



The Centurion



The 3905 Century Club Monthly Newsletter

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Welcome!

Hello and welcome to the April, 2023 issue of the 3905 Century Club Centurion Newsletter. Be sure to check out Mark's, KI0Y, article on how to create maps to help you visually track your awards progress. Pretty neat!

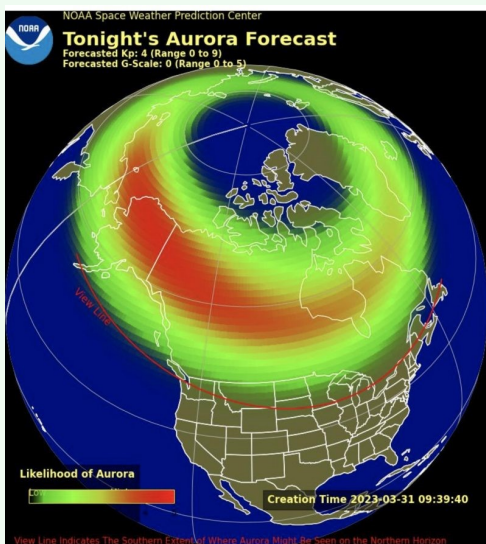
Mike KU1V and Gene W8NET give us insights on the recent trips they have made and include lots of photos!

The search continues for CW NCS Stations as Chris AI8W takes time off while moving and settling in to a new home.

We are always looking for article ideas and contributions. As Kirk AA1NA would say—"The Centurion would not be the same without your articles"!

Please send articles or suggestion for articles to:

k7qhu@outlook.com.



Sun activity for March 31, 2023: A geomagnetic storm is ongoing

The expected disturbance to Earth's magnetic field arrived earlier today, via a G1 (minor) storm. The threshold was reached at 5:59 UTC on March 31.

A G1 geomagnetic storm means auroral displays are possible at latitudes as low as the northern U.S. states. The storm is due to the arrival of high-speed solar wind from a coronal hole. Unsettled-to-active conditions might persist for the next couple of days, through April 2. So stay alert, aurora watchers!

Dean's Column

Notes from the President

By Dean Davis, N7XG

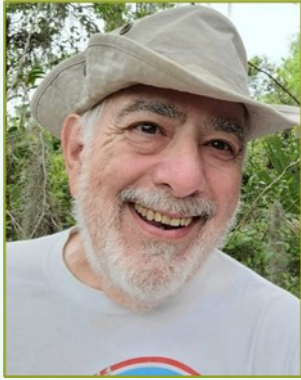


It turns out that lunch was an “all you can eat” buffet, so I am still out to lunch! I will be back next month with the best column ever!



BEN'S COLUMN

Notes from the Awards Secretary



By [Ben Goldfarb](#), AE4NT

Hello, 3905ers! Sorry for missing last month. Things were a bit hectic around here, and I found myself hard pressed to make Steve's deadline. This month, he nagged me just as I was feeling as if I might miss another deadline. I just needed a kick in the butt, so here I am.

This being April 1, I had wanted to do something humorous, but with all I have on my plate, I did not have enough quiet time to inspire comedic creativity. I cannot hop directly from the Awards Committee

Report to the comedy show. So, my harried, aging brain turned to the practical side for this month's column.

While everything in the Club relates to awards, this month I will be writing on another subject, which is remote operation. Operating remotely has provided me with yet another new, albeit expensive, way to have fun with the Club's nets, and it also affords me some additional opportunities that I might not have experienced using my existing fixed and mobile stations.

Operating Remote Portable on the 3905 CC Nets

Introduction

As our population grows denser, community rules and restrictions weigh increasingly heavy on ham radio operators. Antenna space is severely compromised for many of us and homeowners' association (HOA) rules preclude effective HF antennas for others. Legislative proposals to mitigate the HOA situation come up every year or two, but they never solve any of the problems because they inevitably either wind up deferring to HOAs or not passing. Thus, we HOA-challenged folks must sacrifice antenna efficiency to comply with HOA rules. Along with many of you, that is the bind I am in.

My HF antenna is a SteppIR SmallIR vertical, with 38 radials now. It covers 20 through 6 meters quite well, but it is electrically lengthened via a loading coil to operate on 30 and 40. For 80 – nada! It simply cannot tune 80-meters. Period, end of report.

I have tried several approaches to get on our 75-meter nets. The most effective way thus far has been via my mobile rig. My Tarheel 100A works well for me, but to use it means I must operate uncomfortably from my driveway or another location. Unless I am on the road, I prefer operating inside in air-conditioned comfort in my cushy office chair.

My 80-meter antenna quandary led to the not so brilliant idea of using remote stations. I had been a member of [Remote Ham Radio](#) for many years, but I had subscribed merely for the novelty of it, never thinking the remote approach would ever be useful for me.

About Remote Ham Radio

Remote Ham Radio (RHR) is the remote service I use. There may be others, but I am too lazy to research them. No need to, as RHR fulfills all my remote stations needs quite well.

RHR is run by a company that builds commercial radio towers, Hudson Valley Towers. They have some great locations around the country and around the world, twenty stations in total. Many of the stations can run full legal limit, and because these people specialize in antennas, they can provide elaborate, repositionable radiators in optimal locations that we mere mortal hams can only dream of!

Requirements

RHR stations are accessible through the Internet via a web browser interface. I have also used their well-designed Windows desktop app. Many of the stations run Flex radios, which in conjunction with the desktop app can be accessed via Flex's SmartSDR software if you are so equipped. Being a Flex owner, I find this particularly convenient, but I can also say that the desktop app is very robust even without the Flex software. The web interface accessible through all modern web browsers is very well implemented, too.

Check out the screenshot below. The left panel shows the available stations. Here, you see that I am logged in to W1/Chaplin in Connecticut, running standby (receive only) for \$.05/min. You can run this receive-only mode relatively cheaply, but if someone chooses to use the station for transmit/receive, you will be summarily booted. Those who log in for transmit/receive have priority and they can hold onto the station to the extent that their wallet allows. Stations in use for transmit/receive are indicated by a red square next to their name, while a green dot indicates that the associated station is available for connection by any RHR customer. A purple dot indicates that a standby user is currently using the station. A gold circle with a diagonal denotes a station that is down for maintenance.

You can read the location information for the station and other pertinent information in the top panel, then below it is familiar radio stuff. It has a Flex style band display with the waterfall beneath the frequency vs. amplitude graph. Here, you see that we are tuned to 3905, where we have nothing but noise.

The antenna display is on the left below the waterfall. The pattern shown is fixed, as this station has a fixed dipole on the chosen band. If it were a rotatable antenna on one of the more expensive stations, you would be able to control the rotator from this panel.

Below it is an optional log, which can be linked to LoTW. It keeps your contacts in your RHR account and provides export capabilities if you want to import entries into your main logging programs. To the right you have the radio control panel, which also includes the S-meter. Note that you have full control of frequency, mode, noise reduction, transmit bandwidth, AGC, receive preamp, and split operation.

(That last item – operating split – is crucial when operating the RHR Croatian station on

our 75-meter SSB net, because amateurs in ITU Zone 1 cannot operate above 3800 KHz on the 80-meter band. I will write more about legal issues in a subsequent section.)

The screenshot displays the RHR - Universal Console interface. On the left, a list of stations is shown, including W1/Eastport, W1/Jonesport, W1/Lubec, W1/Athens, W1/Chaplin (selected), W1/Marconi, W2/Summit, W2/Blueberry, W2/Jefferson, W2/Quaker, W2/Taconic, W2/Morse, W4/Atlanta, W7/Phoenix, W7/Tacoma, W7/Portland, W0/Meeker, HH2AA, KP4/Palmas, 9A/Croatia, 9A/Croatia-2, 9A/Croatia-3, RHR/FlexTest, and Console Settings. The main window shows a live session with W1/Chaplin at \$0.19. The frequency is 3.905.000 MHz, and the mode is 80m. The interface includes a map showing the location of W1/Chaplin in Connecticut, a list of antennas (Off-Center-Fed Dipole @ 100'), and a list of call signs (599). The bottom section provides details about the station, including its location in CT, its QRN status, and its power output (Flex 6400 & 100w).

You will be required to submit a valid ham license, and you must operate within the scope of your privileges, as granted by your license. RHR verifies that you are legal, and then you're good to go.

You will obviously need a computer with a web browser and a working microphone and speakers to get going. I started out using a rather old Sennheiser gaming headset, but when I noticed that the earpads were flaking black crap onto my ears, I tossed it out and

began using a pair of Bose Bluetooth earbuds with a microphone, designed for use in the gym with mobile phones. Ham radio SSB is not Hi-Fi audio. We are typically using 3 KHz or less bandwidth, so we do not need extremely fancy microphones that are flat from DC to 20 KHz. A cell phone mic is good enough, and I have received no complaints while using this device.

