



Publication of the
Northern California
Contest Club



Issue 542

July 2017



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President's Report

Hello KB'ers!

Well, I haven't had a lot of time to spend with the radio as of late. Cleaning out the defensible space has a bit to do with that, since I live in a high fire danger area. Today, however, I just downloaded (and paid \$199 for it) the Flex version 2.017 software for my 6700. There are some pretty cool features, including SmartLink, which supposedly is a plug and play way to remote your radio. I have yet to do this, but I know I can rely on the club's gurus, including K6TU, W1SRD, and N6WM for help if I need to. It's plug and play, so why would I need help? Right? We'll see.



NCCC Summer BBQ

Saturday 26th August

This year the BBQ will be held at Norm N6JV's QTH at 10170 Reigi Road, Wilton, 95693

Noon Social; 1:00+/_ pm Lunch

[See Page 5](#)

My wife, daughter and daughter's boyfriend (Tyler, K6TLR) just got back from a week in Ireland. We were honored to be the only Americans invited to an Irish wedding and, to put it mildly, we had a great time! Irish folks do know how to party!

Tyler and I had planned to do a little SOTA operation while in Ireland. I had purchased a really slick LiFePO4 Lithium Iron Phosphate battery prior to the trip. These are really light weight (and REALLY expensive) batteries that are perfect for stashing in a back pack. The battery I purchased, for \$140, was a 12.8V, 7AH unit about the same size as a typical gel cell used in a UPS.

Continued on page 3



Northern California Contest Club

Excellence In Amateur Radio Contesting

Officers:

President	Bob Hess	W1RH	w1rh@yahoo.com
Vice President /Contest Chair	Chris Tate	N6WM	ctate@ewnetinc.com
Treasurer	Dick Wilson	K6LRN	treasurer.nccc@gmail.com
Secretary	Ian Parker	W6TCP	secretary.nccc@gmail.com
Past President	<open>		
Director	Rusty Epps	W6OAT	w6oat@sbcglobal.net
Director:	Rich Cutler	WC6H	wc6h@yahoo.com
Director:	Ron Castro	N6IE	ronc@sonic.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	<open>		
JUG Editor	Ian Parker	W6TCP	w6tcpian@gmail.com



Northern California Contest Club

Excellence In Amateur Radio Contesting



NCCCCKB



NCCC

Visit the meetings page of the NCCC website [here](#) for details of the next meeting

NCCC Net

Thursday 8 PM
Freq: 3.610 +/-

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).

Significantly lighter, however. The idea had been to bring the battery on the plane as a carry-on but, alas, it was not to happen. Everything posted by the airlines, the TSA, and the FAA, referred to Lithium Ion batteries, but made no mention of the LiFePO4 version of a Lithium Ion battery. At the risk of having my battery confiscated, we decided on plan 2: Take the battery out of the rental car and carry it to the SOTA peak. That didn't happen either. Seems that all of the SOTA peaks around us had quite long hiking trails to get from a parking area to the peak and....well....attempting to carry a car batter a mile or two just seemed a bit crazy. We also checked out a hardware store, hoping to find a gel cell, but no luck. So, we bagged the SOTA idea and opted to clamp a Super Antenna to the deck railing, which overlooked the Irish Sea, and were finally QRV. It was a rather inefficient antenna, but 20 meters was hopping, with lots of strong European signals. Operating time was limited, however. We also spent lots of time in pubs, and sight-seeing and, of course, the wedding.

I only had about two hours to operate NAQP RTTY, since we were leaving for Ireland, but I did manage to make 136 Q's in a bit under two hours of operation. I see that we had 36 of our members submit scores but we were bested by 39 PVRC participants and a whopping 54 SMC participants. It was nice to see some big scores from Team 1 which was chosen perfectly by our VP/CC, N6WM. Our Team 1 participants were the top five scores in the club. The Team 1 total claimed score was 451,721, slightly under SMC 2's score of 459,155.

The NCCC #1 Team:

130,806 - W7RN (WK6I)

103,509 – N6WM @ N6RO

84,632 - K6MR

75,894 – N6IE

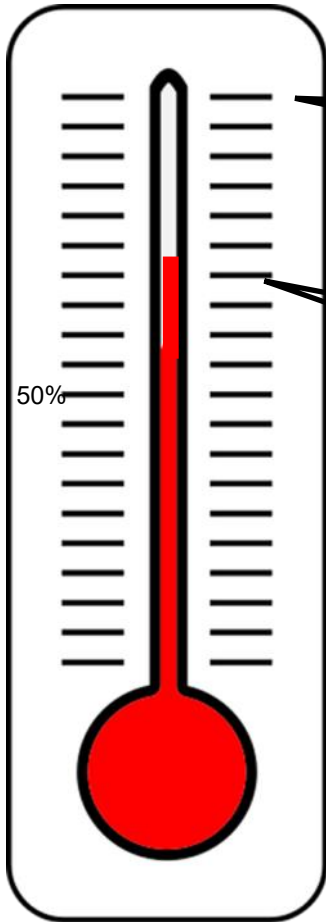
56,880 – W1SRD

Nice job, guys!

We've NAQP CW and SSB coming up in the next few weeks. Remember, participation is a big part of the NAQP Three Club Challenge, so I hope to see a lot of you on the air.

The NCCC BBQ this year will be at N6JV's station, in Wilton. I know you've all seen Norm's Tube of the Month articles in the Jug. Now, you will actually be able to see one of the finest transmitting tube museums anywhere – right at Norm's house. The date is Saturday, August 26th. Hope to see many of you this year, in Wilton, which is not a bad drive from most parts of NCCC territory.

2017/2018 Membership Dues



Member count 2016/2017
~197* See below
Goal for 2017/2018 is 197!

Current Renewals Stand at:
169 or 85%

Current Membership Renewal stands at **85%** of last year.

Please renew your dues promptly!

Look for the renewal email or go to the NCCC website and under the “membership page” scroll to the foot of the page and Sign in using the button.

