving home in Vacaville at 5:00 PM, 445 mile later. Now that I have everything cleaned, put away, and the admin part done, I look forward to another County Expedition that fills in the CQP map in one of those rare counties.

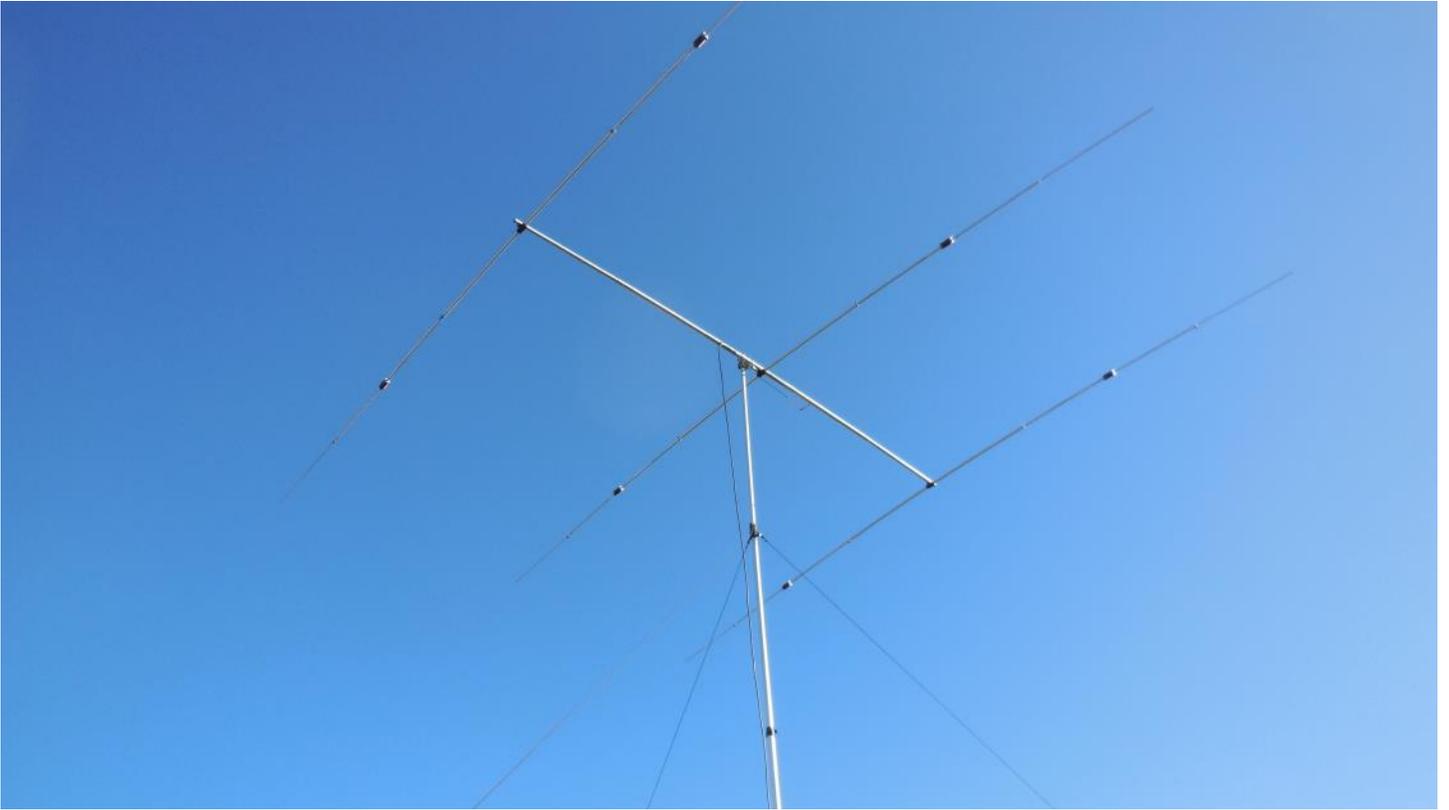
N6D—Del Norte



N6D—Del Norte



N6D—Del Norte



W6SR—El Dorado

Ric, WO4O was a guest op at the station of Rick W6SR. Rick traveled here from FL just to participate in the CQP. He also joined the MLDXCC to keep his operation legal.



Ric WO4O

Band conditions were just good enough (or bad enough) to give us non-SO2R guys a chance turn-in a decent score.

W6SR—El Dorado



Rick W6SR , Ric WO4O

Ric ran 23.7 hours and probably got the best CQP score possible from my modest station

K6G—Glen

This was a hastily prepared effort to activate at least Glenn or Tahema. I kept waiting for someone to volunteer and, by Wednesday prior to the contest, seeing no one other than a mobile, I decided to go for it. Saturday would be K6G. Sunday would be K6C, operating from the home QTH.

