



Publication of the
Northern California
Contest Club



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Presidents Report:

Changes...

Those of us who have been contesting for a while cant help but notice the many changes in ham contesting. Your first contest rig might have been a Hammarlund receiver with surplus ARC-5 transmitter, or in my case a Heath SB303 receiver with DX-60B transmitter. We all logged the same way, pencil and paper logs and dupe sheets, although there were a few venturous folks who used an ink pen for logging. CW was sent with a straight key or bug. Computer? Not in our stations. Those were the good old days, right?

Moving forward to today, things have changed, and not just by a little. State of the art was described by Dan Craig, N6MJ, in a presentation at Contest University at Dayton. This is a presentation worth watching, and is now available at the Contest University web site (URL: <https://www.contestuniversity.com/videos/>). So what is state of the art? It is a mode called Two Band Synchronous Interleaved QSOs or 2BSIQ. Like SO2R, this mode requires two transceivers / amplifiers except that instead of running on one radio while search and pounce on the other, the operator is running on both radios. Transmissions are interleaved in well defined time slots, with transmissions constantly swapping between the two radios. One may be calling CQ in its time slot, while in the very next slot the other may be sending the exchange. This is followed by the first radio responding to someone answering the CQ, and so on. The idea is to keep each radio busy, swapping back and forth between the two in a very high QSO rate. Rates of upwards of 400 QSOs per hour are theoretically possible, while actual rates in the 380s have been achieved. In short the operator is incredibly busy in the contest just keeping things going. And, if things get slow, N6MJ throws in SO3R operation so that not only is he CQing on two bands in sequence, but also S&P on a third band. Talk about busy!

NCCC July Meeting

Saturday, July 27, 2019

Everything You Need to Know About USB and Serial Interfaces" Bob, N6TV

Venue: TBD

Or visit the meeting page of the NCCC website [here](#)

Continued on page 3



Northern California Contest Club

Excellence In Amateur Radio Contesting

Officers:

President	Jack Brindle	W6FB	jackbrindle@me.com
Vice President /Contest Chair	Hank Garretson	W6SX	w6sx@arrl.net
Treasurer	Tom Carney	K6EU	treasurer.nccc@gmail.com
Secretary	Greg DesBrisay	N6GD	secretary.nccc@gmail.com
Past President	Bob Hess	W1RH	w1rh@yahoo.com
Director	David Jaffe	K6DAJ	k6daj@arrl.net
Director:	Bill Haddon	N6ZFO	n6zfo@arrl.net
Director:	Bill Fehring	W9KKN	bill+nccc@w9kkn.net

Volunteers:

New Member Mentor	Al Rendon	WT6K	wt6k@arrl.net
Charter Member	Rusty Epps	W6OAT	w6oat@sbcglobal.net
Awards Chair	Gary Johnson	NA6O	gwj@wb9jps.com
CQP Chair	John Miller	K6MM	k6mm@arrl.net
K6ZM QSL Manager	George Daughters	K6GT	k6gt@arrl.net
K6CQP,N6CQP,W6CQP QSL Mgr	Ed Muns	W0YK	w0yk@arrl.net
NCCC Email reflector Admin	Phil Verinsky	W6PK	kb-w6tqg@verinsky.com
Webmaster	John Miller	K6MM	k6mm@arrl.net
Webinars	Bill Fehring	W9KKN	bill+nccc@w9kkn.net
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
 NCCC CW Sprint
 NCCC RTTY Sprint
 NCCC Sprint Ladder
 Sprint Web master www.ncccsprint.com

Bill, N6ZFO
 Tom, N3ZZ (initially, Ken N6RO)
 Ken, K6MR
 Bill, N6ZFO
 John, K6MM.

non-NCCC:
 Thursday night Contesting Advisory Group:

Tim N3QE (Ladder Scores manager)
 N6ZFO, Bill (Chair)
 Mark K6UFO, (with W4NZ, N4AF, W9RE, K4BAI, N3BB and W0BH).
 Ken, N6RO

The Thursday night NCCC Net

So what does it take to do 2SBIQ? As hams we immediately begin thinking about the radios and antennas, but that isn't the right place to start. This is an operating mode that can take a severe toll on the body, which means it is really important to be in good health and physical shape. Regular exercise helps, to give the op stamina to be able to keep the high level of activity going. Eating properly is required, especially going into the contest, so that you can devote all your time to the effort with as few breaks as possible, No time for potty breaks!

If this is beginning to sound like athletic training, keep reading. Starting several months before his big contest (CQWW, ARRL DX and the like, operating from ZF2), Dan practices 2SBIQ every day for about an hour. His favorite program is RUFZ, which operates more like a game - speeding up when you get exchanges correct, and slowing down when you bust an exchange. He also uses Morse Runner built into DX Log in these practice sessions. Dedication is definitely required here, as it is in any competitive sport, and his efforts go a long ways to explaining why N6MJ is one of the top testers on the planet.