Prior to July 1st 2017 our Membership stood at:		Current # as of July 31st	
2017:			
Clubs	63	65	
Life Members	9	13	
Paid Through 2017	185		
Paid Through 2018	11	163	
Paid Through 2019	1	6	
Non—Paying Members	44	82	
Total	313	Total	317



**SUMMER
BBQ**

Tube Museum @ N6JV

**10170 Reigl Road
WILTON, CA 95693**



Time

12/Noon Social Hour; 1:00 pm Lunch (approx.)

Payment

Payment of \$20 person or \$30 if you bring XYL / YL / Partner. Payment can be made using the invite link or at the event with hard cash.

Sign up here : <https://www.memberplanet.com/events/nccckb/august>

Grub:

BBQ / Vegetarian option will also be available.



VP/CC Report

Christopher Tate, N6WM

N6WM@largeradio.org



The continuing evolution of RadioSport.. Now a spectator sport?

The evolution of information technology continues to affect amateur radio in a multitude of different ways. From new SDR technology that changes the way we get on the air, to remote technologies that can put us in a DX location without the need to travel there, Aspects of our pastime are evolving and changing faster and faster as the rules of computer technology influence amateur radio.

One of these technologies that has recently touched our RadioSport pastime is something that has been referred to as, Live Scores. Amongst my many commitments to the hobby, I am a contributing author in QST Magazine, where I recently touched on this subject while writing the ARRL DX Phone contest results article.

The NCCC was introduced to Live Scores for the first time in the summer run of NAQP RTTY. With a Live Scores server, teams of competitors share aspects of their competition in real time. Information from contemporary loggers, Like N1MM+, Writelog and DXLog.net are able to feed data to a web server, that then can aggregate that data and display things like current scores, mults, etc. on a web page or application that can be considered a real time scoreboard, such as those used in todays spectator sports.

There are a number of reasons why use of this technology is gaining momentum.

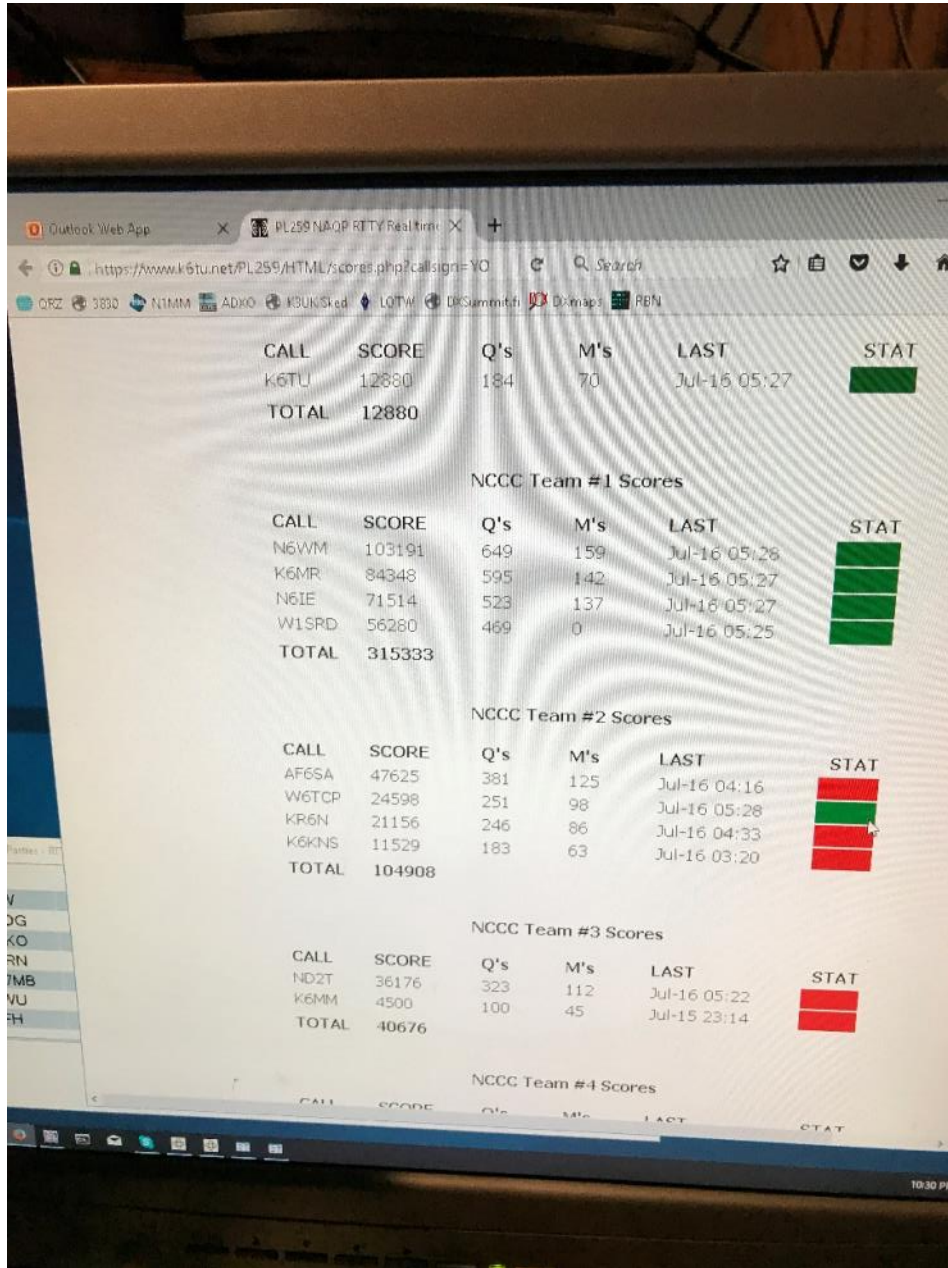
To benefit the competitor

Until recently, when an operator chose a contest to operate, one would perhaps review past performances, formulate a strategy and then sit and operate a contest without any real idea how there competitors were doing. Operators would then go to a net on a particular QRG, for instance, 3.830 LSB to share our post contest results.