My computer is an 8th Generation Intel i5 Windows 11 build. When not operating remote stations, this is the computer from which I run my local Flex 6600. However, I have also operated RHR from my notebook computer, which is a 12th Generation Intel i7, using the built-in mic and speakers. RHR should run well on any modern computer.

Obviously, you need a good, reliable Internet connection. Mine is a gigabit nominal, which is probably overkill. I would say that if your local network is not heavily loaded with kids watching Netflix and suchlike as you are trying to operate, you'll be fine with 50 to 100 megabits of throughput.

Not cheap

So, what does all this cost? As the heading suggests, it is not cheap. You can pay either \$20/month plus airtime usage or \$99/year plus airtime usage. The flat fee is not the big gotcha – it's the airtime. (Airtime means the amount of time you are logged into each station, which is then available for your exclusive use if you stay connected).

Once you get hooked on RHR, given all the monster stations at your disposal, your wallet will be deflated in direct proportion to the number of hours you spend with radio playtime. The more expensive stations are better suited to quick DX forays than waiting for calls on our nets. A word of warning: It adds up fast! (But some of the stations I will describe below will have you salivating).

Toward the end of this article, I will share my actual billing amount for the month of March 2023. It has not yet arrived as I write this and I have not kept track of my usage, so it will be a surprise for all of us.

The Stations

The Maine stations are the cream of the crop. Three stations poised for prime European DX with full legal limit power and obscenely insane antennas cost \$1.25 per minute of airtime. For example, the Jonesport station has multiple rotatable towers with big stacks covering 10-160 meters. Here's the antenna list:

10m – 8/8/8/8 stack (i.e., four eight element beams stacked)

12m – 4/4/4/4

15m – 6/6/6

20m – 5/5/5

30m – 2 elements

40m – 4 elements

80m – 5 elements wire fixed to EU at 150'

160m – Full-size four-square

This might not be very affordable at \$1.25 per minute, but what would it cost to put together a station like that?

Other stations of similar or lesser capabilities are available around the country and in a few overseas locations. All have interesting antennas. The least expensive ones generally use dipoles, but even there, the dipoles are typically at 100', which few of us can claim. And because the company builds towers, many of the locations are on high ground where they have built other commercial towers. The more expensive ones have rotatable antennas, and in some cases, rotatable towers.

The cheapest barefoot station will run you \$.09/minute. It is called W1/Marconi and features a Flex Radio at 100 watts with an off-center fed dipole at 100'. A couple of other, similar stations in One-Land are at \$0.19 per minute.

Most of the other stations around the country range from \$0.19 to \$0.89/minute and have varying capabilities and antennae, including one station equipped for EME. Stations exist in New York, Connecticut, Massachusetts, Georgia, Colorado, Arizona, Oregon, and Washington. Hell, ALL of them are better equipped than what I have at home, especially on 80 meters!

The overseas stations are in Haiti, Puerto Rico, and Croatia. I've tried Croatia on one of our nets, which was a lot of fun. I'll tell you that story below.

3905 Net Experiences

I checked into the 40M SSB Late Net on March 29 as 9A/AE4NT, from Zagreb Croatia, where I was running 100 watts into a four-element 40-meter beam at about 50 meters high. I had waited until the net was almost done, so those who stuck around late were rewarded. The time in Zagreb was around 7:00 AM.

"You're portable *where?*", was the question from NCS Gary, K9GWS. Took a while to convince him of my virtual location and how to properly construct my callsign, but once that happened, I easily made seven contacts.

I was mildly surprised at the signal reports I received, although just about everyone I heard on the net was at least a 55. Running only 100 watts but with some big iron in the sky, I was getting reports ranging from 55 to 59! The only slightly dodgy contact was with Wayne, WY6N, in Long Beach, California. He was weak, but not unreadable, so I gave him a 22, and he gave me a 33 in return. All this with some splatter from a Serbian station QRMing me on an adjacent frequency.

There was a funny moment when one well-meaning netizen asked, "Do I send the QSL card to your Florida address?" Since our bylaws no longer make a distinction between Remote and Portable, I guess the questioner, who was new to our nets, thought I had flown over to Zagreb for a little Croatian sun and fun. Hey, let them think we have a roving weirdo who pops up in strange places at random times, if that will increase interest in our nets!

I have checked in to a few other nets from RHR stations in Arizona, Oregon, Washington, and Connecticut. The Arizona station, near Prescott in Yavapai County, was the

best experience because I paid the big bucks for the full legal limit amp. ALL my contacts on that net were 59 both ways.

I have a viable 40-meter station, wimpy as it is in comparison to the RHR powerhouses, so that remote Arizona experience was not extremely useful to me. Nevertheless, I am happy to indulge in radio playtime to help members who might need me in a new state or two. I mainly want to use the remote stations for 75-meter nets, where I need more contacts. I will check in to 75-meter late nets remotely from time to time, as the spirit moves me and as my wallet permits.

For operating remote (aka pay-for-play radio), I like the late nets because they tend to move faster. Imagine sitting through a net with 69 check-ins for two hours at \$0.69 per minute. By my calculation, I'd be spending \$82.80 just to thumb through my current copy of QST while waiting for calls.

Legal Stuff

Our bylaws do not distinguish between remote and portable operation. Thus, my operation of RHR stations is portable wherever the station is located, for Club purposes. However, club rules do not supersede communication laws in the country of operation. For example, in Croatia, I must identify as [9A/AE4NT](#), not AE4NT/P 9A or some such bogus designator. Also, because I'm operating from Europe, I must stay within the confines of the allowed frequencies for that ITU region (Region 1). That means I must operate below 7200 on 40 meters and below 3800 on 80.

For some reason I have yet to determine, a U.S. Advanced or Extra Class amateur license is required to legally operate as 9A/CALLSIGN. That restriction is straight from RHR. Although I meet the requirement, I will further investigate this to satisfy my curiosity.

I suppose I could use contacts from [9A/AE4NT](#) for club awards, but I am primarily interested in handing out some rare DX on our nets as well as playing with radios with big, rotatable antennas, a thrill I cannot duplicate at home! I cannot use [9A/AE4NT](#) for DXCC credit for my AE4NT account; however, I have obtained an LoTW certificate for [9A/AE4NT](#), which I can use to start amassing DX contacts from my rented Croatian station!

The Haitian station is subject to different rules. You must use the assigned call sign [HH2AA](#). I would need to check into nets with that call sign instead of AE4NT/P HH2 (which is phony and would be illegal in Haiti) or even HH2/AE4NT which is also illegal in Haiti. Again, the amateur radio operating laws and reciprocity agreements of the country involved come into play. So, if I were to use any contacts from Haiti for 3905 CCN awards, I would need to have a separate awards account as [HH2AA](#). I could NOT earn ARRL awards for the station, as the LoTW certificate cannot be issued to multiple users, as is strongly stated by RHR in the station information.

Operating the domestic stations, I am simply [AE4NT/P XX](#), where XX is the state in which the station is located. Much like mobile contacts I make while on the road, I can use these portable contacts for all 3905 Century Club Awards. I cannot use them for ARRL WAS for AE4NT because of the 50-mile rule, but I could open a separate LoTW

WAS account for each location and in turn earn WAS from each of them if I so desired. I confirm contacts via LoTW, so I must create a station location for each of the remote stations in tQSL.

My Bill for March

My bill arrived and as promised, I'll share it with you. As I mentioned above, I was a bit overzealous playing with RHR on our nets in March. So, to give you an idea what the cost might be for checking in to a few nets, my bill for the month was \$144.41. That is just the airtime charge, which I pay in addition to the \$99/year subscription fee. Even so, it is one helluva lot cheaper than buying a new house with enough land and few enough deed restrictions to build a decent antenna!

Conclusion

If you have a no-compromises station already, RHR is probably not for you. However, if you are antennalogically challenged by small lots or HOA restrictions, RHR is worth looking into. Even if you don't suffer from those deficits and you just want to occasionally operate a great contest station in a highly desirable location to see how the other half lives, you might want to give RHR a shot!

If you have any questions or comments about this article, please do email me. I am happy to share my experiences.

Back to the Future

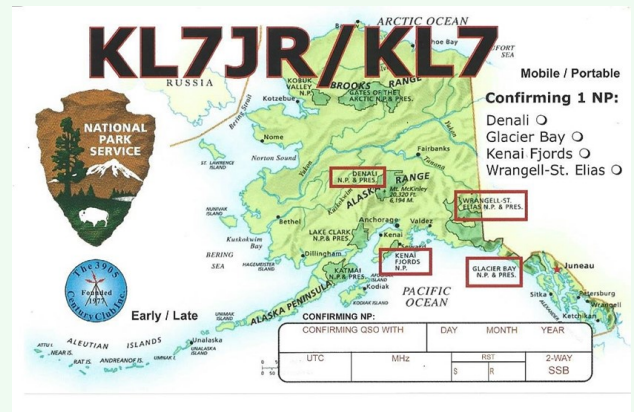
I'll be back atcha next month. In the meanwhile, Happy Easter, Happy Passover, and Good DX!