In just a few years contesting has gone from pencil and paper logging and manual key operation to automated keyers, to computers just for contest operation. Now we need the computers not just for during the contest, but also practicing ahead of the effort. We no longer can just run into the shack at contest time throw the big switch, and expect to have a great score, but now we need to dedicate ourselves to practicing, station building, health building and other similar efforts. Does it pay off? It is very hard to argue with the results, finishing within the top three teams in three WRTC competitions in a row.

Now, how many of us are dedicated enough to put ourselves through this rigorous training? I am very sure there are some, and I stand in awe and support of them. For the rest of us, we will continue to practice at our leisure and participate in as many contests as possible. After all, the top testers need us to be able to obtain all their QSOs!

Speaking of changes, we are seeing those in NCCC as well. After nine fantastic years as Jug editor, W6TCP has decided that he needs the time for other things. Ian has done a great job as editor, and we thank him for his efforts.

This also means that we need a new editor for the Jug. The articles are written by others, and we have a good team of folks contributing to this effort. The editor needs to gather those articles and format them into the final product. I am sure there is a bit more to it than that, and Ian can explain it since he has done it so well. If you would like to try your hand at it, be sure to talk to Ian about what is needed, and give me a shout to sign up.

This month we have a couple of club events that are definitely worth attending. The first is the Sierra Chapter Barbecue, held by N6XI and his wonderful YF (Anne) up in Truckee. This should be a fun time at Rick's place with very interesting company and discussion topics. I definitely look forward to it!

The second event is a joint meeting with the great members of the MLDXCC. This meeting always has great presentations and discussions, and gives us an opportunity to chat face to face with our neighbors (and fellow members) in the central portion of the club territory. I look forward to this one as well!

73!
Jack, W6FB

North American QSO Parties - Hank W6SX

In the 1970's, the ARRL CD Parties, which were limited to ARRL appointees (e.g., OO, ORS, ...), were a dying contest. I don't remember the exact sequence, but first they went from four-a-year, to two-a-year, to a once-per-year open contest. Out of all this came the IARU Championship. CD Party aficionados, me included, were disappointed.

I and many KBers cut our contest teeth in CD Parties. N6RO (aka K2EIU), W6OAT (aka K4BVD), W6RGG, K5RC (aka WA2GGB) come immediately to mind. For many of us, it was our favorite contest. I was not happy. ARRL CEO K1ZZ, a contester par excellence, told us something to the effect: There is nothing stopping you from creating a substitute, a new contest. NCCC and Nation Contest Journal to the rescue. After some back and forth between N6RO and K5RC, Tom, then NCJ editor, created the North American QSO Parties.

Exchange is NAME and QTH. Unlike CD Parties, mults are states and provinces, not sections. Brilliant! Easy-peasy. Casual contesters immediately know what the exchange is. Mults are per-band which helps activity late in the contest. Brilliant!

NAQPs have something for everyone. You can go for the win.

Strategy. How do you pick your ten hours? What bands to work when? Save time for eighty and one-sixty.

Mults are key. It pays to move a rare state or province if you can make it work.

Or just get on for a few hours and have fun without worrying about score.

The NAQPs are now among my favorite contests. For me, they're an opportunity to welcome and encourage new contesters. It's nice to call people by name. On CW it is easy to program a macro to say TNX BILL W6SX (with N1MM: TNX {NAMEANDSPACE}W6SX{LOG}). This makes newbies feel welcome. I also QRS for newbies.

On phone, it's even better. Greet people by name. For obvious newbies, thank them for the contact and tell them others are eager to contact them. Make them feel welcome, make them want to contest.

I encourage everyone to get on for the upcoming NAQPs. Go for a win. Go recruiting. Go for fun. Big effort or just fun, sign up for a NCCC team.

NAQP RTTY 20 July, CW 3 August, Phone 17 August.

<http://ncjweb.com/naqp/>

NAQP Exuberantly,
Hank, W6SX

Point Generator Profile – K7XC (Interviewed by Bob, W1RH)

Tim, K7XC, is our featured Point Generator this month. A quick look at 3830 shows Tim active in just about every major contest you can think of. He's NCCC all the way and often comes up with big points for the Club.

Now, a lot more from Tim:

Name/Call Sign: Tim Marek - K7XC

Past calls: KA7EBG, N7CDH, KD7DH, NC7K, A35WZ

Location: Silver Springs NV - DM09jh

How much property do you have? A 5-acre parcel with empty 5-acre lots South, West, North, and NE.