Unable to reach all the competitors who participated, we then started to leverage the Internet, and email reflectors were created to do the same. 3.830 LSB became the 3830 e-mail reflector. The thirst for more information, centrally located and need for fast review demanded that 3830 reflector

evolve to full blown web page application, thus the 3830 reflector becomes 3830scores.com. But still, as in todays sport environment, just like our younger video game generation the thirst for real time feedback on performance continues.

With live scores, we can watch an amateur radio competition unfold in real time. Thinking of taking that break? Glance over to the scoreboard and see how your closest competitor is progressing. In the mid contest doldrums? Glance over and get some motivation to overtake a fellow competitor and re-energize your effort. This gives yet another view of the playing field of radiosport!



NCCC teams on the real time scoreboard after the finishing bell

To benefit the team

Team RadioSport is another aspect that benefits greatly from live scores. If for instance you have a group with a common goal, one can see the progress of the group real time as it unfolds making set-

ting and meeting milestones that much easier. In small team competitions, such as NAQP, all the teams can be viewed and their collective progress monitored.

And now.. To benefit the spectator!

In the past, RadioSport was not the best venue for a spectator. Perhaps people would tune the bands, listen to running stations.. but what about family, friends, the media? Now all of them can get involved in RadioSport by watching competitions, being excited and intrigued with “horseraces” between stations. Operators can provide the scoreboard to their families! Recently my kids were rooting me on from home as they watched my performance on the scoreboard. What was once the odd pastime Dad does on the weekends is now something they can see, and indeed appreciate!

Looking ahead - Live Scores is, and needs to be the future of RadioSport.

My predecessor as VP/CC Steve, W1SRD summed it up the best on a recent reflector post. And I quote,

“I think it will take things like livenesscores to save contesting. New generations expect immediate feedback for their gaming. Sports give immediate feedback. Why would a contest be any different? Adjudication could be done near real-time as well which could open up a whole new dimension of competition and excitement”

As the ranks of contesters age, we need new operators to help our sport make it to the next level. The younger generation is accustomed to instant feedback with their video game competitions, and indeed the mainstream sports world has seen and heard this, loud and clear and are also providing real time scoreboards on the Internet.

Although some of you may gravitate toward nostalgia and the way things “used to be”, the future lies in real time feedback, and since the data is being produced real time, the next step may very well be real time adjudication as scores are fed to computers, and certification of a contest minutes, and not weeks or months afterward.

It is my opinion that the path to the future of RadioSport is clear. Not only is livenesscores here to stay, it’s also simply a stepping stone to the future of participating and adjudication of our sport. As your 2017-2018 VP/CC I intend to leverage this technology as best I can for the benefit our membership. The future is exciting indeed!

73 and KB
Chris – N6WM

NAQP RTTY While Visiting Nevada

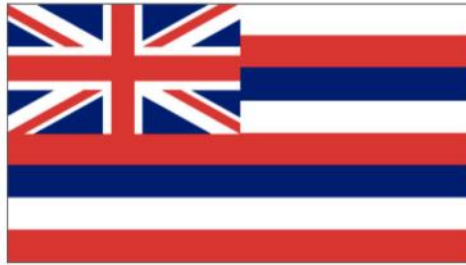


This was my first semi-QRP (10 W) contest operation, sitting outside the hotel in Virginia City, NV, after a tour of W7RN. I borrowed the KX2 and Alex Loop from W6TCP (thanks, Ian!). It worked amazingly well at this altitude, much better than from my back yard in Livermore.

Best DX was ZF, KH6, and NH for a total of 19 QSOs in about 1.5 hours. I must say that the KX2 is a remarkably capable little radio and the RTTY decoder worked quite well. It was nice to be able to send short RTTY fills with the paddle. And the view was rather nice too.

Gary NA6O/7

Hawai'i QSO Party 2017



August 26-28

Time to have some fun. The Hawai'i QSO Party will soon be held again this year, and you're invited.

It's time to get "radio-active". The rules have been revised to be more in - tune with other state QSO parties, but it's basically the same as before. Get on the air, make a bunch of QSOs, have some radio fun.

Please take a look at the web site: <http://www.hawaiiqsoparty.org/>

The event starts at 0400Z Aug 26 and runs through 0359Z Aug 28; That's 48 hours total, and you can operate as much of that time as you want.

Hawaiian stations work anyone, anywhere, on any legal HF mode: CW, SSB, or any of the many digital modes. If you're not in paradise, concentrate on working Hawai'i.

