



# The Centurion



## The 3905 Century Club Monthly Newsletter

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## Welcome!

Hello and welcome to the July, 2023 issue of the 3905 Century Club Centurion Newsletter. In this issue is the wrap-up article for **Yukon John, KL7JR's** Amazing Alaskan trip. **Mike, KU1V** continues to head west. Also **David, WA4NID** contributes his first article to the Centurion. There are several articles about scanning QSL cards and the new features coming to CCLogger.

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](mailto:k7qhu@outlook.com).



Can you identify the item in the photo to the side? If you think you know, please send an email with your guess to the Centurion at:

[k7qhu@outlook.com](mailto:k7qhu@outlook.com)

The first winning answer will receive a 1 year subscription to the Centurion!

Hint: it is a tool used by one of our members to assist in his club pursuits.

The answer will appear in the August issue of the Centurion.



# Dean's Column

## Notes from the President

By Dean Davis, N7XG



It seems like every few days someone is commenting on poor QSL return rates. We have members who claim that their rate is 91% while most people have theirs in the 70s. I have been tracking mine for years and in 2015 my rate was 79% and now days it is around 73%. Prior to 2015 I hardly worked any station that was not good in the bureau while now I don't miss a chance to work anyone including new stations that are new to our nets. There are many forms of getting stations to return cards to you including email and snail mail. In 2017 I tried using snail mail for about a year and sent out 200+ plus cards with SSAE envelopes and still my return rate remained the same. My turning point was a discussion I had with Bill Dobson, [N3WD](#) during my ride back to the airport from the 2019 Eyeball. He explained to me that he designed what he called a "return card" and included it with every request he made to the direct station. He also explained to me that it had made a big difference. Later that week Bill sent me the artwork (Card 1 below). I had a small batch of cards printed and was excited to see for myself if it actually worked.

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

Zip: \_\_\_\_\_

**Confirming 2X QSO With**


**To:** \_\_\_\_\_ ☐ Mobile ☐ Portable ☐ Fixed

**On The -** ☐ Early Net ☐ Late Net ☐ QRP Net ☐ CCN Net

Day	Month	Year	Time / UTC	MHz	2X Mode	RST S	RST R


Operating Fixed Mobile Portable - \_\_\_\_\_

Please Initial Here: \_\_\_\_\_



So that got me thinking, why not just create a QSL image and send it to the direct station using my "Instant QSL" feature of the logger at the time of the contact. And again, my qsl return rate went up a bit. Progress, absolutely. Elsewhere in this issue you can see a sample of everything I send but below is the return card image that I am getting returned to me.

# NFØJ



Operating ☐ Fixed ☐ Mobile ☐ Portable

**To ARS: KL7OR** Fixed

On the 3905 - 20m SSB Net

Date	Time (ZULU)	Freq	Mode	Your RS†	MyRST
19-Jun-23	19:14	14.328	SSB	55	59

Dave A Ruch  
P.O. Box 1110  
Elephant Butte, NM 87935

Please initial here: \_\_\_\_\_

**Card 2 (Instant QSL card)**

And finally, this is yet another example of a return card that Dave sends to directs. In talking with him he estimated that he is getting about a third of them returned.

## KL7OR OR

Dean W Davis  
3596 Karen Ave S  
Salem, OR 97302

3905 75m SSB Late Net

Station	Date	Time	MHz	Band	Mode	RST-S	RST-R	QSL
<b>AI4K fixed in TN</b>	03-Jun-2023	05:13z	3.909	80m	SSB	57	57	NCN

Awards  
75m SSB-100#2542 SSB-1K#515 SSB-2K#245 SSB-500#9  
80m RTTY-100#85 PSK-100#78 CW-100#137

Authenticated by \_\_\_\_\_

In summary there is actually proof that if you include a “return QSL card” with your own you can expect a percentage of the new stations will return the card to you that will in turn improve your QSL rate. It all depends on how hard YOU are willing to work at it. I will say that providing a completed card like mine or Dave’s works better.

In summary I would like to announce that at this time of reading this issue of the Centurion the Eyeball is a little over 60 days before it starts. This one should be a lot of fun.

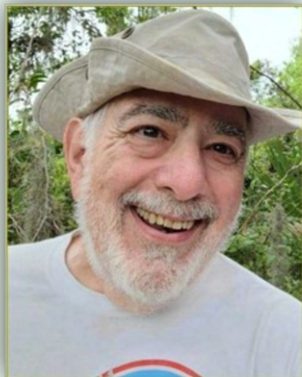
73,

Dean, KL7OR

# BEN'S COLUMN

## Notes from the Awards Secretary

By [Ben Goldfarb](#), AE4NT



**H**ello, 3905ers! I have returned from my late spring road trip, and I am all caught up with your awards. So, I will blow some wind in your direction. This month's column provides a recap of my road trip, describes details of my mobile station, and issues an award challenge for you overachievers out there. Let's hit the road!