I decided on Glenn after searching Google Earth for an operating location. I chose a low security prison, on a ridge in the middle of nowhere in the Mendocino National Forrest. 4500 foot elevation and a 3 hour non-stop drive from Lotus.

Much of my remote gear was promised to W6A (K6TLR), in Alpine. This included my generator, a Cushcraft A3S, various cables, and a 30 foot mast borrowed from work.

I took Friday off to prepare and it was a busy day. I had a TA-33JR tribander about 300 feet down the hill, mounted at 10 feet that I've been using for years as a low noise receiving antenna. I took it down and broke it down to a size I could transport. I repaired my SB-200 amp and also built a keying interface for it. I made several cables. Helped K6TLR and company load up. Pulled a FT-1000MP off the shelf and loaded up a 6 foot non-penetrating mount with a twelve foot mast clamped to it. Also brought six cinder blocks. I picked up a generator from a friend, since mine went to Alpine.

I arrived at the site much later than I wanted, about Noon, but I worked late Friday getting things ready.



The prison guards were great. They set me up quite some distance from the prison buildings on their helipad. It was flat and quiet with a beautiful view in three quadrants. The prison was on top of the ridge. The helipad was about 100 feet down from the prison. This is a low security prison, with the inmates walking around openly, wearing their bright orange jump suits. Good thing I didn't wear my bright orange CQP shirt!



It took about an hour and a half to get everything set up. I ended up using the tailgate on my pickup as an operating table.

I could not get the Winkeyer to key the radio. I brought extra cables and tried changing things around. It was talking to Writelog, but no matter what I did it would not key the radio. Spent far too much time trying to make this work. Didn't have a key with me but I did throw an old serial port Winkeyer in the truck, so I grabbed a serial cable, plugged it into the Edgeport, and it worked. Still don't know why the USB Winkeyer didn't work.



Got on the air and worked most of the big stations, but signals were nowhere near as loud as I expected them to be. Got called by a couple of loud JA's and then thought that perhaps I had the beam in the wrong direction. Apparently I did. There's no internet out there, so I got in the truck and looked at the compass. Turns out I was oriented NW for most of the time I was on the air. I couldn't believe it. I had a pretty good idea from Google Earth which way was which, but the heliport location got me disoriented. 70 degrees ended up with the beam looking directly into the top of the ridge. Got the antenna turned and that helped quite a bit but then the SWR jumped up on 20. Think I lost a trap, so shut down at 4:30 local time.

My old friend, Paul, N4PN, got his sweep by working me, so there was a bright spot in the operation. Ended up with only about 2.5 hours of operating time and totally exhausted by the time I got home.

N6O—Contra Costa



KI6NJW learns from her OM, K3EST

N6O—Contra Costa



K6AW, KI6NJW, WA6O, K3EST, WX5S

N6O—Contra Costa



K6AW, N6WM, NA6O, AI6JZ, KI6NJW, K3EST

KB Awards Going Live on NCCC Webpage



NCCC Award Program

NCCC sponsors a number of Club awards for members, non-members and for a variety of Contests.

NCCC Annual KB Competition

Purpose: To provide a means of rewarding NCCC members who are DX contesters, sprinters, VHFers, and especially active contesters.

Time period: The contest year starts March 1. ARRL DX SSB is the first contest of the year. NAQP RTTY is the last.

Eligible contests: Currently, points from 35 contests are counted. See the table on the next page

Scoring: Score = number of contests in which you participated * sum of (points for each contest * each contest's multiplier).

NCCC weekly sprints are special. Points for the entire year are added up, but it is only counted as a single contest.

Multi-ops: Points = total score divided by the number of operators.

Station owners: A station owner who does not participate in a particular contest receives 25% of the points. Only scores posted to 3830scores.com are counted. Only Paid NCCC members may receive awards.

Complete Rules can be downloaded from [HERE](#)

Current KB Rankings shown [HERE](#)

Current KB Raw Data shown [HERE](#)

Thanks to our webmaster John, K6MM, everything you want to know about the NCCC Annual KB Competition is available on the club webpage, NCCC.cc. Click on the Awards button, and you'll see links to the competition rules and the current standings. Matt, WX5S, is almost done with the programming that will automatically update those scores on a frequent basis and we hope to have that live in the next couple of weeks. At last, we will no longer be gathering scores from 3830 manually, which was very time consuming and error-prone. So a big KB to Matt for all his work!

Some upcoming contests that are eligible for KB Award credit are:

- CQ WW (SSB and CW)
- Sweepstakes (SSB and CW)
- NA Sprint SSB

NCCC Annual KB Competition Rules



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Only scores posted to 3830scores.com are counted.