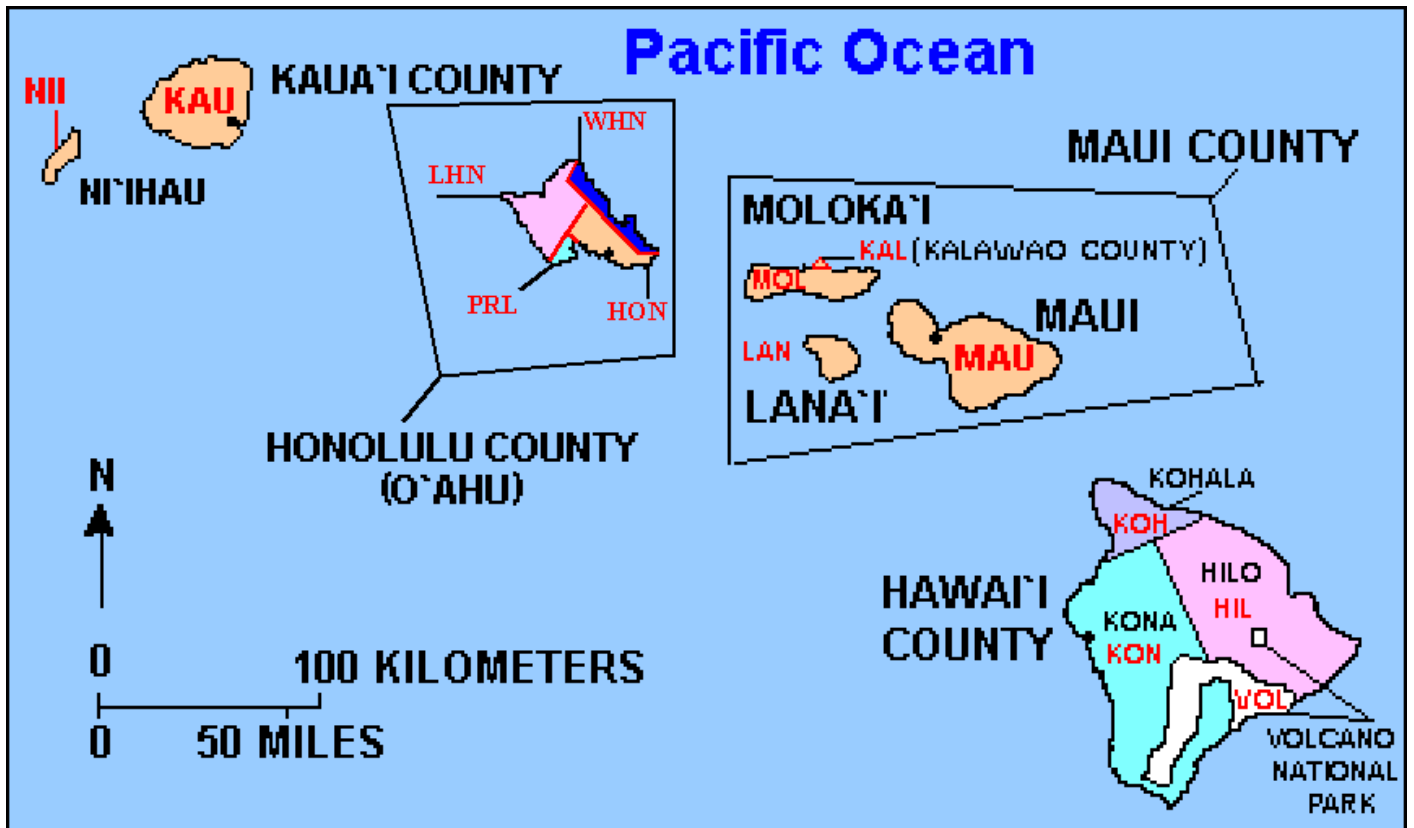
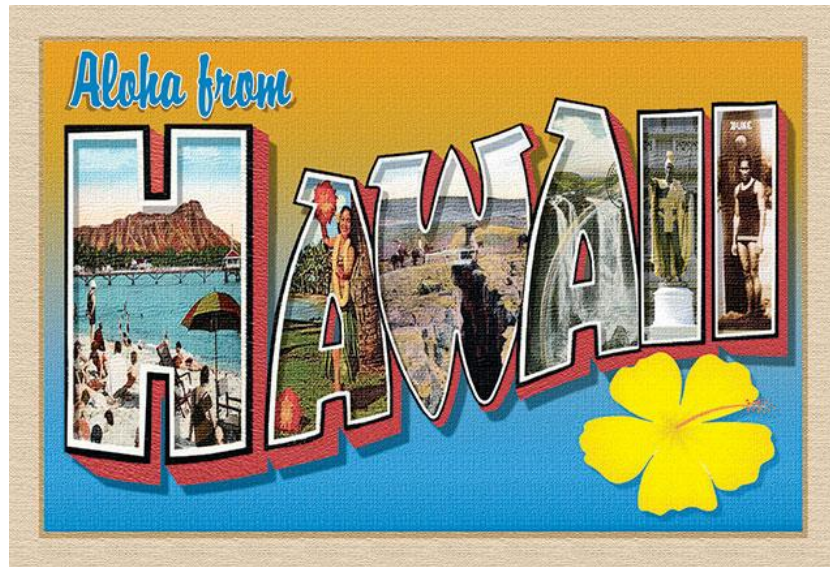
Since HI has only five counties, we've expanded the usual QSO party multiplier list into regions which makes this more challenging.

<http://hawaiiqsoparty.org/Rules/HQP/QTHIDs.html>

Please note that using a spotting system is OK. The object is to work more KH6 stations and this is a very good way to find them. Please do not "self-spot". That's not considered good gamesmanship and will lead to a DQ.

The Hawai'i QSO Party is an event to promote HF operation from the unique Hawai'i destination in the Pacific. Hawai'i is an ARRL DXCC entity as well as the nation's 50th state needed for the ARRL WAS Award.

Aloha & 73, Alan AD6E / KH6TU



BOD Meeting Minutes & Actions
Tuesday 25th July
6pm Local

Attendees:

Ian W6TCP
Bob W1RH
Dick K6LRN
John K6MM
Gary NA6O
Rusty W6OAT
Chris N6WM

Apologies:

Rich WC6H
Ron N6IE

Minutes from last Month (Ian)

The minutes from the last meeting were distributed shortly after the last BOD meeting. The BOD minutes now also appear in the JUG each month.

2) Open Topics

2.1 Elections

We had discussed putting a list of potential candidates together to avoid the last-minute selection of officers. This is ongoing and will be discussed at each of the BOD meetings. To date, we have one potential on the list. More work is required in this space.

2.2 501c3 Status

Status was granted to NCCC thanks to Norm's help (RIP Norm). Bob W1RH has notified the members via the reflector (and JUG).

Rusty W6OAT mentioned that anyone donating to the Club will need to get a receipt if the amount of the donation is \$200 or more. If someone were donating hardware/equipment, we would provide a receipt and the donor would determine the value.

NCCC also needs to file an annual Form 99N state and IRS. We also need to file a RRF1 with the California Attorney general. We also need to be clear on the dates of our Fiscal year ~Jan 1 – Dec 31st

Ian W6TCP, Dick K6LRN, Rusty W6OAT etc. will circle back on this and document for future officers. This topic will stay on the BOD meetings/Agenda until were clear on what we need to do, when we need to do it and how we will do it.