Describe your antenna system:

Current:

160M – Inverted L. 175 ft total length of wire W/30' vertical W/ rest Horiz aimed N
80/40M - Dual Band Fan Inv Vee at 38' at apex mounted under 20M Yagi
30M – ¼ wave Vertical mounted 4' above the ground with 5 elevated radials
20M – 3ele Homebrew Yagi @ 43' Part of a 1954 EF Johnson Rotatable Array Kit
17M – ¼ Wave Vertical W/Elevated Radials, 1\$ Yard sale former 5/8 CB Antenna
15M – 3ele Homebrew DK7ZB yagi @ 30 ft atop Hvy Duty Mils Suplus Mast
12M – Slopping dipole at 20ft Hung From The Tower Trailer.
10M – 4ele homebrew DK7ZB on a 18ft boom @ 28ft. Only Up during Winter.
6M – 6ele Homebrew DK7ZB on a 24ft boom @ 28ft. Only up during Summer.
2M – 16ele Modified 5WL KLM 30ft boom yagi @23ft. ½ Heliac Feedline
222 – 16ele Homebrew 4WL K1FO 18ft boom Yagi @ 30ft 7/8 Heliac feedline
432 – 27ele 9WL K1FO 25ft boom yagi @ 25ft 7/8" feedline

Future:

40M – Linear Loaded 40M Rotatable dipole @ 60ft- AB336/AG HD Mil Surplus Mast
432 – 4 x 33ele X-Polarized yagis, Completely Homebrew EME array W/Full AZ-EI
1296 – Some year I would love to be QRV on 1296 EME as well. Antenna - TBD

What's in your shack?

Flex3000 HF/6M, IC746 HF/6/2, IC-706mkIIg HF-432, refurbishing a Century21.
AL-80B Single 3-500Z-800W @ HF, Mil surplus 150W Amps for 222/432, currently integrating a pair of Harris Pallet Amps into 800W on 6M. The PC is a HP SFF Biz unit which included a I5 CPU, 1TB HD, 8GB of ram and WIN 7 64 pro for only \$199 Shipped!

How did you get started in Amateur Radio?

Back in the 1970s when I was 8 years old, I saved up my weekly allowance and bought a "P-Box SW Receiver Kit" from Radio Shack. That was my favorite place on the planet! All that great gear. Fellow electronic nerds would gather there and the Manager took a liking to me as I knew more then all his salesmen. Once he trusted me I would work under the table helping answer folks questions about CBs, SW Radios, AM/FM stereos, Antennas, Masts, Coax, you name it. It was a great education and a portal to meet others like myself, of all ages. That kit sparked my addiction to SW radio. I

carefully followed the parts identification sheet, wiring guide, instructions how to solder. Step by step instructions on parts placement, how to twist the wires correctly and verify all the connections were good and correct. Then with a bit of dad's intuition I carefully soldered all the connections careful to always use a heat sink as they said to. Dad, a precision machinist, inspected the finished product after I had and he too didn't find any flaws which made me beam with ecstatic pride at making something myself out of wires, knobs, a single transistor, etc. I split open a 10 ft chunk of 50 twisted pair phone cable scrounged years earlier and after a couple days had myself enough wire to go around the entire 4-bedroom house with plenty of spare. I used the center screw of AC outlet for ground, a 9V battery, and crystal earphone, and coils wound around an AA battery. Time for the moment of truth... I attached the battery, turned the regen control up till it squealed, back it off swished the tiny 365pf polycon variable cap till I heard something and pulling my hand away I heard "Bong... Bong... This Is Radio Moscow!" Needless to say that's all it took to begin my path to bigger and better things.

What are your previous QTH's?

Upland CA, Denver CO, Alpena MI, Phoenix AZ, Terrell TX, Reno, Fallon & Silver Springs NV.

If you're working, what is your career? If not, what was your career?

Well I started off in 1977 as an entry level printer making Data Processing pin feed labels. Over the years I worked on large Newspaper Presses, and was then cross trained in the art of stripping negatives in place to create printing plates. It was after losing my lady in 1997 That I moved to AZ to live with a friend whose boss took his word at my abilities and hired me to become an entry level technician on the Barry Goldwater Bombing & Gunnery Range in Gila Bend, AZ. Radio for me has always been a fun hobby, but when it became my career, WOW The places it took me. In 2000 I returned to Northern Nevada & was immediately hired by Lockheed Martin to work on both American/Foreign (Russian) Radar systems at the EW Range of the Fallon Tactical Training Range in Dixie Valley NV, located an hour east of Fallon on Hwy 50. December 2008, I on my way home, crossing Hwy 50 at dusk when a 82 year old man hit me hard in the driver's side door with his purple Dodge Dakota pickup. I never saw him w/o his lights on. That ended any ability of working Full time again. After several years of rehab, I am retired on disability, the chronic pain mitigated with meds and the help of a wonderful pain management specialist. I do the best I can with what I got and the amazing generosity of others. You know who you are... Thank You.

Married? Kids? Grandkids?