KL7JR Trip Update

After much anticipation and planning, Yukon John's return to the north has begun. John is now in California working his way north and stopping at new (for John) National Parks.

John has run into cold weather at the Four Corners, along with storms and road closures in California.

Please remember to put the name of the National Park John was located in when you worked him and also note whether he was portable or mobile. Also please remember that John's club station KL7RST is a [card requested club](#).



This is the latest update from John:



March 26, 2023 enroute to Grand Canyon, NP. Petrified Forest NP...Been there. Done

that. Have the T-shirt, hi hi! It's funny to pass by many of the parks I did last year. I'm looking forward to new National Parks in CA, OR and Alaska plus the Yukon!

Flash... Even Later Update From John!

KL7JR Trip Report

March 29, 2023 from Kings Canyon NP, CA

It's been fun but very challenging at times so far in all kinds of weather. Four Corners was a lot of fun, ccccold fun! Almost 600 contacts in 3 days on 13 nets including 20 and 160m. The gauntlet is tossed!

I've come to learn that the "T Verticals" require a more horizontal plane vs. an Inverted V install. My 75m T worked fine on 40m but did not like 75m as an Inverted V. Also, we know how critical a good ground is required on antennas, especially using Hamstick type verticals. Case in point, my 75m short MFJ Hamstick when mounted off my mirror and with ground radials had SWR of 2.5 at best. When mast mounted in the ground off the mirror it was 1.3! I'll be remembering that. I like the Hamstick challenge, and my mobile work is all stationary.

Other "interesting" challenges faced:

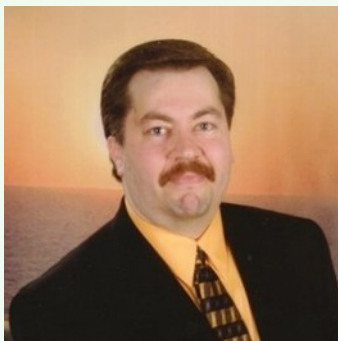
- Dump tank valve for black water froze on day 2 Luckily it thawed 2 days later.
- My wrist watch stopped working.
- 400 watt inverter went TU.
- Broke tip off 75m vertical (yup, I'm a gorilla!).
- RV generator quit working again! Had recent service.

73,

John, KL7JR and the gaggle

Maps for Award Tracking

By Mark Eberle, KI0Y

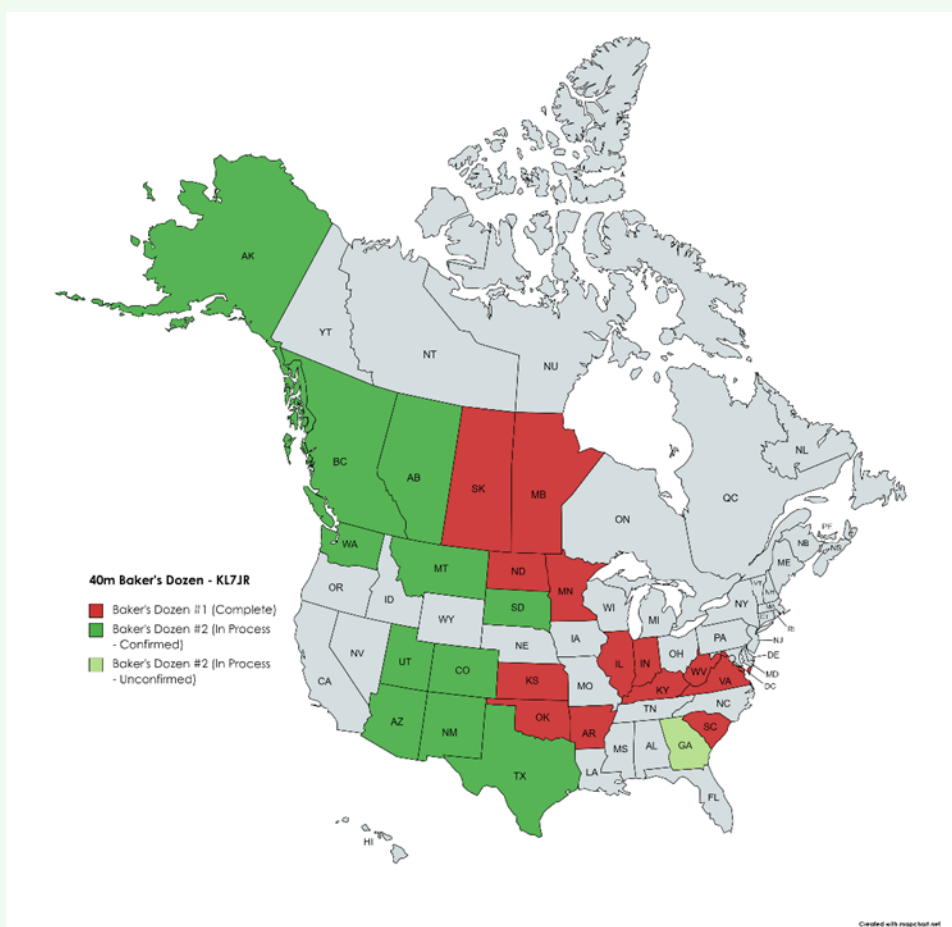


As an engineer, I've spent a lot of time creating charts and graphs based on various data points over the years. It is much more impactful when you can visually see things laid out graphically rather than tabulated as a bunch of text. With that in mind, I turned my attention to some of the 3905 Century Club awards that I've been working on to get a visual feel of how things are progressing.

Years ago, I had found a Windows program that would let you color in states as you worked on your WAS award. I don't believe it's still around, but I wondered about doing something similar for other awards on our nets. Since I've already done WAS prior to joining the club, I chose to look at other awards instead, but you can certainly use this method for WAS tracking as well. For the purposes of this article, I chose to start the Baker's Dozen award to track operators as they crisscrossed the country.

After a quick search, I found MapChart (<https://www.mapchart.net>). There are lots of different maps you can choose from, and I've still not explored them all. For this exercise I chose USA and Canada. Once the main map is displayed, you can then pick different colors to fill in the states and provinces as you see fit. In the example to the right, I've shown my current map (as of writing this in mid-March) for tracking KL7JR on 40m SSB. The states colored in red are from the first Baker's Dozen award I earned with John. Those in green are the ones in process working towards a second one. Dark green are states I have cards for while light green are states where I still need on a card.

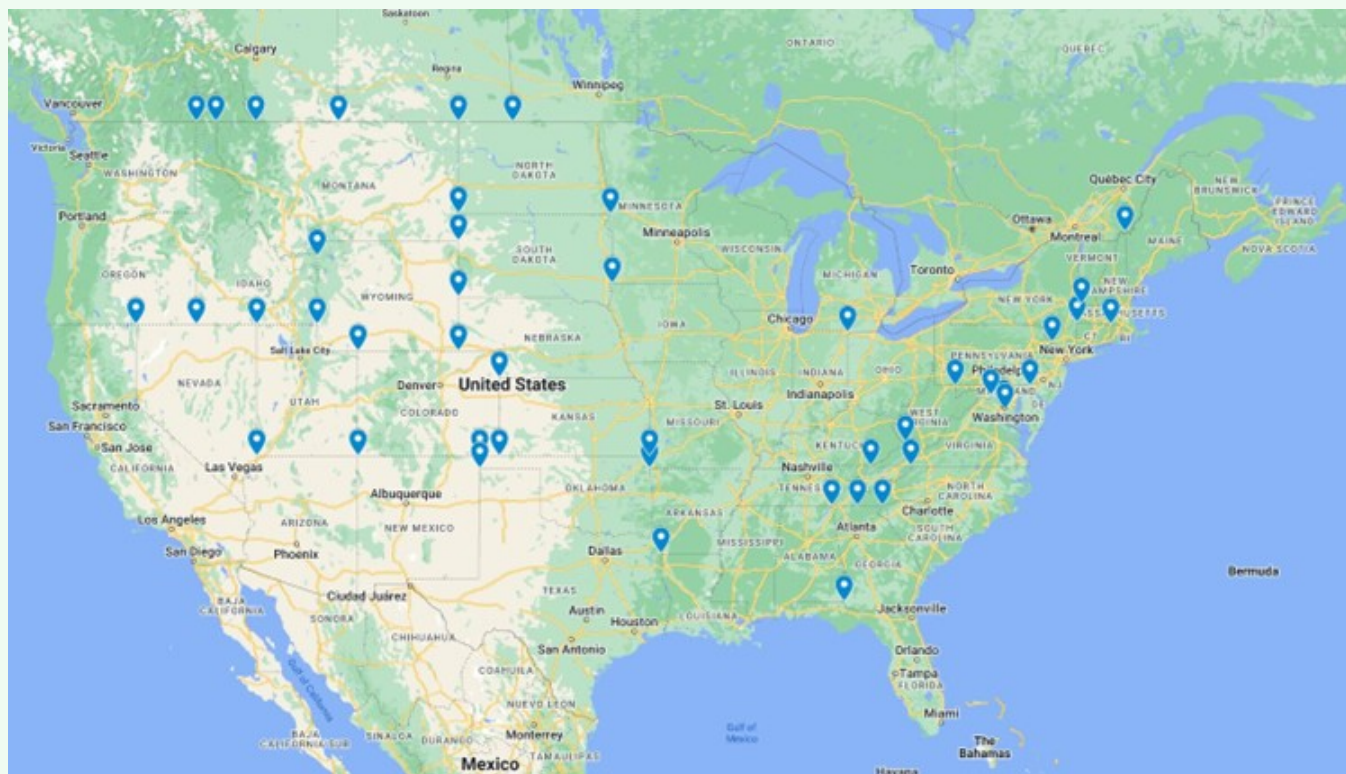
It is free to use MapChart and you can customize things to your