Bob W1RH mentioned that as we are a Dues optional club the dues are Tax deductible to the member. Bob asked that we discussed this in more detail at a future meeting.

2.3 Life Membership & New member Applications

Three Life member applications were received and duly voted in by the BOD. The member then since paid and converted to Life member status. The new NCCC life members are:

Rick N7TR
Mike N7MH
Bob N6TV

We received two new member applications. Bill W9KKN and Larry KF6NCX were voted in at the July 11th Meeting.

2.4 NCCC Clothing Store

Ian W6TCP is looking at options of having an on-line store so we can offer members various types of clothing and other items. Hopefully, the information will be ready to review at next month's BOD meeting.

3) 2017/2018 Membership renewals.

Membership renewals stand at 85% of last year. There were five members who renewed for the first time in several years. We now have 82 non-paying members, up from 44 last year.

Next phase is for Ian W6TCP to reach out to the non-paying members to see if they wish to renew/donate and join NCCC. If a member wishes to pay by check/Cash this is always an option.

Rusty W6OAT mentioned that now we have 501c3 we can write to them and let them know that contributions to the Club are now tax deductible.

4) 2017 Task List.

We reviewed the NCCC Task list.

Chris N6WM will update his items.

5) KB Awards (Gary)

Gary NA6O is working on the WACC award and send to Fred K6DGW for review.

Gary will donate a PC for processing the KB awards to NCCC and this will be used by Matt WX5S but will remain the property of the Club. We will need to obtain the serial number and place this on the NCCC Asset list.

Ian W6TCP is continuing to run the KB article in the JUG and will continue to do so until otherwise notified by Gary.

6) Budget Report (Dick)

Dick Provided the Budget report. There were no questions for Dick.

Bob W1RH mentioned that the donation to the WRTC 2018 can now be made. Dick K6LRN had made the contribution and is pending confirmation from the WRTC folks.

7) New Items for discussion

7.1 VM server – Chris N6WM

NCCC used live scores for the first time in NAQP RTTY and this trial was very successful. Chris would like to set up an ongoing server for NCCC use. Chris made a motion for an ongoing amount of \$10 per month (not to exceed) for the use of Live Scores. This was seconded by Ian W6TCP and the BOD members in attendance approved the motion. The motion was carried.

Chris N6WM mentioned he might also be able to get this a lot lower than the approved \$10.

Chris N6WM also thanked Stu K6TU for the loan of Livescores and the code for NCCC and the assistance getting it set up.

7.2 PL259 RTTY sponsored contest – Chris N6WM

Chris N6WM would like to ask the NCCC, to sponsor one or more than one if possible. Chris N6WM made a motion to sponsor 3 plaques at \$100 each for a total of \$300. This is an international Contest and such the cost of shipping is higher.

This was seconded by Ian W6TCP and the BOD members in attendance approved the motion. The motion was carried to sponsor \$300.

Dick K6LRN mentioned that each year the BOD will need to review the plaques/awards that the NCCC sponsors to make sure that we wish to continue to sponsor them.

7.3 RTTY RU – Bob W1RH

Bob W1RH and Stu K6TU had a discussion regarding RTTY RU. NCCC most likely will not make RTTY RU a focused contest. This doesn't preclude members from taking part of course.

7.4 Bylaws Updates – Ian W6TCP

We are tracking 3 bylaws changes 1) 501c3 2) April meeting not being used for NCCC elections as it clashes with INDXCC so there for move the elections to March or May 3) 250 Mile circle.

This is not urgent but Bob W1RH and Ian W6TCP will speak off line and prep these changes. Target completion for this is before WPX commences in Feb 2018.

7.5 PC for KB automation – Gary NA6O

Gary will be donating to NCCC.

7.6 K5RC contest – Chris N6WM

Chris N6WM will reach out to Tom. It's to be left on this list for further discussion/update.

7.7 Repeater – Ian W6TCP

Ian W6TCP and Bob W1RH will meet with Bob W6RGG

7.8 Honorary Life Membership – Ian W6TCP

Ken N6RO applied for Life membership. The BOD met and discussed this and Rusty W6OAT made a proposal to make 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.

Seconded by Chris N6WM, Approved by the other BOD. Motion carried.

Congratulations to Ken N6RO. Ian W6TCP will email Ken with the good news.

8) Meetings for 2017

All meetings are planned. Chris is working on the meeting presentations and we also need to find something for the December meeting.

The NCCC BBQ will take place on Aug 26th. A separate call will occur on this. NCCC invites will hit the streets 7/31!

9) CQP

Ian W6TCP has built the T-Shirt and Plaque page and will send to John K6MM for review.

John K6MM and team have revised the Rules. This was discussed in more detail and further discussions will take place.

10) AOB (All)

Chris N6WM

Spoke about the goals of the club. Chris will meet with Rusty and other members of the committee and the group will start reaching out to other members.

Dick K6LRN

Before Norm passed away we were discussing a life membership for him. Dick made a motion to donate \$250 to an ARRL fund in Norms honor. Bob W1RH thought that Spectrum Defense would be most appropriate.

Dick will make the donation and Bob W1RH will let Norms XYL know. Bob will also let Carol KP4MD, Sec Manager.

Member Planet Fees – Ian W6TCP and Dick K6LRN will discuss this further.

Ian W6TCP

We still need an AV person!

Meeting ended at 7:20pm

##END##

Recorded by Ian W6TCP

NCCC Secretary 2016~2018

JUG Editor 2011 - present

+1 925 405 5835

w6tcpian@gmail.com

NCCC Meeting Dates ~ 2017

Saturday August 26th, 11am, N6JV's QTH (see the reflector for details)
Annual BBQ

Saturday September 30th, 11am, El Tapatio 40 Golf Club Rd, Pleasant Hill, CA 94523
Program CQP, County DX-peditions

Tuesday, October 10th Sneha 1214 Apollo Way, Ste 404B, Sunnyvale, CA 94085
Program, TBD

Tuesday, November 14th, 6PM, Tied House 954 Villa St, Mountain View, CA 94041
Program, TBD

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

NCCC is now a non-Profit 501(c)3

I'm pleased to announce that our 501(c)(3) non-profit status is now official with both State and Federal. Ian received the official papers today.