Paid NCCC members may receive awards.

NCCC Annual KB Competition Table (Updated 9/30/2017)

Contest	Month	Multiplier
ARRL RTTY Roundup	January	50
NAQP Winter CW	January	50
NAQP Winter SSB	January	50
NA Sprint Winter CW	February	100
CQ WPX RTTY	February	2
ARRL DX Contest CW	February	5
NAQP Winter RTTY	February	50
ARRL DX Contest SSB	March	5
CQ WPX SSB	March	2
NA Sprint Spring SSB	April	100
JIDX CW	April	20
7th Area QSO Party	May	10
New England QSO Party	May	10
CQ WPX CW	May	2
ARRL June VHF	June	200
All Asian CW	June	10
IARU HF World Championships	July	5
NAQP Summer RTTY	July	50
NAQP Summer CW	August	50
NAQP Summer SSB	August	50
NA Sprint Fall CW	September	100
CQWW RTTY	September	1
CQP	October	20
JARTS RTTY Contest	October	5
CQWW SSB	October	1
ARRL Sweepstakes CW	November	20
NA Sprint Fall SSB	November	100
ARRL Sweepstakes SSB	November	20
CQWW CW	November	1
ARRL 160 Meter Contest	December	50
10 Meter RTTY Contest	December	100
ARRL 10 Meter Contest	December	10
NCCC Sprint CW	Weekly	100
NCCC Sprint RTTY	Weekly	100

NCCC Annual KB Competition Leader Board (Updated 9/30/2017)

RANK	CALL	CONTESTS	KB SCORE
1	W2SC	3	344,710,179
2	NA6O	17	304,943,717
3	N6RO	15	235,071,731
4	N6ZFO	13	196,378,403
5	KA6BIM	10	174,346,830
6	K6SRZ	11	171,027,351
7	N7MH	7	154,640,059
8	N6WM	9	140,732,699
9	K6MR	8	137,520,096
10	W6SX	12	119,467,392
11	K3EST	7	112,803,458
12	N6TV	5	107,378,290
13	K6XX	6	94,627,554
14	K9YC	6	90,065,868
15	K7XC	12	89,575,992
16	AE6Y	2	80,544,880
17	K6LRN	9	78,504,354
18	K5RC	9	74,917,800
19	W1SRD	9	74,908,611
20	W1RH	9	56,411,847
21	AD6E	5	56,349,440
22	WX5S	6	54,762,225
23	N0KQ	11	51,225,999
24	N6IE	7	43,215,942
25	AF6SA	11	42,802,056
26	WK6I	3	41,289,660
27	K2RD	9	36,640,116
28	K6GHA	6	32,413,848
29	W6FA	10	24,979,750
30	N6JV	3	21,303,444
31	ND2T	8	21,546,400
32	AJ6V	3	19,327,200
33	K6MM	8	19,183,824
34	KR6N	7	19,142,592
35	N2NS	12	18,617,304
36	K6AW	3	16,643,705
37	W6JTI	4	16,292,080
38	WB6JJJ	4	15,341,700
39	KH2TJ	9	14,807,088
40	N6EE	5	14,786,870
41	WC6H	3	14,782,626
42	W6NV	3	14,655,540
43	W6OAT	5	13,308,380
44	K6SCA	4	10,609,664
45	N6PN	3	9,293,745
46	N6AJS	6	8,478,480
47	KX7M	2	8,115,960
48	W6EU	2	8,014,260
49	KM6I	8	7,858,048
50	W6TCP	4	7,191,560

RANK	CALL	CONTESTS	KB SCORE
51	N3ZZ	3	6,838,500
52	K7GK	1	6,565,104
53	K6KNS	5	6,458,970
54	N5KO	2	6,174,807
55	W6GJB	2	5,515,596
56	K6YK	4	5,416,164
57	K6RIM	4	4,107,960
58	W6SR	3	4,052,118
59	KE8FT	5	3,730,530
60	K6XN	4	3,610,308
61	K6AAM	1	3,498,756
62	K6ST	1	3,389,802
63	NW6P	3	3,288,954
64	WA6O	1	3,237,633
65	W6SFK	2	3,038,100
66	K6RB	1	3,019,200
67	KM9R	2	2,419,120
68	NJ6G	5	2,347,900
69	K6XV	3	2,226,075
70	KA6W	3	2,093,100
71	W6RGG	3	2,039,982
72	WU6X	4	1,845,944
73	W6OTC	1	1,797,404
74	OH1VR	1	1,763,755
75	W6LD	1	1,763,755
76	K6CSL	6	1,691,916
77	NR6Q	1	1,552,320
78	N6NU	1	1,483,943
79	NQ6N	1	1,483,943
80	K6ELE	2	1,453,800
81	K6UFO	3	1,323,750
82	K6GFJ	2	1,192,764
83	K6IJ	1	1,168,400
84	AE6YB	4	1,140,968
85	K6DGW	2	1,035,180
86	N6GQ	1	1,012,671
87	N6GEO	2	866,436
88	W6FB	2	835,200
89	K6NV	2	1,443,300
90	WU6W	3	610,224
91	NH6V	1	518,410
92	AI6JZ	1	518,410
93	K7XE	3	511,290
94	N6SPP	1	456,000
95	K6EU	1	417,000
96	W6RD	1	337,845
97	KK6DF	1	326,400
98	N3RC	2	325,872
99	W6NL	1	322,500
100	KI6OY	5	313,750