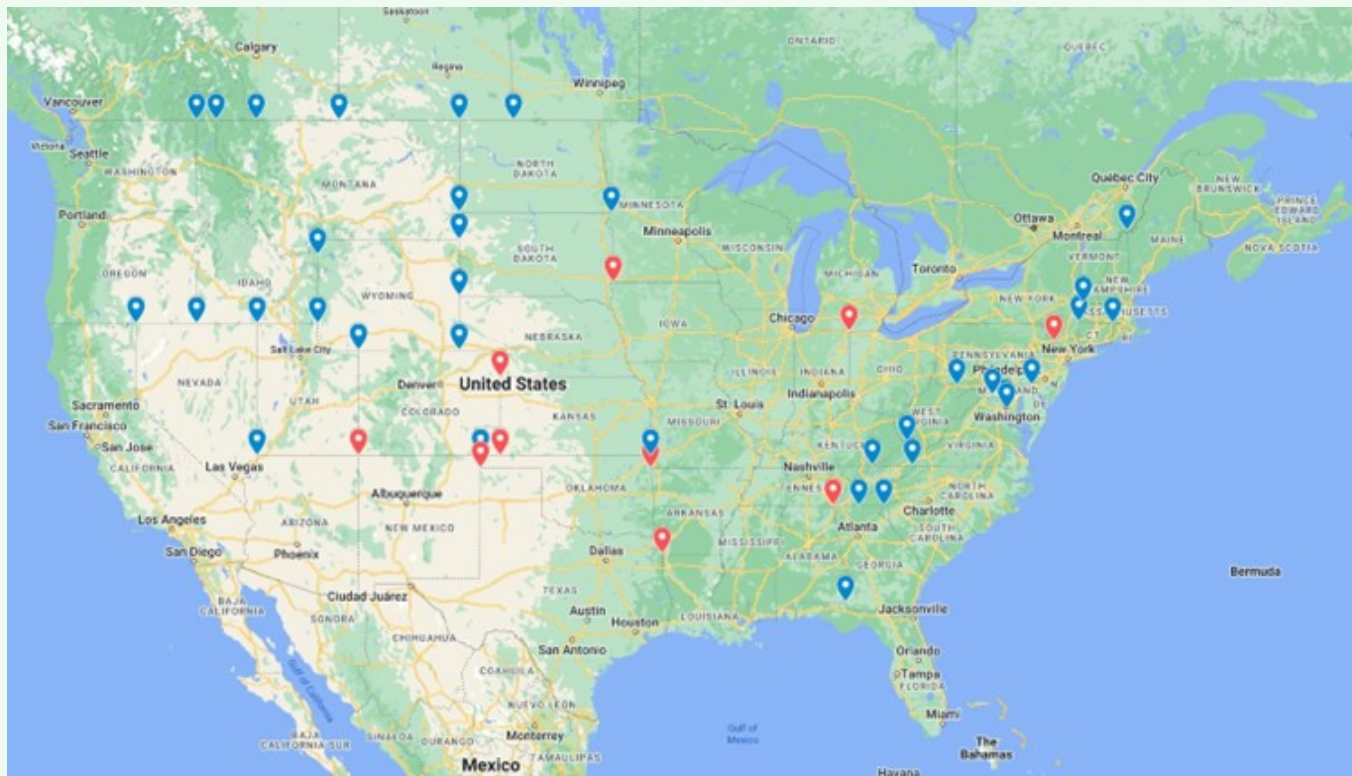
liking. They do offer a paid version where you can save your maps and preferences, but I have not gone that route. Once the map is finished, you can do a preview of it and then download it as a .png graphics file to your computer. If I need to modify the map later, I either use a program like Paint or just go back to MapChart and quickly re-create it making the necessary changes. I currently have three such maps saved on my computer for tracking a few operators on different bands. They can be printed and kept close at hand, but I just refer to the electronic file as needed. Another option would be to use the base map but change the default state color to white (using the Advanced option) and then print it out to color in by hand. In either case, it gives me a quick visual on my progress with a particular operator and band combination.

The next few awards I chose to look at required a different approach. Rather than coloring in whole states or provinces, I needed something that allowed for more fine tuning. This is because I was now looking at awards such as the Tri-Point, National Parks, and Oldest Established Town awards. For these, I turned to Google and the My Maps feature. I was introduced to this a few years ago from a cruising group I was part of. Everyone in the group could put a pin on a map so we could all see where we were coming from prior to the cruise. I really liked this idea and have used these maps a lot since then. To use My Maps, you will need to have a Google account. If you have a Gmail account, you're all set. You will use that same login to access and use My Maps.

Let's start with the Tri-Point award. I started with an empty map and added markers for all of the tri-points listed on the application. Now I have a quick overview of where they are all located in relation to one another. See the screenshot below. Note that there are four more up in northern Canada, but I only included these in the screenshot.

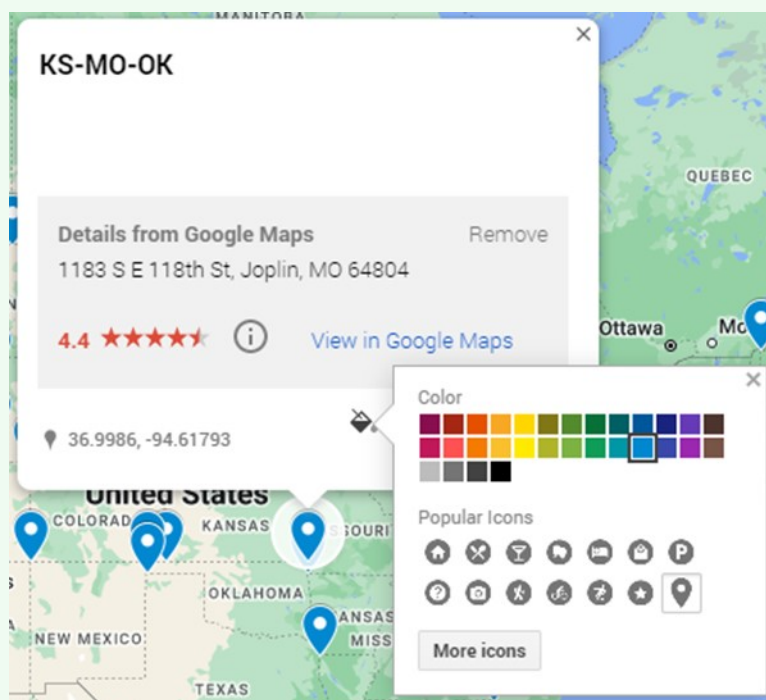


Once the map was created with the basic information, it is now ready to be customized. Below I have changed all the locations that I have worked to show with red markers. If I wanted to differentiate between worked and confirmed, I could also set up another color, but currently all the ones I've worked have been confirmed.

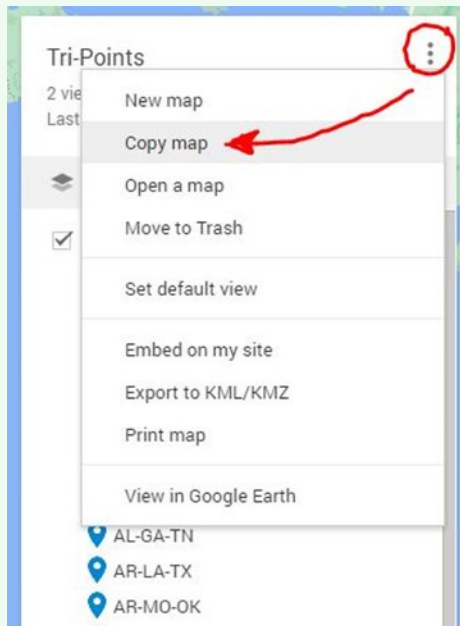


To change the color of a marker, start by selecting it. A new window will open with some details. Click on the paint can icon and select the new color. You can also change the icon from a pointer to many other things, but I generally just keep it simple with the pointer. When you're finished you just close it. The nice thing about My Maps is that like Google Docs or Google Sheets, it is constantly being saved to your account as you make changes, so you don't have to worry about it.