My lady Rosie and I met online over 14 years ago. I still say "I am the luckiest guy alive" as she LOVES "The Antenna Garden" as she puts it. She's happy to support the contest effort by keeping track of me, plenty of food, water, and 5-hour energy. We have no children other than our pet snakes... The most docile pair of Ball Pythons you will ever meet. Simple to maintain as I clean their tank once a month while Rosie feeds them live mice.

How many DXCC entities have you worked?

All but nine of them, with 312 currently in LOTW and a box full of paper QSL cards to get checked for LOTW credit, hopefully this summer. Recently I finally confirmed over 100 countries on 160M to finish up 9 Band DXCC.

What are your VHF/UHF DXCC/VUCC totals?

DXCC Worked/Confirmed on 6M are 31/50+, 2M are 23/37, 432 are 18/10.

Grid Totals on 6M a bit over 500, 2M over 160, 222 are 55, and 432 about 64. That includes Tropo, Meteors, Sporadic E, Aurora, and EME.

What are your WAS/VUCC/DXCC totals on VHF/UHF?

6M - 50 States, 467 Grids, & 50+ DXCC (4/5 Hop Sporadic E, Aurora, & Meteors)

2M - 33 States, 141 Grids, & 27 DXCC (KH6 from NV on Tropo, Meteors, Aurora, & EME)

222- 10 States, 51 Grids, & 3 DXCC (Tropo, Meteors & Aurora)
432- 21 States, 68 Grids, & 11 DXCC (Tropo, Meteors, Aurora, & EME)

What's your favorite contest?

VHF....it has to be the June VHF Contest; HF the ARRL 10/160 & both Sweepstakes. I wish there was a RTTY contest based on the SS rules and exchange. That would be Fun!

Any tips for testers?

You can't work them if you can't hear them, so what the old timer said then is valid now... Listen, Listen, Listen.

Mix it up and operate LP and QRP now and then to keep your skills sharp.

CW FOREVER! SSB sucks after a very few hours... RTTY is very cool.

We can't all be super stations so pick and choose your battles. Pick one HF band to emphasize with the best antenna you can possibly to install while willing to compromise on the others.

What would you like to see changed in NCCC?

You're not going to like it... but... I want more emphasis placed back on SS CW and SSB. Those contests are why I joined NCCC to begin with and I felt disappointed when the majority of the club abandoned it. Not all of us can make huge scores in a DX contest, myself included. My amp is 3dB down from most of you, and all my antennas, with the exception of 20M, just don't have the oomph to be competitive, especially now at the bottom of the cycle.

It wouldn't hurt to have one NCCC meeting a year somewhere in Northern Nevada. Reno does know how to support these kinds of events very well.

Any other hobbies besides ham radio?

Well, I began writing entirely by accident, as no one was reporting on what was happening in Northern Nevada/Northern California on Weak Signal VHF. I began feeding the regional VHF Journal tidbits of activity from several of us out west. Since it filled one sheet of paper, the editor just included it as is and the NC7K Report was born. That led to speaking engagements 2 or 3 times a year, which got me noticed by CQ Magazine, who was starting a VHF version. They asked me to do a monthly column that became known as "The Weak Signal News". After about 5 years it became too much and I had to back out, as life was becoming very complex at the time. Currently I am gathering data for a book I have been working on for 10 years or more. My other passion is Photography. I spent a year learning proper techniques before I went on my first Dxpedition to Tonga (A35WZ) in 1986. I was only me, an IC-730 barefoot, 100ft of RG8-X and a Butternut HF6V. I am glad I did it as some of the images I brought back are just amazing.

What are my hopes for The Future Of Amateur Radio & Contesting?

As I see it everyone who can operate CW should do so in all the various contests to prove the naysayers wrong that CW is Defiantly NOT DEAD!