Thanks to my good friend, Norm WB6RVR, who made this happen. Norm passed away a couple of weeks ago. He had been checking with both me and Ian weekly asking for status.

Norm, if you're QRV up there, you did it!

We will have more to say about the non-profit status, but suffice it to say that things like plaque sponsorship, and possibly dues, can be written off of your taxes as donations.

Bob
W1RH

NCCC Annual KB Competition Rules



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.

Paid NCCC members may receive awards.

NCCC Annual KB Competition Table

Contest	Month	Multiplier
ARRL RTTY Roundup	January	50
NAQP Winter CW	January	50
NAQP Winter SSB	January	50
NA Sprint Spring 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	TBD
Ontario QSO Party	April	TBD
7th Area QSO Party	May	TBD
New England QSO Party	May	TBD
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
NA Sprint Fall SSB	October	100
CQP	October	20
JARTS RTTY Contest	October	5
CQWW SSB	October	1
ARRL Sweepstakes CW	November	20
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

Honorary Life Membership (80/20)

The BOD met and discussed having an Honorary Life Membership.

Rusty W6OAT made a proposal to make 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.

This was discussed by the BOD and the motion passed.

Congratulations to Ken N6RO Honorary Life Membership #1

AV Support

We are looking for a AV / Webex volunteers to help run the AV and webex for the meetings.

Please contact Bob W1RH if you are interested....

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



WORLD RADIOSPORT TEAM CHAMPIONSHIP JULY 12-16, 2018



Our way to 2018

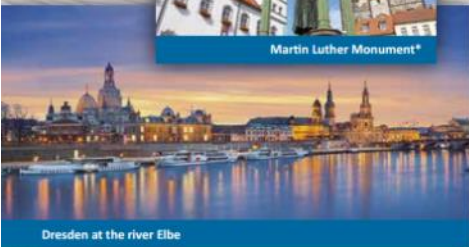
Having been elected to host the WRTC 2018 in Germany is a great honor, a thrill, and a big challenge for us. The critical tasks have been clearly defined. Dedicated and highly motivated teams are addressing the challenges.

For the competition itself we have chosen the Jessen area south of Berlin for its flatness providing level playing fields for all competitors. Jessen is strategically situated between the German capital of Berlin and such fascinating historic cities like Dresden and Leipzig.

Nearby you find important cultural attractions, e.g. the historic city of Wittenberg where Martin Luther launched the Protestant Reformation in 1517. Additionally, the scenic countryside and a lot of entertainment will make the WRTC an exciting experience for families and friends as well.



Martin Luther Monument*



Dresden at the river Elbe

* Source: Lutherstadt Wittenberg Marketing GmbH ©

We need your support!

You need deep pockets to finance such a huge event. Our preliminary cost estimates add up to close to half a million US Dollars and cannot be shouldered by the German contesting fraternity alone. We need substantial financial support of contesters from all over the world, from contest clubs, individuals and business. Any amount is welcome! We will do our level best to translate this support into an event that is worth to take part in - be it as a competitor or spectator, either on the spot or remotely via Internet. You are welcome to donate via PayPal to:

spende@wrtc2018.de

or to use wire transfer (see Web Page for details).

For US taxpayers

The World Wide Radio Operators Foundation (WWROF) is recognized by the IRS as a tax-exempt public charity. In order to be eligible for Income Tax treatment of your donation to WRTC 2018 just contribute to WRTC2018 in one of the following ways, either via PayPal to:

WRTC2018@wwrof.org

or by check - remit and mail to:

WWROF Inc. - WRTC2018 Fund
P O Box 10424
Midland, TX 79702



Note: It is important that mailed contributions include notification that the donation is specifically for WRTC2018.

Contact the WRTC Team

www.wrtc2018.de
contact@wrtc2018.de

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WORLD RADIOSPORT
TEAM CHAMPIONSHIP

Welcome to Germany!



Proud bronze medalists at WRTC 2014 - Manfred Wolf, DJ5MW and Stefan von Baltz, DL1IAO (Foto: DK9IP)

Competition with Friends

Lifetime Experience

Make it happen!

Contesters' Olympics



WORLD RADIOSPORT TEAM CHAMPIONSHIP JULY 12-16, 2018



Welcome to Germany

Germany has been awarded to stage the WRTC 2018. The Federal Republic is subdivided into sixteen federal states such as Bavaria or Saxony. Some 80 million inhabitants share a plot of less than 140 thousand square miles, about the size of the US state of Montana. Sometimes the German language is criticized for its harshness; however, a countless number of students around the world start learning German every year as it offers an insight into a fascinating culture and a world ranked economy.

Radiocommunications in Germany



Heinrich Hertz

Here the fundamentals of wireless communication have been developed as young Heinrich Hertz has proved the existence of electromagnetic waves and Nobel Prize Winner Ferdinand Braun introduced the closed tuned circuit as part of the radio transmitter.

The German Hams were late bloomers after all, as only after WWII a more liberal legislation made a wide ham culture possible. Today Germany is the home base of the world's second largest contest community hosted by two notable clubs: the Bavarian Contest Club (BCC) and the Rhein Ruhr DX Association (RRDXA). That is why you will find such a great number of German call signs in your log as well as multipliers from German radio activities like CR3L or VK9LM.



WRTC 2018 in Germany

World Radiosport Team Championships (WRTC) are being held every four years. More than 60 of the best 2-OP-teams from all over the world meet for a competition. Quite different from other radiosport contests, competitors in WRTCs operate with identical power and antennas on level playing fields from the same geographical region eliminating all variables except their own operational skill. Previous WRTCs were held at Seattle/USA (1990), San Francisco/USA (1996), Slovenia (2000), Finland (2002), Brazil (2006), Russia (2010), and New England (2014).