If you'd rather not go through all the work to create your own map, you're in luck. I have the basic map saved in



my Google account and it is set to be shared for others to use. I have made it so that others can view it but not edit as I want to keep the original intact. However, this doesn't mean you can't use it. You just need to make a copy of it on your own account. First, log into your Google account, then [click here](#) to open the map. Once it opens, you'll see a bit more than what I have shown in the screenshots here. You can also zoom in and out and re-position the map to better fit your screen.



On the window at the left, click the three vertical dots and then select Copy map. This will copy a version to your Google account, and you can make any changes you like from there. Note that if you have not logged into your Google account before opening the map, the Copy function will be grayed out. You can also use the Copy map again to create your own maps for anything you like. You can re-name them, add layers, delete layers, etc. That's what led me to creating so many different versions when I first found how to use it!

I also have created maps for the [National Parks](#) Award, the [Oldest Town](#) Award, the [High Point](#) Award and the [Low Point](#) Award. Click on the links to open and save copies of them the same way. Remember, these last five awards have two variants...one for those working TO the points of interest and one for working FROM those points. Most people will probably use these like I do to track contacts made TO the places marked. If you're operating from a Point, Park, or Town, you could still use the maps to show which locations you have activated.

For tracking DX, either the Google map or the MapChart options would both work. The MapChart would be easier due to the point and click options but unless you have a paid account, your selections would not be saved. I have a My Maps file for all my ham radio contacts and it gets very busy when zoomed out. I also don't always update it often so it's usually not too current. For this reason I am not necessarily looking for another map for the DX award, but it is certainly a possibility for those that may want to make one!

Final thoughts. If you are using your phone to access My Maps, I've heard that making changes is a bit tricky. I'd recommend logging in from a computer for any editing. Viewing the map on a phone seems to work out just fine though. For the Low Point map, many of the locations are approximations based on my interpretation. Take those with a grain of salt and modify them as you see fit. Lastly, you might be asking yourself, is any of this really necessary? Nah, of course not! I started this because I like having that visual representation of places I've worked. The more I created and added, the more I thought others might enjoy using as well. If that's you, then give these a shot, experiment and have fun!

73, Mark

MORE PARKS!!

By KU1V, October 2022



Ok, a few free days available, let's go get some more parks. Eastern Canada is within easy reach; thus, I launch from my home QTH on October 6, 2022 to start a parks tour in Nova Scotia, Canada. Easy drive, about 6

hours, from QTH to THE CAT ferry terminal in Bar Harbor Maine. Here I complete my reservation to Yarmouth NS, both ticketing and customs requirements, and standby for boarding.



Logo of Parks Canada



Boarding process is easy just get in line and drive onboard as instructed.



Once onboard, due to low season, plenty of seats available and restaurant area with great pastries.



Probably one of the best Rubine sandwiches I have had in sometime.



Arrival in Yarmouth NS passing the lighted customs area for clearance into Canada.



Starboard view of THE CAT docked in Yarmouth NS.

After getting lost and poor route information from GPS, I finally arrive at the Kejimikujik (Keji) NP. Propagation was good with several contacts being confirmed.

It is definitely a small world, and what a surprise to meet one of the park attendees that knew my youngest son as they attended the same school in State of Maine.



KU1V Kejimikujik NP Nova Scotia

Leaving the Keji early in the AM, I drove to Caribou NS to catch the ferry to Wood Islands PEI. There are several departures per day making it very convenient for scheduling your crossing.

Galley area on board ferry boat. (Great Fish Chowder).

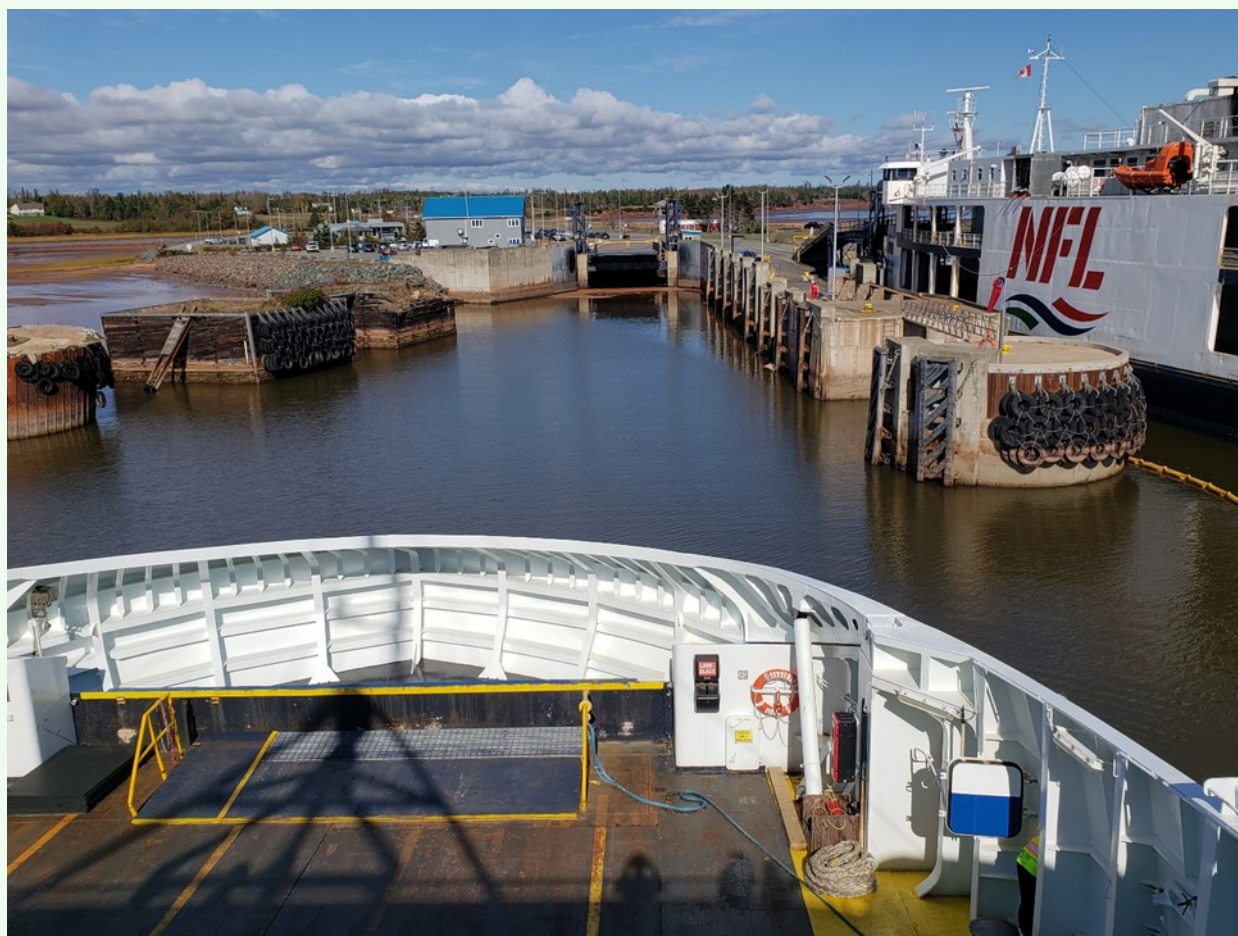


Views during crossing.





Arriving Wood Islands PEI



Now back on the road to PEI NP. As Hurricane Ian passed, PEI had substantial damage as evident by many fallen trees. As I approach PEI NP, most of the interior park roads were closed. I was fortunate to navigate to a coastal route that was open as no large tree along the coastal area to cause problems, i. e. roadblocks and downed power lines.





KU1V Prince Edward Island NP, PEI

Good contact night at PIE NP as propagation was again with us. Leaving the PEI NP, I drive generally south to Borden-Carlton and across the Confederation Bridge into New Brunswick. Being late at night, I took the coastal route 955/15 to Shudiac, NB (twist and turns, probably not do this route again) where I spent the night. Next morning, after breakfast and fuel, I start driving and joint route 11 with my sites on Kouchibouguac NP. With arrival in NP and being Saturday, was great to make several 20 meter contacts.



Long drive to the Forillon NP, but being a Canadian Holiday traffic is very lite. Foliage has some color but interesting how late the change was this year.

Driving the Gaspé Peninsula south side.



Forillon NP Canada



**KU1V Forillon NP**

Now for a long drive from Gasp'e, near 850 miles, to La Mauricie NP, near Shawinigan, Quebec. Fortunately, at night some the 25 km highway speed limits disappear thus becomes difficult just to keep pace with the locals.

**KU1V La Mauricie NP**

From La Mauricie NP it was an easy drive south to home QTH. Border crossing goes quick at night with very little traffic.

Parks Canada has a web site to their parks, and here these parks can be viewed in detail with many excellent pictures.

Thanks for all the contacts, please note the park name on the QSL.