ARRL The national association for
AMATEUR RADIO®
Advancing the art, science, and enjoyment of Amateur Radio

- ADVOCACY
- MEMBERSHIP
- PUBLIC SERVICE
- EDUCATION
- TECHNOLOGY

September 14, 2017

NORTHERN CALIFORNIA CONTEST CLUB
PO Box 273
Somerset, CA 95684-0273

Dear Friends:

Thank you for your contribution of \$250.00 to support ARRL's Spectrum Defense Fund.

Through this gift, you are providing critical resources to help ARRL staff and volunteers maintain our vigilance to protect radio amateurs' access to the radio spectrum. The explosive growth in demand for spectrum to support commercial broadband services is generating tremendous pressure on incumbent services, including Amateur Radio.

Your trust in the ARRL to keep a watchful eye on behalf of Amateur Radio – in official Washington and elsewhere – is greatly appreciated. Please be assured that we are always alert and proactive in our commitment to detect and respond to any threat to our allocations.

Again, many thanks for giving to the Spectrum Defense Fund. With your support, we can look forward to the challenges ahead with confidence and conviction.

Sincerely,

Lauren Clarke, KB1YDD
Development Manager

ARRL is an IRS-designated 501(c) (3) organization holding federal tax identification # 06-6000004. Accordingly, your contribution may be tax deductible to the extent allowed by law. No goods or services have been provided for this contribution.

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- Gregory P. Widin, K0GW
First Vice President
- Brian Milesosky, N5ZGT
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- Barry J. Shelley, N1VXY
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- Rick Niswander, K7GM
Treasurer

ARRL Headquarters, 225 Main Street, Newington, Connecticut, USA 06111-1494
Telephone: 860-594-0200 ■ FAX: 860-594-0259 ■ www.arrl.org

AMERICAN RADIO RELAY LEAGUE, INC.— International Secretariat of the International Amateur Radio Union

Tom Gallagher, NY2RF



ARRL The national association for
AMATEUR RADIO®

October 12, 2017

Northern California Contest Club
PO Box 273
Somerset, CA 95684-0273

Dear Friends,

Many thanks for your recent generous donation to support Ham Aid. I am enclosing (iron-on) patches for your members as a token of our appreciation.

ARRL has responded to the urgent need in Puerto Rico by sending equipment and ham kits to assist in emergency communications. Fifty operators have also volunteered to travel to the devastated island to assist The Red Cross in recovery efforts.

The recovery efforts in Puerto Rico and the Caribbean Islands will be long and difficult. At least one news program reported that it will take at least a year for electricity in some parts of Puerto Rico to be restored.

You can be proud of the service Amateur Radio operators are providing to those who continue to suffer from the devastation of Hurricane Maria. Please be sure to check the ARRL on-line news at www.arrl.org for the latest information on relief efforts and all that Amateur Radio and hams are doing to help with these endeavors.

Again, thank you and 73,

ARRL • 225 Main Street • Newington, CT • 06111-1494



ARRL The national association for AMATEUR RADIO®

Advancing the art, science, and enjoyment of Amateur Radio

- ADVOCACY
- MEMBERSHIP
- PUBLIC SERVICE
- EDUCATION
- TECHNOLOGY

October 12, 2017

Northern California Contest
PO Box 273
Somerset, CA 95684-0273

Dear Friends:

On behalf of American Radio Relay League and Amateur Radio volunteers everywhere, thank you for your \$1,000.00 contribution to ARRL's Ham Aid Fund in response to Hurricane Harvey efforts.

Amateur Radio volunteers spend untold hours and their own funds to offer their time, their expertise and their equipment to provide communication services for our communities in times of crisis. The ARRL's Ham Aid Fund has been tapped to aid Amateur Radio operations in several states hit by disasters. We anticipate the demand for equipment may continue from Alabama and possibly from neighboring states.