To participate in WRTC 2018 teams have to qualify in up to 28 different HF contests during 2015 and 2016. Qualification started with the ARRL-DX-CW contest 2015.

To watch your own qualification standings and those of all of your competitors or friends at any time, have a look at our website www.wrtc2018.de. The standings are regularly updated after receiving the results from the contest organizers of each qualification contest.

Area rank	Operator	Qualification points	Quantity mark
1	DL2 KSL	788	8
2	DL2 GFK	742	10
3	DL2 KQK	726	9
4	DL2 SP	673	8

WRTC - Fieldday Style



Catch the organizers

The members of the WRTC 2018 Organizing Committee are active in many contests using special event call signs like "DLØWRTC" or "DKØWRTC". They are active on all bands from 160m up to 3 cm from various locations in Germany. They hand out the special DOK "WRTC" for DARC awards.

Enjoy the award program

WRTC 2018 sponsors the "Worked WRTC Qualification Regions" award. You can apply online for the WWQR Award via dci.darc.de. It can be worked on an annual basis in 3 classes, in different modes and on different bands. It shows European radio pioneers on a background in black, red and gold representing the colours of the German flag. Your application will support WRTC 2018 with a small donation.



Germany calling!

Competition with Friends

Join the Fun

K6XX, K6GHA, KW6S photos at DM4X ~ IARU 2017











NCCC General Meeting—July 11th Sneha Restaurant—Sunnyvale

Thirty four members and guests joined us for the NCCC meeting that took place on Tuesday 11th July. A further nine attended via WebEx.

N6WM, N6AJS, K6EU, WA6O, KG6O, KZ2V, WA6O, N6NZ, N6KT, N6SJ, N6DE, K6MM, W6FDU, NS6T, N6TV, KK6DF, AE6Y, K7NV, AI6JZ, N6XI, W6OAT, W6XB, N6RK, K6GT, NW6P, ND2T, NA6O, W9KKN, AI6JZ, N3ZZ, W6CT, W6TCP, K6RBT, XE2K

Chris, N6WM was MC for the meeting. Chris outlined the strategy for the upcoming contest season!

Two new members were voted in;

Bill W9KKN and Larry KF6NCX. Neither wasted time starting earning points. Bill was active in the NAQP RTTY contest and Larry jumped right into the Sprints and IOTA !



NCCC General Meeting—July 11th



Point Generator Profile

By Bob, W1RH

When I do these Point Generator Profiles, I don't just pick out club members at random. I look for scores posted to 3830. Todd, KH2TJ, who often operates with his club call, W7TR, is one of those we often see making points for the Club. We can almost always see Todd supporting our Focus Contests, such as WPX and NAQP. He placed #77 in the 2016-2017 KB Competition, with a very basic station.

Now, more from Todd:

Name/Call Sign: Todd Remington KH2TJ

Past calls: WD6AHV, KG4TR Guantanamo Bay, Cuba 1985 - 1986

Location: Portola, CA

How much property do you have? Small city lot

Describe your antenna system: C3SS with a homebrew 44' rotating dipole up about 45' on an AB-577 mast. Set up temporarily about 3yrs ago. 80M dipole up about 35'.

Future: A new tower someday with a nice stack of mono banders. Oh, and something for 6/2M as well...Have been looking at getting on the birds too...

What's in your shack? .Current rig is Kenwood TS590s. Backup rig is an older Drake TR-7 which I mostly use for SWL'ing. Recently treated myself to an Elecraft KX2 for my 40th annv in this hobby! It replaces the old FT-817 used mainly for SOTA ops

What are your previous QTH's? Grew up in Linden, CA. After high school set out for a 13yr adventure courtesy of Uncle Sam. Spent quite a few years overseas. Okinawa, Korea, Vieques Island - Puerto Rico, Cuba, Guam, Philippines, couple of NATO floats, a couple tours in North Carolina, Virginia, and Florida, and one tour in my homestate with the 1st Marine Division @ Camp Pendleton. Lots of TAD trips in between too. We were busy...

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

Locomotive Engineer for the Union Pacific Railroad past 24yrs.

USMC 13yrs Signals Intelligence and Electronic Warfare

Married? Kids? Grandkids?

Married lovely wife Margaret going on 30yrs now. Seven beautiful children and just recently became grandparents times two! ;-)

How many DXCC entities have you worked? Never really kept tracked due to my constant relocation during my military career.

What's your favorite contest? I really enjoy the CQP. NCCC does an awesome job and every year it just get better and better.

Any tips for contesters? For us newer guys in the club, I say watch and listen to the older guys. They've been doing this for a long time! I've been fortunate here the past few years in being able to operate up at W7RN and pick up some tips from some really great Ops.

What would you like to see changed in NCCC? I think it's been mentioned and the club is working on it, but I'd like to see the meetings on line for us guys that live out on the fringes and can't make the regular monthly meetings.

Any other hobbies besides ham radio? I like being outdoors. Kayaking, hiking, and anything having to do with exploring new areas (SOTA Peaks! Of course that KX2's going to be coming along too)



KH2TJ—Shack





SOTA

TUBE OF THE MONTH

Visit the museum at N6JV.com

Norm N6JV

TYPE “U” Pliotron

Early vacuum tubes were often given names and not numbers. In 1913 the General Electric Company decided to give names to reflect the characteristics of the different types of tubes they were experimenting with. I guess it was fashionable to use Greek or Latin names, as was the practice when naming new species. Pliotron was chosen for the triode tubes. Pleion in Greek is “more” and tron is an instrument. A pliotron gives you more or it amplifies. GE produced many tubes during World War I for the military. Commercial use of transmitting tubes essentially didn't exist. Near the end of the war, more powerful tubes were being made. A 50-watt version was especially useful and designated the “U” Pliotron. It used a special bayonet socket. Today this size and shape of tube and the socket are still called “50 Watter”. Insulation between the four pins was made of mica and very weak.