Until the next park trip – Best 73 Mike KU1V

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Release Date:

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FOR IMMEDIATE RELEASE

Orlando HamCation Announces 2023 Attendance Numbers

ORLANDO, FL – On February 10, 11, and 12 2023, Orlando Amateur Radio Club hosted the 76th annual Orlando HamCation at the Central Florida Fairgrounds and Expo Park in Orlando — an 87-acre lakefront fairground. HamCation experienced great weather during the show hours as the rain held off until after the show closed each night. This year's attendance was **21,830**. 2023 is the third largest attendance record for HamCation.

Orlando HamCation would like to thank our 2023 sponsors: ICOM America, Yaesu USA, and DX Engineering with their generous support.

Please thank all our volunteers from around the world for their dedication to making HamCation the 5-Star event that everyone has come to love.

We would like to thank all the Visitors and Vendors for being part of a great show.

We are already planning for 2024. We can't wait to see you at HamCation on **February 9 - 11 2024**.

Orlando HamCation www.hamcation.com

###

A Short Trip to St. Croix

Gene Marsh, W8NET

Sometimes, you have to just go somewhere new. After the COVID-19 pandemic (with the travel restrictions and mask mandates and fear everywhere), Jackie (XYL) and I wanted to go somewhere we had not been before. Somewhere warm. Somewhere with beaches. Somewhere that I could play radio!

In late October, I was researching deals to a couple of Caribbean destinations in mid-January through early March. I was salivating! Too many good place to go. However, three spots had the best deals for the time frame in question: Haiti, the Bahamas and the US Virgin Islands (specifically, St. Croix). The Bahamas was the cheapest airfare, but the accommodations were way more expensive. That made the money choices of Haiti and St. Croix. Safety, better beaches, no foreign amateur radio license requirement and it's US territory? NO BRAINER! And, you can drink the water! St. Croix here we come!



Gene and Jackie in Christiansted, Virgin Islands



The Bombay Club Restaurant

There is no direct flight from CLE to St. Croix (STX). So, our flight were from CLE to ATL to STX. It's an approximately 6 hour combined flight, with a 90 min layover. Not bad.

We stayed at the Club St. Croix in Christiansted. Very nice, very clean and great people. I wanted a first floor room so I could set up my antenna. It turned out perfectly! (see pic) Our first night – Monday Feb 6 – we wanted to eat somewhere nice, after traveling. The Bombay Club in

Christiansted (see pics) was incredible! We

split a huge seafood platter, an order of calamari, and big bowl of AWESOME seafood bisque!

At dinner, Jackie and I discussed the our (relaxed) schedule of events. We both did not want to be sunburned, and we did not want to. So, we planned our mornings and late afternoons for beaches; mid-afternoons and evenings for radio. St. Croix has MANY incredible beaches and resorts. Five days is too short to see even a small sampling.

Two of the resorts we visited were stunning. The Buccaneer Golf Club and Resort was incredible. A private beach, great food, fantastic drinks. And, the Pelican Grove Resort has a big, long beach and even better food! It also has Godzilla – 3ft long iguana! In all, we visited 7 beaches and resorts, all beautiful.

For my radio ops, it was both incredible and horrible. I made a huge amount of FT8 contacts on 10m, 15m, 17m and 20m, including 4 new countries! A nice haul of 367 FT8 QSO's! I also went to 2 POTA parks: Christinsted National Historic Park (K-0807), and Salt River Bay National Historic Park (K-0755). Only 41 contacts to K-0807, but 131 contacts from K-0755. It was fun being the chasee, rather than the chaser!

And then, in the evenings, 40m and 75m was horrible. I checked in the 3905 Century Club nets, both 40m and



Seafood Combo Platter from the Bombay Club



Chillin' on the beach, Club St. Croix

75m. THREE DAYS of solar flares and static crashes, every few minutes. It was the worst conditions I have heard on 40m – EVER. 75m was better, but still very bad. I understood why: for example, on Tuesday, we had SEVEN M-class solar flares. Wednesday and Thursday were not much better. All told, I made only FOUR 40m contacts and

TWELVE 75m contacts for THREE NIGHTS. The Century Club members tried, but it was a very tough 3 nights.

I highly recommend going the Caribbean for a DXpedition, especially in the winter! Even with the iffy band conditions, it was fun to operate as a target. And, of course, it was a nice break from Ohio weather, with PERFECT weather on St. Croix! I **WILL** go back!

73,

Gene W8NET



View from the shack!

April 2023 Club Events

Note: Regular Board Meetings are always held on the second Saturday of each month, local time at 9PM Eastern, 8PM Central, 7PM Mountain, 6PM Pacific.

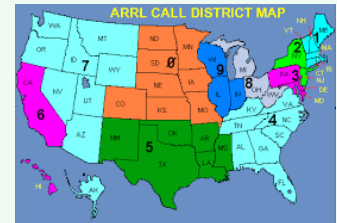


- 3905CCN Board Meeting: Saturday, April 8, 2023



Weekly Zoom Meeting on Wednesdays at 01:30pm Pacific Time. Check your email for the Zoom log-in information.

Road Trips!



See the KL7JR Trip Update on page 4!

CLASSIFIED ADS

This section is for members who would like to sell, swap, or purchase ham gear. If you would like to list your equipment here, please send the information to k7qhu@outlook.com. The deadline for ads is the 30th of the month.



No Member Classified Ads Were Submitted For This Issue



NET CONTROLLERS WANTED!

The Club runs CW nets on the 160m, 80m, 40m, and 20m bands. If you have ever thought you might like to try your hand at running a CW net, now would be a great time to volunteer. If you think you might be interested, check out the “CW Nets 101” page on the club website at: [The 3905 Century Club - CW Nets 101 \(3905ccn.org\)](http://The3905CenturyClub-CWNets101(3905ccn.org)). We really need CW NCS's as currently the 40M and 80M CW nets do not have Net Control Stations.

If you are interested in giving CW NCS'ing a go, please contact the CW Net Coordinator, Steve Davis, K7QHU (k7qhu@outlook.com) for more information.

By the way, the Club is always looking for Net Controllers for all nets and modes. If CW is not your thing, then please consider volunteering as an NCS for any of the other Modes. If you volunteer, you receive free NCS training and all the associated NCS benefits offered by the club.

Fun Facts About Our Nets In March 2023

Did you know we had **692 unique U.S. Stations** that checked into our nets during the month of March, 2023. Check to see if you made the list!