Your contribution to the Ham Aid Fund will be used to purchase amateur radio equipment and deploy it when needed for a disaster response.

Thank you for acknowledging the service of our colleagues and showing your gratitude through your contribution of support.

Sincerely,

Lauren Clarke

many thanks for your very generous donation!

Lauren Clarke, KB1YDD
Development Manager

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- | | | | |
|--|--|---|---|
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AMERICAN RADIO RELAY LEAGUE, INC.— International Secretariat of the International Amateur Radio Union

WRTC 2018 is coming - 250 days to go

There are now just 250 days to WRTC 2018 in Jessen/Wittenberg. A lot has already happened - but there is still a lot left to be done and time flies. In recent months, important subprojects have been finished.

- The qualification stage is completed with the applications received from and invitations sent out to the participants.
- At the IARU Contest, several WRTC 2018 participants visited Germany and have already evaluated propagation routes and station equipment.
- During the big test day, 100 volunteers at 15 locations tested the WRTC 2018 technology and logistics.
- Here as well as at "Ham Radio" in Friedrichshafen you could feel a great deal of the Ham spirit, which carries us along the way to WRTC 2018.

The most important aspect of the WRTC is of course the sport. Meanwhile, the participants are confirmed (see [Participants Page](#)). To mark 250-days out from the event we asked the participants a few questions and asked them to tell us about their enthusiasm.

Generation-Connecting Sport

Looking at the age structure of the WRTC 2018, a picture emerges that makes amateur radio sport something special. The youngest participant is Bryant, KG5HVO, at the age of 14. The oldest is the well-known Contester [Maryyn](#), N5AW, at the age of 77. In between, all age groups are represented almost equally, so that we will experience amateur radio not only as a global sport but also as a generation-connecting one. All participants compete in the same competition and on the same level.



Very Young Competitors: [Tamas](#) -HA8RT), Bryant - KG5HVO, Xenia -ZL4YL



PRESS RELEASE

WRTC 2018 e.V.
c/o Michael Höding, DL6MHW
Phone: +49 39201 20779
E-Mail: dl6mhw@wrtc2018.de



Very experienced Competitors Marvin- N5AW (77), Alan - N3AD (75), Dale VE7SV (73)

Start Young for a lifelong Sport

Another view point shows a very uniform picture. Almost all of the participants started amateur radio as teenagers, i.e. they acquired their first license as a teenager and continued into a lifelong radio sport passion. The survey showed an average age of 13.3 years when the competitor's first amateur radio license was achieved. Starting young - teenager contesters from five decades



Starting young - teenager contesters from five Decades

Great Expectations

Asked about the sporting goals, there were a number of interesting answers. There were clear announcements, for example, from reigning World Champion Chris, KL9A "To Win!", Vice-champion Tonno, ES5TV with "Gold", or Stefan, DL1IAO, (bronze at WRTC 2014) with "To do the best within my limits and get on the Podium!". However, there were also cautious



PRESS RELEASE

WRTC 2018 e.V.
c/o Michael Höding, DL8MHW
Phone: +49 39201 20779
E-Mail: dl8mhw@wrtc2018.de

remarks such as those of Bud, AA3B, "To be competitive." Or Ingo, SM5AJV, "To have our best competition position ever.", also show clear sporting ambitions.

Asked about who was expected to be on the podium, the reigning World Champions N6MJ / KL9A were mentioned several times. Several answers favored the medalists of the previous two World Championships. There were also calls such as "It's time for the German team!" Or "EU teams" from the participants. It's going to be exciting.

The expectations of the German organizers were pretty much the same. K5WA writes: "TNX a lot for all you are doing to make WRTC 2018 a success. You have my respect! ". With this motivation, the organizing team and the many volunteers will continue to work hard for the next 256 days, so that on July 16, 2018, we can select the next World Radiosport Champion.

Honorary Life Membership—Bob W6RGG

Congratulations to **Bob W6RGG** who is an Honorary Life Member of the NCCC

NCCC members who reach 80 years young and 20 year's membership to the NCCC will upon receipt of a request for Life membership request be awarded Honorary Life Membership to the NCCC after review by the BOD.

If you qualify, please contact the NCCC Secretary Ian W6TCP

NCCC Life Membership

NCCC Life Membership is available for a one-off payment of \$250.00

If you would like to apply for life membership, please submit your request using this link [here](#)

Each request will be reviewed by the NCCC BOD at the regular monthly BOD meeting.

For further information, contact Ian W6TCP

Point Generator Profile

By Bob, W1RH

This month's point generator is a well know name/call in the contesting world: Roger, N3RC.

A glance at N3RC in 3830 show serious points from a serious operator, over many years. A former PVRC guy, NCCC is lucky to have Roger on our team!