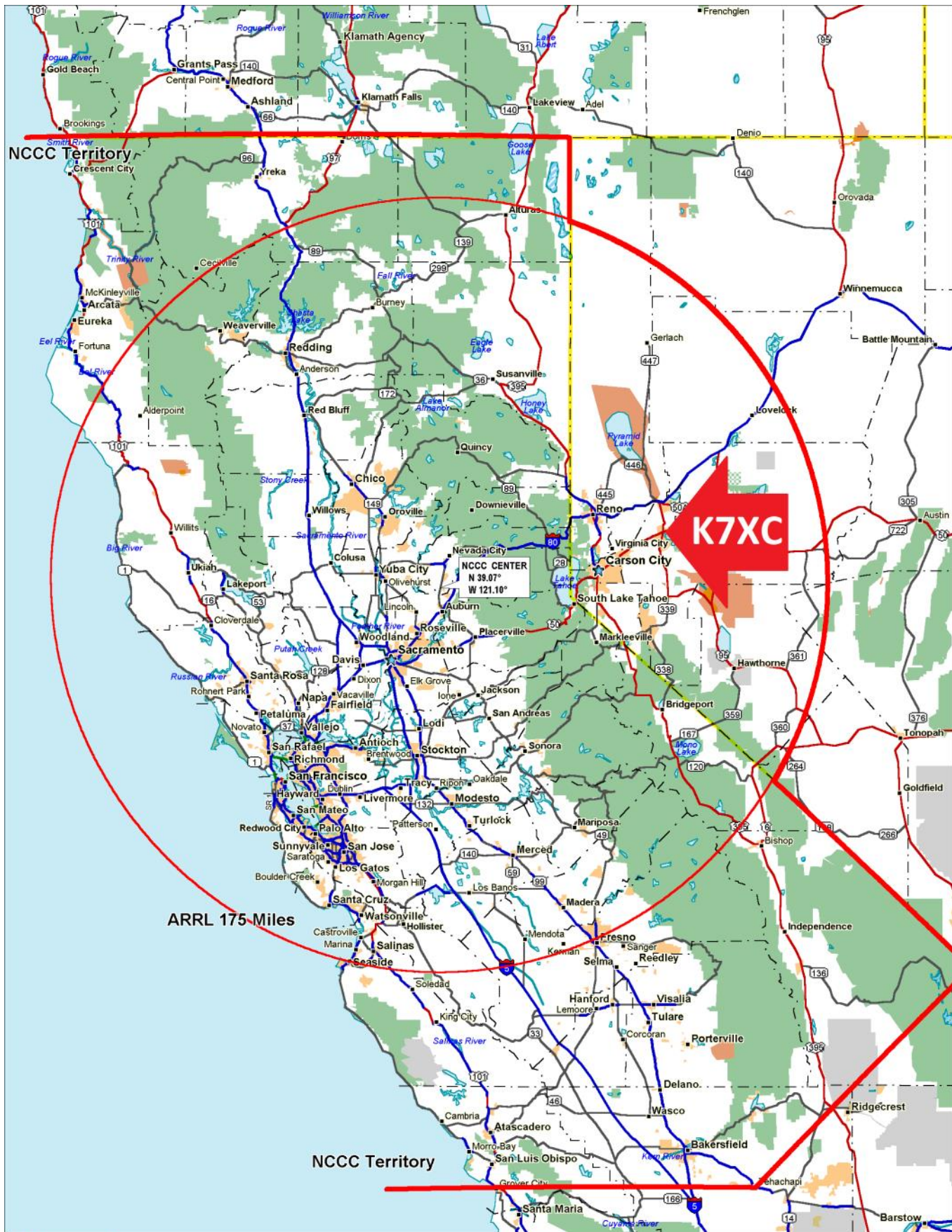
I want to start a new contest – SS RTTY! Yes, the same exchange and rules but all on RTTY. That thought has intrigued me for many years.

FT8 has given folks who don't know CW the power of it in an automated format. It has allowed them to be lazy, click a mouse now and then to complete contacts often in situations where it's not otherwise possible. The real tragedy is its lure is similar to that of any narcotic, providing a temporary high

which is soon lost once the newness wears off. It does have one unique use in that it seems to have been born for – The Fox/Hound mode used by large Dxpeditions gives anyone a chance at an ATNO regardless of the size of their station. Hopefully in time folks will return to their usual haunts to do what we all do best, engage in conversation which FT8 simply doesn't allow.







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CQP Wine



Design - NA6O
Wine - WK6I

Labeling and Distribution - W1RH and Karen

New Digital Contest

The World Wide Radio Operators Foundation (“WWROF”), in collaboration with the Slovenia Contest Club (“SCC”), is pleased to announce the first annual World Wide Digi DX Contest (“WW Digi”). The new contest taps into the excitement being generated by the new digital modes pioneered by Joe Taylor K1JT and the WSJT-X development team. The contest will occur over 24 hours on August 31 and September 1, 2019 using the FT4 and FT8 modes on the 160, 80, 40, 20, 15, and 10-meter bands.

WW Digi will utilize a distance-based scoring system to measure operators’ abilities in making DX contacts across the 6 HF amateur radio bands. Contacts will earn points based on the distance between grid square centers of the two stations. This will encourage operators to seek out long distance weak signal contacts that highlight the technical advantages of the new digital modes.

To encourage activity across all bands, a multiplier will be given for each new 2-character grid field contacted on each band. The final score will be the product of the total contact points times the number of grid fields contacted. There should be plenty of strategy required to balance distant QSOs and the need to work all available grid fields. Single and multi-operators are welcome to operate as much or as little of the 24-hour contest period as they wish.

The contest has been designed to enable making contacts utilizing standard WSJT-X software behavior, making it easy for non-contesters to participate. At the same time, the contest supports some new techniques that will encourage operating innovation, such as permitting stations to work up to three “QSO streams” on a band at one time. Robotic operation is specifically prohibited in order to keep the human element as part of the game. The full rules and other information are available on the WW Digi DX contest web site at <https://ww-digi.com>

It is fitting that the World Wide DX contest series be expanded with a fourth mode, Digi, to support evolution into ham radio’s future. Accordingly, with WWROF’s sponsorship of the World Wide Digi DX Contest, there will now be similar worldwide DX contests at the end of four successive months, August through November.