AA0HF	K2OXD	K8ICE	KC1BFL	KD5DCJ	KF0EAU	KJ6HMY	KO4RBA	N2QIL	NA1O	W4ZDP	WD4ERM
AA0ZP	K2SFS	K8IQQ	KC1JZR	KD5EJG	KF0GUS	KJ6OWI	KO4RUL	N2SIQ	NA5XX	W4ZWW	WD8NHK
AA1BF	K2SH	K8J	KC1KYH	KD5QJQ	KF0GVX	KJ6RKS	KO4SOW	N2TNN	NB9D	W5FYR	WD9CQR
AA1NA	K2YS	K8MSF	KC1PKQ	KD5SYH	KF0HCY	KJ6VJN	KO4YZG	N2UNL	NC6U	W5HEH	WD9DWD
AA1NZ	K2ZIN	K8OSF	KC1PKX	KD5TDK	KF0JAY	KJ7ESD	KO4ZDC	N2XTT	NC8I	W5HWZ	WE4FUN
AA1PB	K3CD	K8ROY	KC1QIA	KD6CWI	KF0KRY	KJ7VWR	KO4ZIS	N3JOC	NC8N	W5UOT	WE4GUN
AA2MA	K3FLH	K8SSN	KC1SDS	KD6OAU	KF0KXT	KK2M	KO4ZYT	N3QQN	ND9G	W5WJN	WF4H
AA2SD	K3LT	K9DBB	KC1YL	KD7QBB	KF0LEA	KK4DZP	KP2JR	N3VET	NE0A	W6BDD	WF4ROG
AA4AL	K3MD	K9GWS	KC2DAQ	KD7QOW	KF0LGV	KK4EC	KQ0EEE	N3VZV	NF0T	W6PNY	WG0I
AA5AS	K3RNR	K9SMC	KC2HZN	KD7SXH	KF4PCP	KK4JJG	KQ0Q	N3ZY	NF2Q	W6REK	WG8X
AA5UY	K3UHU	K9SS	KC2LXD	KD8IJJ	KF5LJJ	KK4KYE	KQ4ADL	N4GV	NH7DX	W6SFO	WG9C
AA9TC	K4AMU	KA0MEK	KC2NYB	KD8JJF	KF5TH	KK4PQU	KQ4ASW	N4JHD	NI0A	W7BO	WI9CE
AB5GG	K4BOV	KA0MR	KC2RCU	KD8NZX	KF5TQT	KK4TE	KQ4BPZ	N4JPD	NI4BK	W7CAR	WK1J
AB5SJ	K4GCD	KA0SOH	KC2VES	KD8SAV	KF6IJZ	KK5XU	KQ4BSK	N4RGJ	NI6R	W7PML	WN0P
AB8PS	K4HZF	KA1FLH	KC3BOM	KD8SBM	KF7ETM	KK5XX	KQ4CIA	N4RLP	NK4T	W7RNX	WN1F
AB8YZ	K4JEL	KA1ULN	KC3JEH	KD8TF	KF7HNC	KK6QMS	KQ4DCT	N4THW	NL7XT	W7SCD	WN6NW
AC1MM	K4JNG	KA2YDS	KC3NCS	KD8TJB	KF7LPU	KK7AVH	KQ4ELN	N4VGE	NM1O	W8BI	WO1X
AC1OC	K4K	KA3IVN	KC3NI	KD8YWF	KF8XY	KK7FJX	KQ4ELW	N4YDQ	NN9T	W8DDS	WO3O
AC2MT	K4KKQ	KA3UFV	KC3ONU	KD9DEG	KG0KP	KK7GBE	KQ4ESA	N5BTS	NO2CC	W8JCS	WO4GQ
AC9ZY	K4LEE	KA3ZAT	KC3SSG	KD9KAA	KG4FVR	KK7HLD	KQ4FEG	N5CCO	NY0ES	W8LUE	WQ7V
AD5XD	K4LO	KA5LYL	KC3TIU	KD9MAK	KG4ZOD	KK7HNY	KQ4FMZ	N5CHL	VE8AU	W8NET	WR8WM
AD8II	K4NAJ	KA5QMC	KC3TLK	KD9MBA	KG5KYX	KK7KBQ	KQ4FUR	N5CMA	VE8RST	W8TJO	WS3F
AE0L	K4OEK	KA6JOE	KC3UBZ	KD9MIL	KG5TQP	KL4JP	KQ4FWE	N5DY	W0FLZ	W9BLI	WT3B
AE0QG	K4PVK	KA7CGI	KC3VHD	KD9OIQ	KG6G	KL7CCN	KQ4GDM	N5EMS	W0JKT	W9BUM	WU2T
AE0S	K4REK	KA7EII	KC4BIQ	KD9PXZ	KG7AT	KL7IYD	KQ4GIS	N5ITO	W1EOY	W9DLP	WU3D
AE0SH	K4RWS	KA9LDD	KC5DP	KD9TEX	KG8WL	KL7JR	KQ4GQJ	N5JDT	W1IP	W9GEO	WV7MS
AE4NT	K4RXH	KB0EL	KC5IVT	KD9TPX	KI0HA	KL7OR	KR0DS	N5JRY	W1LAS	W9LVA	WW0DB
AE5AI	K4SHA	KB1FYI	KC5JAV	KD9TSE	KI0R	KL7RST	KR5G	N5KB	W1MTI	W9ROG	WW4ASA
AE8RN	K4TDW	KB1JLT	KC5THR	KD9VZU	KI0Y	KM4AF	KS9WI	N5KRU	W1OPD	W9WWG	WW4Q
AF5P	K4TER	KB1PJC	KC5VBI	KE0KJN	KI4BNC	KM4DCQ	KT4AS	N5KUC	W1PEF	WA0FIK	WW5DD
AF7DG	K4TPH	KB1SL	KC6UJO	KE0LVW	KI4FSZ	KM4EMR	KT4ZM	N5OHL	W2CSI	WA0O	WW9P
AF8GO	K4VBB	KB1XP	KC6ZKO	KE0PLV	KI4HXT	KM4JPL	KU1V	N5SGC	W2DJG	WA0ROH	
AG4JH	K4VML	KB2ENF	KC8JT	KE0PTE	KI4KGK	KM4LCN	KU8RLY	N5UI	W2FEC	WA1NIP	
AG5ND	K4WXA	KB2MN	KC8WEB	KE0SPN	KI4QMB	KM4LOZ	KW5DRE	N5WGA	W2FKN	WA2AAR	
AG5T	K4WZV	KB3LPE	KC9IKB	KE0VJI	KI4TUQ	KM4P	KX4O	N5WSV	W2IIT	WA2BTC	
AI4JI	K5GEB	KB3PU	KC9RH	KE0VMP	KI4WCQ	KM4YBI	KY1KY	N5XJT	W2JLD	WA2JIM	
AI4K	K5JGS	KB3VUP	KC9VPX	KE0YZM	KI4YTV	KM5MS	KY4CT	N5YIF	W2JLS	WA4BKL	
AI5CD	K5LDA	KB4BJM	KC9YY	KE1AF	KI5BMS	KM6ASK	KY4FF	N6DTE	W2NS	WA4FQZ	
AI8O	K5LXY	KB4ECV	KD0EVP	KE2ABT	KI5CYA	KM9U	KY4MM	N6GC	W2RCH	WA4NID	
AI8W	K5PAR	KB4HAM	KD0QIX	KE2AKA	KI5ELD	KM4CQB	KY4NS	N6MUD	W2TI	WA4YL	
AI9N	K5SLE	KB4JOY	KD0WGB	KE2MM	KI5ICE	KN4JQE	KY4SV	N6OTQ	W2WCM	WA5TQB	
AJ4AC	K5VG	KB6CKM	KD2BMD	KE3UY	KI5IRI	KN4LGM	KY4VL	N6OUI	W2ZMZ	WA6LBU	
AK1VT	K5WEL	KB6KB	KD2DPO	KE4HJF	KI5IZK	KN4YOB	KZ6Q	N6UGY	W3ASW	WA7DGY	
AK4AT	K5WIX	KB7KBB	KD2DPP	KE4RBL	KI5JZK	KN4ZW	N0DRX	N7CIP	W3BS	WB0CSF	
AK4ME	K6ISK	KB7RAC	KD2EMQ	KE5BGG	KI5KHZ	KN5Z	N0DXH	N7HRI	W3DOV	WB1DSJ	
K0BMN	K6ODI	KB8AOB	KD2HCE	KE5MWQ	KI5KTZ	KN6DAM	N0OR	N7LPG	W4AFP	WB2AFC	
K0KSU	K6RDJ	KB8ESY	KD2HPQ	KE5RY	KI5OS	KN6ILF	N0PF	N7MWH	W4AGQ	WB2DX	
K0MRD	K6YYL	KB8MCI	KD2IBP	KE7RG	KI5RQG	KN6RSX	N0PMQ	N7RCE	W4BWJ	WB2IVN	
K0NH	K7DFL	KB8RCR	KD2KWS	KE8IME	KI5SML	KN6TUX	N0PUI	N8APT	W4CBH	WB2LZM	
K0SCH	K7ICE	KB8UEY	KD2NQV	KE8IOR	KI5SWA	KN6YLS	N0SAJ	N8LF	W4CCN	WB2TVE	
K0SSD	K7MKA	KB8UGP	KD2TYJ	KE8OGT	KI5SXR	KO4FUD	N0SJ	N8TZ	W4CXT	WB4OQF	
K0WKD	K7NHC	KB9GUX	KD2TZX	KE8OVP	KI5UCZ	KO4GAR	N1ABY	N9BFI	W4EHZ	WB6HAU	
K1CYJ	K7POE	KB9LXM	KD2WCY	KE8RJD	KI5UPP	KO4HNB	N1DH	N9EGF	W4FHC	WB6RIG	
K1EB	K7QHU	KB9OGS	KD3Y	KE8RRG	KI5VHC	KO4KRB	N1GKE	N9MS	W4MBU	WB6WCO	
K1UU	K7TSW	KB9UZO	KD4EYF	KE8SBZ	KI7CSN	KO4LEM	N1MRK	N9OSQ	W4MUF	WB7WVG	
K2DBC	K7TTN	KB9VAH	KD4FOS	KE8UWD	KI7PM	KO4MEX	N2FSH	N9PCF	W4RCX	WB8NAX	
K2FIG	K7VEN	KC0DVB	KD4GUB	KE8WGK	KI7RSB	KO4ODX	N2KED	N9UN	W4RDO	WB9AUV	
K2GQ	K8DUB	KC0MS	KD4LRU	KE8WLW	KJ2AM	KO4OZK	N2OWE	N9UTJ	W4SPB	WB9NIR	
K2K	K8EG	KC0TWB	KD4WHY	KF0BWA	KJ4RM	KO4PF	N2PNE	N9VDT	W4TGH	WD0FYF	
K2LOR	K8GIB	KC0WEA	KD5AT	KF0EAO	KJ6EEP	KO4PIV	N2QFT	N9VFP	W4UZW	WD0J	

Did you know we had 45 unique DX Stations that checked into our nets during the month of March, 2023. There were 23 Canadian DX stations and 22 Other DX stations. As for new stations, we had 320 unique new stations check into the nets in March.