Now, more about N3RC:

Name/Call Sign: Roger Cooper N3RC

Past calls: W4GM, K4BTQ, K6ZQB licensed since 1957
Long time PVRCer in Washington, DC area.

Location: Sebastopol, Calif. 95472

How much property do you have? .41 acres

Describe your antenna system:

Current: .Steppir DB-36 on 70' crankup, 260' OCF, 130'OCF, 160 inv L with 65' vertical, eggbeaters 144, 440

Future:
Phased 80m verticals

What's in your shack? K3, Alpha 9500 , TS-2000, SDRPlay 1

What are your previous QTH's? Livingston, Mt., Alexandria, Va., Reseda, Ca., Macon, Ga.

If you're working, what is your career? If not, what was your career?
Federal Government :CIO of Justice Dept. and Treasury Dept.

Married? Kids? Grandkids?
Married, 2 kids, 4 grandkids

How many DXCC entities have you worked? 342/Challenge confirmed 2149

What's your favorite contest? JARTS & SWEEPSTAKES

Any tips for contesters? Have fun, Hank stole it from me!

What would you like to see changed in NCCC?
Better propagation for West Coast!

Any other hobbies besides ham radio? Computers, sailing, skiing, flying, SCUBA diving, road and mountain biking,





Roger Cooper N3RC



NCCC September Meeting

The September meeting of the NCCC took place on Saturday 30th at El Tapatio, in Pleasant Hill.

In attendance was 30 members/guests :

Peter AA6SF, Robert AD6I, Michael DG1CMZ, Jim K6JAT, Dick K6LRN, John K6MM, Carolyn K6TKD, Jim K9YC, Jerry KD6WKY, Lee KI6OY, Dave KK6DF, Tom N3ZZ, Jim N6JS, Byron N6NUL, David N6ORB, Bob N6TV, Chris N6WM, Gary NA6O, Dennis NJ6G, Tom NS6T, Tom NW6P, Bob W1RH, Scott W6CT, Glen W6GJB, Rusty W6OAT, Bob W6RGG, Bill W9KKN, Rich WC6H, John WD6EIW, Matt WX5S









TUBE OF THE MONTH

Visit the museum at N6JV.com

Norm N6JV

UV-211

With the success of the UV-203, the RCA Company announced a new version of the “50 watter” in 1923. The 203 was designed as a transmitting tube and there was a need for tubes that would work better as audio amplifiers. AM broadcasting was starting to catch on and modulation tubes were desirable. Audio tubes don't require any special design above that required for a transmitting tube. The 203 had a mu or amplification factor of 25, so reducing the number of turns on the grid would reduce the mu. The UV-211 had a mu of 12.5. The KFBK (Sacramento) transmitter of 1924 had a pair of 50 watters in parallel in a Hartley circuit and was modulated by a pair of 211 types. The military designated the new tube as the VT-4-B and General Electric, who actually made the tubes, called it the PR-11-A. RCA was not shy about stealing ideas and the 211 was a good example. In 1921, the Western Electric Company developed a similar tube called the WE-211A. RCA held the triode patent, so they got away with a lot.

The UV-211 was replaced by the 211 or VT-4-C. In the 1930s, military designers were developing transmitters for the new heavy bombers. The BC-375 was made in vast numbers before and during WWII. This transmitter had three 211s in the final and one as a modulator. One BC-375 was used in every B-17, B-24, B25, B-26 and early B29s. They were also used in portable and mobile applications. The VT-4-C was very common after the war and they were everywhere along with the BC-375s. You could buy them for a dollar at any swap meet.

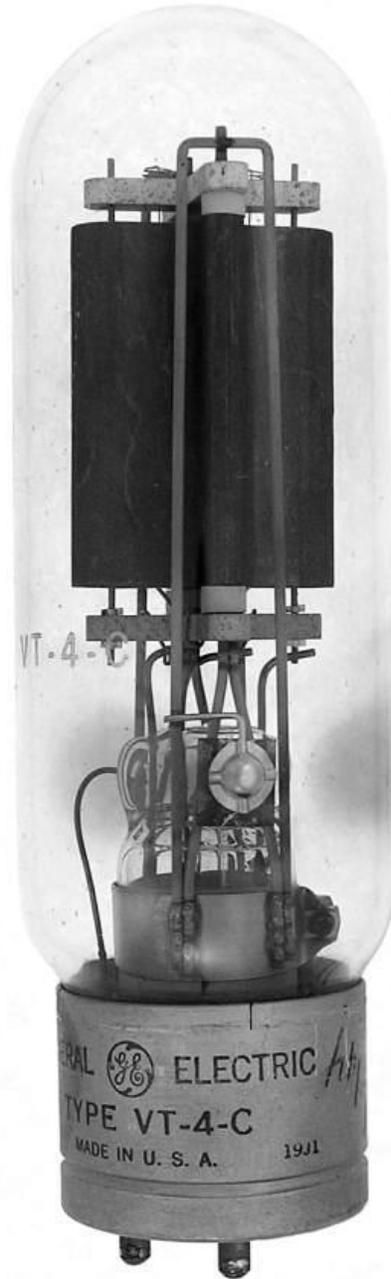
Then the audio nuts discovered the better sound from vacuum tubes than solid state and the rush was on. In a short time the VT-4-C cost \$75 each and they are still climbing. Recent eBay sales are well over \$100. New single ended audio amplifiers are being sold and big bucks using the old VT-4-C. Never give up on an old tube. <http://home.comcast.net/~n6jv/211.html>