About 1200 of these tubes was made for the Navy who gave it the designation CG-1144 and 200 for the Army who called it a VT-18. The Navy used these tubes in their seaplane transmitters. This tube was a natural for commercial and amateur radio equipment, so after the war ended, GE came out with an improved tube designated the UV203 and was a big hit with hams who could afford it. For the next 30 years the 50 watter was modified and improved. The construction of the 203 limited its upper frequency, but this shape of tube is still very popular in audio as in the 211 and 845 types.

More photos at <http://n6jv.com>.

TUBE OF THE MONTH

Visit the museum at N6JV.com

Norm N6JV



U_S

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 !

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.



Contest Calendar— August page 1

Phone Fray	0230Z-0300Z, Aug 2
CWops Mini-CWT Test	1300Z-1400Z, Aug 2 and 1900Z-2000Z, Aug 2 and 0300Z-0400Z, Aug 3
NRAU 10m Activity Contest	1700Z-1800Z, Aug 3 (CW) and 1800Z-1900Z, Aug 3 (SSB) and 1900Z-2000Z, Aug 3 (FM) and 2000Z-2100Z, Aug 3 (Dig)
QRP Fox Hunt	0100Z-0230Z, Aug 4
NCCC RTTY Sprint	0145Z-0215Z, Aug 4
NCCC Sprint	0230Z-0300Z, Aug 4
10-10 Int. Summer Contest, SSB	0001Z, Aug 5 to 2359Z, Aug 6
European HF Championship	1200Z-2359Z, Aug 5
WAB 144 MHz Low Power Phone	1400Z-1800Z, Aug 5
ARRL 222 MHz and Up Distance Contest	1800Z, Aug 5 to 1800Z, Aug 6
North American QSO Party, CW	1800Z, Aug 5 to 0559Z, Aug 6
SARL HF Phone Contest	1300Z-1630Z, Aug 6
ARS Spartan Sprint	0100Z-0300Z, Aug 8
NAQCC CW Sprint	0030Z-0230Z, Aug 9
Phone Fray	0230Z-0300Z, Aug 9
CWops Mini-CWT Test	1300Z-1400Z, Aug 9 and 1900Z-2000Z, Aug 9 and 0300Z-0400Z, Aug 10
QRP Fox Hunt	0100Z-0230Z, Aug 11
NCCC RTTY Sprint	0145Z-0215Z, Aug 11
NCCC Sprint	0230Z-0300Z, Aug 11
MMMonVHF/DUBUS 144 MHz Meteorscatter Sprint Contest	2200Z, Aug 11 to 2200Z, Aug 13
WAE DX Contest, CW	0000Z, Aug 12 to 2359Z, Aug 13
SKCC Weekend Sprintathon	1200Z, Aug 12 to 2400Z, Aug 13
Maryland-DC QSO Party	1600Z, Aug 12 to 0400Z, Aug 13 and 1600Z-2400Z, Aug 13



Contest Calendar— August page 2

4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Aug 14
Phone Fray	0230Z-0300Z, Aug 16
CWops Mini-CWT Test	1300Z-1400Z, Aug 16 and 1900Z-2000Z, Aug 16 and 0300Z-0400Z, Aug 17
QRP Fox Hunt	0100Z-0230Z, Aug 18
NCCC RTTY Sprint	0145Z-0215Z, Aug 18
NCCC Sprint Ladder	0230Z-0300Z, Aug 18
SARTG WW RTTY Contest	0000Z-0800Z, Aug 19 and 1600Z-2400Z, Aug 19 and 0800Z-1600Z, Aug 20
ARRL 10 GHz and Up Contest	0600 local, Aug 19 to 2400 local, Aug 20
Russian District Award Contest	0800Z, Aug 19 to 0800Z, Aug 20
Keyman's Club of Japan Contest	1200Z, Aug 19 to 1200Z, Aug 20
Feld Hell Sprint	1600Z-1759Z, Aug 19
North American QSO Party, SSB	1800Z, Aug 19 to 0559Z, Aug 20
CVA DX Contest, CW	2100Z, Aug 19 to 2100Z, Aug 20
SARL HF Digital Contest	1300Z-1630Z, Aug 20
ARRL Rookie Roundup, RTTY	1800Z-2359Z, Aug 20
Run for the Bacon QRP Contest	0100Z-0300Z, Aug 21
Solar Eclipse QSO Party	1400Z-2200Z, Aug 21
SKCC Sprint	0000Z-0200Z, Aug 23
Phone Fray	0230Z-0300Z, Aug 23
CWops Mini-CWT Test	1300Z-1400Z, Aug 23 and 1900Z-2000Z, Aug 23 and 0300Z-0400Z, Aug 24
QRP Fox Hunt	0100Z-0230Z, Aug 25
NCCC RTTY Sprint	0145Z-0215Z, Aug 25
NCCC Sprint Ladder	0230Z-0300Z, Aug 25



Contest Calendar— August page 3

Hawaii QSO Party

ALARA Contest

SCC RTTY Championship

W/VE Islands QSO Party

YO DX HF Contest

Kansas QSO Party

Ohio QSO Party

CVA DX Contest, SSB

50 MHz Fall Sprint

SARL HF CW Contest

Phone Fray

CWops Mini-CWT Test

0400Z, Aug 26 to 0400Z, Aug 28

0600Z Aug 26 to 0559Z, Aug 27

1200Z, Aug 26 to 1159Z, Aug 27

1200Z, Aug 26 to 0300Z, Aug 27

1200Z, Aug 26 to 1200Z, Aug 27

1400Z, Aug 26 to 0200Z, Aug 27 and

1400Z-2000Z, Aug 27

1600Z, Aug 26 to 0400Z, Aug 27

2100Z, Aug 26 to 2100Z, Aug 27

2300Z, Aug 26 to 0300Z, Aug 27

1300Z-1630Z, Aug 27

0230Z-0300Z, Aug 30

1300Z-1400Z, Aug 30 and

1900Z-2000Z, Aug 30 and

0300Z-0400Z, Aug 31

HAM RADIO OUTLET

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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



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New Store!