23 CANADIAN DX STATIONS

K7ICE/ON	VE2KGK	VE6AO
KU1V/BC	VE3CMB	VE7VU
NH7DX/ON	VE3HMK	VO1OM
VA3EKR	VE3LPO	
VA3JCD	VE3MEU	
VA3TKA	VE3RR	
VA3YKT	VE3SSR	
VE1AOE	VE3WVJ	
VE1SN	VE3YWN	
VE2ACP	VE3ZSZ	

22 OTHER DX STATIONS

6Y5AG	Jamaica	40m SSB E	EA1GB	Spain	40m SSB L
8P4TD	Barbados	40m SSB L	F4IYD	France	40m SSB L
8P4UD	Barbados	40m SSB L	G2BUJ	England	40m SSB L
8P5AA	Barbados	40m SSB L	IZ7UNJ	Italy	40m SSB L
8P5GL	Barbados	40m SSB E	NP2ZZ	Virgin Is.	40m SSB L
8P6GE	Barbados	40m SSB L	ON7HJA	Belgium	40m SSB L
9Z4HP	Trinidad	40m SSB E	ON7JM	Belgium	20m RTTY
AB4GX	Dominican R.	20m SSB	SV1LJA	Greece	40m SSB L
9A/AE4NT	Croatia	40m SSB L	SV3JBA	Greece	40m SSB L
C6ANX	Bahamas	40m SSB E	US1VQ	Ukraine	40m SSB L
CE4PS	Chile	40m SSB E	UY2VM	Ukraine	40m SSB L

320 NEW STATIONS

AA2SD	K4WXA	KC1PKX	KD8SBM	KF0JAY	KJ6RKS	KO4YZG	N3ZY	W3ASW	WO4GQ
AA4AL	K4WZV	KC2NYB	KD8TF	KF0KRY	KJ6VJN	KO4ZDC	N4GV	W4AFP	WT3B
AA5AS	K5LXY	KC2RCU	KD9KAA	KF0KXT	KJ7ESD	KO4ZIS	N4JHD	W4AGQ	WW4ASA
AA5UY	K5SLE	KC2VES	KD9MAK	KF0LEA	KJ7VWR	KO4ZYT	N4JPD	W4BWJ	WW4Q
AA9TC	K5WIX	KC3JEH	KD9MIL	KF0LGV	KK4EC	KQ0Q	N4RGJ	W4EHZ	WW9P
AC9ZY	K6ISK	KC3SSG	KD9OIQ	KF4PCP	KK4JJG	KQ4ADL	N4THW	W4MBU	
AD8II	K6RDJ	KC3TLK	KD9TEX	KF5LJJ	KK4PQU	KQ4ASW	N4VGE	W4RCX	
AE0SH	K6YYL	KC3UBZ	KD9TPX	KF5TQT	KK7FJX	KQ4BSK	N5BTS	W4RDO	
AF7DG	K7POE	KC3VHD	KD9TSE	KF7ETM	KK7HLD	KQ4ELN	N5CCO	W4SPB	
AK4ME	K7VEN	KC4BIQ	KD9VZU	KF8XY	KK7HNY	KQ4ELW	N5CHL	W4TGH	
K0BMN	K8DUB	KC5DP	KE0KJN	KG0KP	KK7KBQ	KQ4ESA	N5EMS	W4UZW	
K0KSU	K8IQQ	KC5THR	KE0LVW	KG4FVR	KL4JP	KQ4FEG	N5KRU	W4ZWW	
K0MRD	K8ROY	KC6UJO	KE0PLV	KG5KYX	KM4DCQ	KQ4FMZ	N5UI	W7BO	
K0NH	K9SS	KC6ZKO	KE0PTE	KG5TQP	KM4EMR	KQ4FUR	N5WSV	W8TJO	
K0WVKD	KA0MEK	KC8JT	KE0VJI	KG6G	KM4JPL	KQ4FWE	N5YIF	W9GEO	
K1EB	KA3IVN	KC8WEB	KE0VMP	KG7AT	KM4LOZ	KQ4GDM	N6MUD	W9LVA	
K2DBC	KA3UFV	KC9IKB	KE0YZM	KI4BNC	KM4YBI	KQ4GIS	N6OUI	WA1NIP	
K2FIG	KA9LDD	KC9RH	KE2ABT	KI4HXT	KM6ASK	KQ4GQJ	N6UGY	WA4YL	
K2LOR	KB1JLT	KC9VPX	KE2AKA	KI4TUQ	KN4JQE	KR5G	N7CIP	WA7DGY	
K2SH	KB1PJC	KD2BMD	KE2MM	KI5CYA	KN4YOB	KT4ZM	N7MWH	WB0CSF	
K2ZIN	KB3VUP	KD2DPP	KE4HJF	KI5ELD	KN4ZW	KY4MM	N8APT	WB2DX	
K3FLH	KB4ECV	KD2KWS	KE4RBL	KI5ICE	KN5Z	KY4NS	N8LF	WB2IVN	
K3LT	KB4HAM	KD2NQV	KE5BGG	KI5IZK	KN6DAM	KY4SV	N9EGF	WB2TVE	
K3MD	KB4JOY	KD2WCY	KE5RY	KI5JZK	KN6ILF	KY4VL	N9OSQ	WB4OQF	
K3RNR	KB6CKM	KD4EYF	KE8IME	KI5KHZ	KN6TUX	KZ6Q	N9UTJ	WB6HAU	
K4AMU	KB7KBB	KD4FOS	KE8IOR	KI5KTZ	KN6YLS	N0OR	NB9D	WB6RIG	
K4BOV	KB8AOB	KD4LRU	KE8OGT	KI5OS	KO4GAR	N0SAJ	NC6U	WB7WVG	
K4KKQ	KB8MCI	KD4WHY	KE8RJD	KI5SML	KO4HNB	N1DH	ND9G	WB8NXA	
K4LEE	KB9OGS	KD5DCJ	KE8SBZ	KI5SWA	KO4KRB	N1MRK	NF2Q	WB9AUV	
K4NAJ	KB9VAH	KD5EJG	KE8WGK	KI5SXR	KO4LEM	N2SIQ	NI6R	WB9NIR	
K4OEK	KC0TWB	KD5QJQ	KE8WLW	KI5UCZ	KO4ODX	N2UNL	NL7XT	WD8NHK	
K4RXH	KC0WEA	KD5TDK	KF0BWA	KI7CSN	KO4PF	N3JOC	NM1O	WD9CQR	
K4TDW	KC1BFL	KD6CWI	KF0EAO	KI7RSB	KO4PIV	N3QQN	W2FKN	WG9C	
K4VBB	KC1KYH	KD7QOW	KF0GVX	KJ6HNV	KO4RBA	N3VET	W2IIT	WN6NW	
K4VML	KC1PKQ	KD8NZX	KF0HCY	KJ6OWI	KO4RUL	N3VZV	W2JLS	WO3O	

Unique Check-Ins By State and SSB Net

March, 2023

State	75M SSB EARLY	75M SSB LATE	40M SSB EARLY	40M SSB LATE	20M SSB	State	75M SSB EARLY	75M SSB LATE	40M SSB EARLY	40M SSB LATE	20M SSB
Alabama	1	0	4	4	5	Montana	1	0	0	0	0
Alaska	0	0	0	1	0	North Carolina	2	2	13	6	2
Arkansas	0	1	2	4	2	North Dakota	0	0	2	0	1
Arizona	1	2	4	3	0	Nebraska	0	0	3	1	0
California	1	0	5	25	0	New Hampshire	0	0	5	2	0
Colorado	0	0	5	4	4	New Jersey	2	0	7	1	6
Connecticut	5	3	3	1	1	New Mexico	0	0	1	0	1
Delaware	2	0	2	1	0	Nevada	0	0	1	3	0
Florida	5	1	24	16	15	New York	6	0	11	6	4
Georgia	2	0	12	5	0	Ohio	3	0	13	3	3
Hawaii	0	0	0	0	0	Oklahoma	1	0	6	3	2
Iowa	0	0	5	2	1	Oregon	0	1	1	4	1
Idaho	0	0	4	4	0	Pennsylvania	0	0	8	5	4
Illinois	1	1	6	7	1	Rhode Island	1	0	0	1	1
Indiana	5	1	8	4	1	South Carolina	5	0	8	3	5
Kansas	0	0	4	4	0	South Dakota	0	2	1	1	0
Kentucky	1	0	8	3	2	Tennessee	2	1	13	5	0
Louisiana	2	0	6	1	0	Texas	3	2	31	13	3
Massachusetts	0	0	5	0	1	Utah	0	0	0	1	0
Maryland	0	0	2	0	0	Virginia	3	0	9	2	4
Maine	1	0	2	0	2	Vermont	0	0	1	0	0
Michigan	2	0	10	3	1	Washington	0	1	2	7	0
Minnesota	2	0	4	2	2	Wisconsin	0	0	2	4	2
Missouri	2	1	8	5	3	West Virginia	1	0	5	1	0
Mississippi	2	0	3	0	4	Wyoming	0	0	1	2	0

Exit with a Smile!