TUBE OF THE MONTH

Visit the museum at N6JV.com

Norm N6JV

UV-211



NCCC Life Membership!

The NCCC Life member program was introduced last year for a flat fee of \$250. If you are interested in becoming an NCCC Life member, please contact Ian W6TCP at w6tcpian@gmail.com

CQP T-Shirts

We have a small number of T-Shirts left for anyone that wants one. They are \$15 each, available on a first come first served basis.

Available sizes:

2XL

XL

M

JUG Articles Wanted!

Without your help we cannot reproduce a quality newsletter so please consider submitting a suitable article!

We welcome any and all relevant articles for inclusion in the JUG.

Deadline is 7 days before month end. Preferred format is MS Word, Arial 12 point and pictures should be full resolution. Send your material to Ian, W6TCP at w6tcpian@gmail.com Don't worry about the formatting, we can take care of that if necessary !



Contest Calendar— November page 1

Phone Fray	0230Z-0300Z, Nov 1
CWops Mini-CWT Test	1300Z-1400Z, Nov 1 and 1900Z-2000Z, Nov 1 and 0300Z-0400Z, Nov 2
UKEICC 80m Contest	2000Z-2100Z, Nov 1
NRAU 10m Activity Contest	1800Z-1900Z, Nov 2 (CW) and 1900Z-2000Z, Nov 2 (SSB) and 2000Z-2100Z, Nov 2 (FM) and 2100Z-2200Z, Nov 2 (Dig)
NCCC RTTY Sprint	0145Z-0215Z, Nov 3
NCCC Sprint	0230Z-0300Z, Nov 3
ARRL EME Contest	0000Z, Nov 4 to 2359Z, Nov 5
IPARC Contest, CW	0600Z-1000Z, Nov 4 and 1400Z-1800Z, Nov 4
Ukrainian DX Contest	1200Z, Nov 4 to 1200Z, Nov 5
ARRL Sweepstakes Contest, CW	2100Z, Nov 4 to 0300Z, Nov 6
IPARC Contest, SSB	0600Z-1000Z, Nov 5 and 1400Z-1800Z, Nov 5
EANET Sprint	0800Z-1200Z, Nov 5
High Speed Club CW Contest	0900Z-1100Z, Nov 5 and 1500Z-1700Z, Nov 5
ARS Spartan Sprint	0200Z-0400Z, Nov 7
QRP Fox Hunt	0200Z-0330Z, Nov 8
Phone Fray	0230Z-0300Z, Nov 8
CWops Mini-CWT Test	1300Z-1400Z, Nov 8 and 1900Z-2000Z, Nov 8 and 0300Z-0400Z, Nov 9
NCCC RTTY Sprint	0145Z-0215Z, Nov 10

Contest Calendar – November

0200Z-0330Z, Nov 10

0230Z-0300Z, Nov 10

WAE DX Contest, RTTY

0000Z, Nov 11 to 2359Z, Nov 12

10-10 Int. Fall Contest, Digital

0001Z, Nov 11 to 2359Z, Nov 12

JIDX Phone Contest

0700Z, Nov 11 to 1300Z, Nov 12

OK/OM DX Contest, CW

1200Z, Nov 11 to 1200Z, Nov 12

SKCC Weekend Sprintathon

1200Z, Nov 11 to 2400Z, Nov 12

Kentucky QSO Party

1400Z, Nov 11 to 0200Z, Nov 12

CQ-WE Contest

1900Z-2300Z, Nov 11 (CW/Digital) and

0100Z-0500Z, Nov 12 (Phone) and

1900Z-2300Z, Nov 12 (Phone) and

0100Z-0500Z, Nov 13 (CW/Digital)