Serious contesters and casual participants alike can make ham radio history and have fun as the hobby pioneers the exciting world of digital communication. WWROF hopes the WW Digi DX Contest will attract new digital operators into contesting.

Plaques will be awarded for top scorers. Please contact the WW Digi Contest Director Ed Muns, W0YK at plaques@ww-digi.com to sponsor an award. Electronic certificates will also be available for download for anyone that submits a log. The goal is to have results available on the web site within 90 days after the end of the contest.

The Don Amyx Memorial Club Station



N6DA, Don, was first licensed as WV6TQK in 1961 when he was 13. He quickly became hooked on contests when he discovered they were an easy way to up his DXCC total. He was mentored by world-class contesters of the San Francisco Bay area and operated at a variety of top contest stations there.

Don was also a founding member of the Northern California Contest Club.

The Don Amyx Memorial Club Station was formed over the last several months. The call KN6CVM was recently granted and is to become N6DA soon, hopefully.

Take a look at the QRZ.com page for KN6CVM for some memories. If you hear KN6CVM or N6DA in a pile-up, you will know.

The annual club meeting will be held at the Visalia DX Convention, you are all free to BYOB.

Tnx and 73,
Jim W6SC and Oliver W6NV

Dean N6BV accepting his award



At last night's meeting (June 12th), Dean N6BV received his CQ Contest Hall of Fame plaque from K6MM and W6FB. Also thanks to Joanna K6YL for providing personal "Uber Service" transportation for Dean. We're all honored to know and operate with such a fine man.

-Gary NA6O

NCCC Annual KB Competition Rules

Revised March 1, 2019



Current rules and standings are always available at <http://nccc.cc/awards.html>.

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

Time period: The contest year starts at 0000 March 1 UTC. ARRL DX SSB is the first contest of the year. NAQP RTTY is the last.

Eligible contests: Currently, points from 29 contests are counted. See the table on the next page

Scoring:

Score = N_Contests * sum of (points for each contest * each contest's multiplier).

Where N_Contests is the number of contests you participated in, with a maximum value of 20. Points for all contests in which you participate are always counted.

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.

Valid scores: Only scores posted to 3830scores.com are counted. Scores obtained by use of High Power in the 6 NAQP competitions and the NS CW/NS CW Ladder series will not be counted for the KB competition, either as scores or as contest multipliers. Scores are counted regardless of which club received the contest points (NCCC, MLDXCC, REDXA, PL259, etc.). The only requirement is that you **MUST** be an NCCC member to receive credit for the contest, and to be eligible for an award.

Brackets: There are four independent brackets for the purpose of awards: 1-Platinum, 2-Gold, 3-Silver, and 4-Bronze. Brackets are assigned at the beginning of the contest year according to your final position in the previous year's standings.

Awards: Paid NCCC members may receive awards.

How to Improve Your Standing

Post all your scores on 3830. Those are the only ones that count.

Participate! Even the smallest score has value. Every contest on the list is a multiplier.

Try a new mode or a new band (VHF, 10, 160).

Try the sprints. Small score, big multiplier.

Go for a big score in WPX: Exponential score growth and a big multiplier.

Join a multi-op: The score is split among ops.

Let someone else use your station: You get 25%.

Comments are welcome, as always. I log and track every comment and suggestion and try to improve the KB Competition each year. The one thing I can guarantee is that each year will be different!

Contact: Gary NA6O, NCCC Awards Manager, gwj@wb9jps.com

NCCC Annual KB Competition Table

Contest	Month	Mult
ARRL DX Contest SSB	March 2	10
CQ WPX SSB	March 30	10
7QP	May 4	20
NEQP	May 4	150
CQ WPX CW	May 25	5
ARRL June VHF	June 8	500
RAC Canada Day	July 1	15
IARU HF World Championships	July 13	10
NAQP Summer RTTY	July 20	25
NAQP Summer CW	August 3	25
NAQP Summer SSB	August 17	25
CQWW RTTY	September 28	5
NA Sprint Fall CW	September 8	150
CQP	October 5	10
Makrothen RTTY Contest	October 12	1
CQWW SSB	October 26	6
ARRL Sweepstakes CW	November 2	15

ARRL Sweepstakes SSB	November 16	15
CQWW CW	November 23	3
ARRL 160 Meter Contest	December 6	30
ARRL 10 Meter Contest	December 13	100
ARRL RTTY Roundup	January 4	50
NAQP Winter CW	January 11	25
NAQP Winter SSB	January 18	25
NA Sprint Winter CW	February 2	150
CQ WPX RTTY	February 8	10
ARRL DX Contest CW	February 14	4
NAQP Winter RTTY	February 22	25
NCCC Sprint CW	Weekly	50

KB Award Brackets

There are four independent brackets for the purpose of issuing awards: 1- Platinum, 2- Gold, 3- Silver, and 4- Bronze. Your bracket is assigned automatically at the beginning of the contest year according to your final position in the previous year's standings. New members or those who have never posted a score to 3830 default to the Bronze level. On the left, is an alphabetical list of the current assignments to the top three brackets. If your call is not listed, you are in Bronze. If you believe your current bracket is incorrect, please contact NA6O.