North American SSB Sprint Contest

0000Z-0400Z, Nov 12

4 States QRP Group Second Sunday Sprint

0100Z-0300Z, Nov 13

RSGB 80m Autumn Series, Data

2000Z-2130Z, Nov 13

QRP Fox Hunt

0200Z-0330Z, Nov 15

Phone Fray

0230Z-0300Z, Nov 15

CWops Mini-CWT Test

1300Z-1400Z, Nov 15 and

1900Z-2000Z, Nov 15 and

0300Z-0400Z, Nov 16

NAQCC CW Sprint

0130Z-0330Z, Nov 16

NCCC RTTY Sprint

0145Z-0215Z, Nov 17

QRP Fox Hunt

0200Z-0330Z, Nov 17

NCCC Sprint

0230Z-0300Z, Nov 17

YO International PSK31 Contest

1600Z-2200Z, Nov 17

SARL Field Day Contest

1000Z, Nov 18 to 1000Z, Nov 19

LZ DX Contest

1200Z, Nov 18 to 1200Z, Nov 19

All Austrian 160-Meter Contest

1600Z, Nov 18 to 0700Z, Nov 19



Contest Calendar— November page 3

REF 160-Meter Contest	1700Z, Nov 18 to 0100Z, Nov 19
Feld Hell Sprint	1900Z-2059Z, Nov 18
RSGB 2nd 1.8 MHz Contest, CW	1900Z-2300Z, Nov 18
ARRL Sweepstakes Contest, SSB	2100Z, Nov 18 to 0300Z, Nov 20
Homebrew and Oldtime Equipment Party	1300-1500Z, Nov 19 (40m) and 1500-1700Z, Nov 19 (80m)
Run for the Bacon QRP Contest	0200Z-0400Z, Nov 20
SKCC Sprint	0000Z-0200Z, Nov 22
QRP Fox Hunt	0200Z-0330Z, Nov 22
Phone Fray	0230Z-0300Z, Nov 22
CWops Mini-CWT Test	1300Z-1400Z, Nov 22 and 1900Z-2000Z, Nov 22 and 0300Z-0400Z, Nov 23
RSGB 80m Autumn Series, SSB	2000Z-2130Z, Nov 22
NCCC RTTY Sprint	0145Z-0215Z, Nov 24
NCCC Sprint	0230Z-0300Z, Nov 24
CQ Worldwide DX Contest, CW	0000Z, Nov 25 to 2400Z, Nov 26
QRP Fox Hunt	0200Z-0330Z, Nov 29
Phone Fray	0230Z-0300Z, Nov 29
CWops Mini-CWT Test	1300Z-1400Z, Nov 29 and 1900Z-2000Z, Nov 29 and 0300Z-0400Z, Nov 30
UKEICC 80m Contest	2000Z-2100Z, Nov 29
RSGB 80m Autumn Series, CW	2000Z-2130Z, Nov 30



NCCC Membership Information

If you wish to join NCCC, you must fill out an [application for membership](#), which will be read and voted upon at the next monthly meeting.

To join, you must reside within [club territory](#) which is defined as the maximum of:

- Northern California, anything north of the Tehachapi's up to the Oregon border, and
- A part of north-western Nevada (anything within our ARRL 175-mile radius circle centered at 10 miles North of Auburn on Highway 49).

JUG Articles Wanted!

Without your help we cannot reproduce a quality newsletter so please consider submitting a suitable article!

We welcome any and all relevant articles for inclusion in the JUG.

Deadline is 7 days before month end. Preferred format is MS Word, Arial 12 point and pictures should be full resolution. Send your material to Ian, W6TCP at w6tcpian@gmail.com Don't worry about the formatting, we can take care of that if necessary !

Northern California Contest Club Reflector—Guidelines

This reflector is devoted to the discussion of contesting.

This includes contests, station building, dxpeditions, technical questions, contesting questions, amateur radio equipment wants/sales, score posting, amateur radio meetings/conventions, and membership achievements.

This does not include personal attacks, politics, or off-subject posts which will be considered a violation of the Guidelines.

Violations may result in removal of the violator from the reflector and possibly from club membership in good standing.



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NCCCKB



HAM RADIO OUTLET

14 STORE BUYING POWER!

ICOM



IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz** • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery

KENWOOD



TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



TM-D710G | 2M/440 Dualband

- V+V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



TM-V71A | 2M/440 Dualband

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio



FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan

YAESU
The radio



FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band



5 Ways to Shop!

- RETAIL LOCATIONS – Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE – Toll-free phone hours 9:30AM - 5:30PM
- ONLINE – WWW.HAMRADIO.COM
- FAX – All store locations
- MAIL – All store locations

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OAKLAND, CA
(877) 892-1745

PORTLAND, OR
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(800) 559-7388

WOODBRIIDGE, VA
(800) 444-4799

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Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.

New Store!