Platinum	Gold	Silver
AD6E	K3EST	AE6JV
AE6Y	K6AW	AJ6CY
AF6SA	K6DGW	K0BEE
AJ6V	K6IJ	K0JP
K2RD	K6JS	K6KR
K5RC	K6MR	K6MI
K6DAJ	K6NV	K6OK
K6EU	K6RIM	K6RB
K6GHA	K6TQ	K6ST
K6LRN	K6UFO	K6TD
K6MM	KH2TJ	K6UM
K6SRZ	KH6LC	K6XN
K6XX	N0KQ	K6XV
K7XC	N2NS	K7GK
K9YC	N5KO	K7MKL
KA6BIM	N6EE	KA6W
N3RC	N6IE	KD6WKY
N3ZZ	N6JV	KE6GLA

Platinum	Gold	Silver
N6RO	N6KT	KE8FT
N6TV	N6PN	KF6NCX
N6WM	N6RK	KI6OY
N6ZFO	NC6R	KM6I
N7MH	NJ6G	KU7Y
NA6O	VE3RUA	KX7M
NW6P	W6DR	N6DE
W0YK	W6EU	N6DW
W1RH	W6FB	N6GD
W1SRD	W6IA	N6JS
W2SC	W6JTI	N6NU
W6FA	W6LD	N6XI
W6OAT	W6NV	N6YEU
W6SX	W6RC	NQ6N
W9KKN	W7IV	NR6Q
WC6H	WB6JJJ	OH1VR
WX5S	WU6W	VY1JA
		W6GJB
		W6NL
		W6RGG
		W6SC
		W6SR
		WA6O
		WE6Z
		WK6I
		WU6X
		WX6V

NCCC Life Membership!

The NCCC Life member program was introduced for a flat fee of \$250. If you are interested in becoming an NCCC Life member, please contact secretary.nccc@gmail.com

80/20 Rule:

Members who have reached 80 years young and been a NCCC Member for 20 years are eligible for Honorary life membership. Contact secretary.nccc@gmail.com

Forthcoming NCCC Meetings

July 27th,

Joint meeting with MLDXC Program Bob N6TV

Everything You Need to Know About USB and Serial Interfaces"

Venue TBD

BoD meeting minutes

The monthly minutes from the NCCC BoD meetings are available in the members only section of the NCCC website. See <http://nccc.cc/members/minutes.html>

JUG Articles Wanted!

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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 !

Tube Of The Month

Norm, N6JV

Visit the Museum: www.n6jv.com

UV815

The "UV" prefix on a tube was first used in the US to indicate that it had short pins. The "UX" tubes had long ones. The 815 was a common RCA tube from the 1940s, but used an octal socket. The UV815 was something different. In Japan before WWII, some tubes were clones of US types and others were all Japanese design. They adopted the use of the UV prefix, but numbered their tubes independently.

During WWII, there were units in the field charged with collecting anything Japanese after a battle. There were intelligence units and all the things they found was shipped to the US for analysis. A book was published in 1944 describing this information including all the radio gear. From what I have been told, there was a large warehouse in Ohio containing all this captured radio gear. When the War ended, the place was abandoned. Local Hams were permitted to go shopping inside. More tubes and equipment were picked up all over the Pacific. People are still finding things today.

When I saw an advertisement for a UV815, I had no idea what it was, but recognized that it had to be Japanese because of the UV. It was located in Hawaii and survived the shipping to California. A search of published lists and web sites in Japan were of no use. The Japanese seemed not to know its history. A tube collector, who works at a University, found a report in some old files that describes the use of a pair of UV815s in a Japanese Army, 1 KW transmitter in 1939. I have never found additional photos. The UV815 is a tetrode and stands 18.25 inches high. I imagine very few of these tubes survived the war and would love to find out where it was found.





Contest Calendar— July page 1

RAC Canada Day Contest	0000Z-2359Z, Jul 1
10-10 Int. Spirit of 76 QSO Party	0001Z, Jul 1 to 2400Z, Jul 7
IQRP Quarterly Marathon	0800Z, Jul 1 to 2000Z, Jul 7
RSGB 80m Club Championship, CW	1900Z-2030Z, Jul 1
Fireflies QRP 72 Sprint	0000Z-0200Z, Jul 2
ARS Spartan Sprint	0100Z-0300Z, Jul 2
QRP Fox Hunt	0100Z-0230Z, Jul 3
Phone Fray	0230Z-0300Z, Jul 3
CWops Mini-CWT Test	1300Z-1400Z, Jul 3 and 1900Z-2000Z, Jul 3 and 0300Z-0400Z, Jul 4
NRAU 10m Activity Contest	1700Z-1800Z, Jul 4 (CW) and 1800Z-1900Z, Jul 4 (SSB) and 1900Z-2000Z, Jul 4 (FM) and 2000Z-2100Z, Jul 4 (Dig)
SKCC Sprint Europe	1900Z-2100Z, Jul 4
NCCC RTTY Sprint	0145Z-0215Z, Jul 5
NCCC Sprint	0230Z-0300Z, Jul 5
FISTS Summer Slow Speed Sprint	0000Z-0400Z, Jul 6
Venezuelan Ind. Day Contest	0000Z-2359Z, Jul 6
DL-DX RTTY Contest	1100Z, Jul 6 to 1059Z, Jul 7
Marconi Memorial HF Contest	1400Z, Jul 6 to 1400Z, Jul 7
Original QRP Contest	1500Z, Jul 6 to 1500Z, Jul 7
PODXS 070 Club 40m Firecracker Sprint	2000Z, Jul 6 to 2000Z, Jul 7
Phone Fray	0230Z-0300Z, Jul 10
CWops Mini-CWT Test	1300Z-1400Z, Jul 10 and 1900Z-2000Z, Jul 10 and 0300Z-0400Z, Jul 11
RSGB 80m Club Championship, SSB	1900Z-2030Z, Jul 10
QRP Fox Hunt	0100Z-0230Z, Jul 12
NCCC RTTY Sprint	0145Z-0215Z, Jul 12
NCCC Sprint	0230Z-0300Z, Jul 12
FISTS Summer Unlimited Sprint	0000Z-0400Z, Jul 13
IARU HF World Championship	1200Z, Jul 13 to 1200Z, Jul 14
SKCC Weekend Sprintathon	1200Z, Jul 13 to 2400Z, Jul 14
QRP ARCI Summer Homebrew Sprint	2000Z-2300Z, Jul 14
4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Jul 15
Phone Fray	0230Z-0300Z, Jul 17



Contest Calendar— July page 2

CWops Mini-CWT Test	1300Z-1400Z, Jul 17 and 1900Z-2000Z, Jul 17 and 0300Z-0400Z, Jul 18
QRP Fox Hunt	0100Z-0230Z, Jul 19
NCCC RTTY Sprint	0145Z-0215Z, Jul 19
NCCC Sprint	0230Z-0300Z, Jul 19
NAQCC CW Sprint	0030Z-0230Z, Jul 20
Russian Radio Team Championship	0700Z-1459Z, Jul 20
Trans-Tasman Low-Bands Challenge	0800Z-1400Z, Jul 20
Feld Hell Sprint	1200Z-1359Z, Jul 20
CQ Worldwide VHF Contest	1800Z, Jul 20 to 2100Z, Jul 21
North American QSO Party, RTTY	1800Z, Jul 20 to 0559Z, Jul 21
SA Sprint Contest	2100Z-2259Z, Jul 20
RSGB Low Power Contest	0900Z-1200Z and 1300Z-1600Z, Jul 21
CQC Great Colorado Gold Rush	2000Z-2159Z, Jul 21
Run for the Bacon QRP Contest	0100Z-0300Z, Jul 22
SKCC Sprint	0000Z-0200Z, Jul 24
Phone Fray	0230Z-0300Z, Jul 24
CWops Mini-CWT Test	1300Z-1400Z, Jul 24 and 1900Z-2000Z, Jul 24 and 0300Z-0400Z, Jul 25
RSGB 80m Club Championship, Data	1900Z-2030Z, Jul 25
QRP Fox Hunt	0100Z-0230Z, Jul 26
NCCC RTTY Sprint	0145Z-0215Z, Jul 26
NCCC Sprint	0230Z-0300Z, Jul 26
RSGB IOTA Contest	1200Z, Jul 27 to 1200Z, Jul 28
ARS Flight of the Bumblebees	1700Z-2100Z, Jul 28
QCX Challenge	1300Z-1400Z, Jul 29 and 1900Z-2000Z, Jul 29 and 0300Z-0400Z, Jul 30
Phone Fray	0230Z-0300Z, Jul 31
CWops Mini-CWT Test	1300Z-1400Z, Jul 31 and 1900Z-2000Z, Jul 31 and 0300Z-0400Z, Aug 1



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).

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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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TM-V71A
2M/440 DualBand



TM-281A
2 Mtr Mobile



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The radio



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FTM-400XD
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FT-60R
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