## Road Trip

My plan was to send XYL [Jenny, KM4NEK](#), up to Chicago on a commercial flight to visit Dear Old Dad, while I roamed around in the Tesla providing club contacts from a few state capitals. A secondary objective was to add two needed states to my Clint Wise Mobile total, namely, New York and Michigan. After that, the plan was to drive Jenny and me home to Central Florida after spending a couple of days with the family in the Windy City, with the possibility of squeezing in a little more mobile operation on the way back. Unlike last year and its aborted road trips, this time I accomplished all my objectives. Additionally, I was able to add a visit with an old club friend on a cold and rainy day in Wisconsin and later, operate from a state line as the swan song for this road trip ballet.

## Tuesday, June 6 – Lift Off!

I dropped Jenny at Orlando International Airport at about 6:30 AM for her flight to Chicago-O'Hare, and then I came back home. Full self-driving, courtesy of Elon Musk, sure helps at that hour of the day! Once home, I prepared the house for departure and hit the road at 9:30.

My first night was in Columbia, South Carolina, the state capital. After an uneventful drive, I operated on 40M SSB Early only because the noise on 75 was awful, and I had a headache, besides. So, I bagged it and went to bed.

## Country Roads

On the following morning, I drove up to Charleston, West Virginia, my next state capital. The scenery was beginning to look homey and familiar, as I grew up not far away from there, in Pittsburgh, which I would visit in the morning.

After dinner at an establishment called Quaker Steak & Lube, I operated from Charleston on 40 and 75 Early SSB nets. At first, noise levels were obnoxious, but while taking a break from the net, I drove to a quieter place with much less QRN. After that, I no longer was handing out signal reports like 39 or 27! I made lots of contacts from Charleston.



## Back to da Burgh

As I mentioned, I grew up in Pittsburgh, so a visit there was essential before moving on to Western New York. And despite a public challenge from [Editor Steve, K7QHU](#), I survived the Primanti's sandwich I enjoyed at the Oakland location, where I found a parking spot right in front of the restaurant on Forbes Avenue, a fortuitous find, indeed! (Parking in Pittsburgh is obnoxious).

After my sandwich and beer, I was ready to leave the city to start the trek northward toward Erie, Pennsylvania, and eventually, Jamestown, New York. [Peter, N2XTT \(Master #6\)](#), advised me that his contact with me there was his 27<sup>th</sup> or 28<sup>th</sup> state for me (I forget which – but he wound up getting up to 30 states with me before this trip ended). Interestingly, while chatting with [NCS AC2MT, Rich](#) reminded me that I was in [Lucille Ball's](#) hometown. So, I did a little research and discovered that Lucy's ashes had been moved back to Jamestown from Hollywood in 2002. A visit to her grave was therefore obligatory. (See photo). Lucy is gone, but not forgotten. She gave us all so many laughs and she continues to provide laughter for younger generations long after her passing.



Big thanks to [Rich, AC2MT](#), who took it upon himself to fill in as NCS on the 75M Early net that same night after running the 40M Early net with no rest in-between. I had mentioned to Rich that it looked like no NCS had shown up for the 75M net. Without hesitation, Rich picked up the ball and ran with it, for which I am grateful.

## The Water is Cold but Who Cares?

From Jamestown, a swing toward the Midwest took me to Coldwater, Michigan. Originally, I had intended to work from the IN-MI-OH Tri-Point, but I dumped that idea because I wanted to eat dinner at the gyro joint right next to the joint where they sell joints. Yeah, recreational weed is legal in Michigan, but I didn't buy any. The weed store across from my hotel was situated between the gyro shop and Goodwill, for one-stop shopping, and this is all right off Interstate-69. Sometimes, happenstance is good for a big belly laugh, but I digress.

Ralph's (KG8WL – Master #71) signal was strong as usual. Well, stronger. He was only 20 miles away. He told me to stop by if I had a chance, but I was out of there early in the morning, headed to Appleton, Wisconsin, for my next stop.

## Rainy, Chilly, Dairy State

The cows were making creamsicles in Wisconsin that day, as a cold front pushed the temperatures into the 40s and dumped a lot of rain on the cheeseheads. After a hearty dinner at the Machine Shed in Appleton, I worked the nets in the rain while Tesla's climate control kept me comfortable without giving me carbon monoxide poisoning.

Roger, W9ROG, asked me whether I would be going to Chicago on I-90 or I-94. I said I hadn't decided. He invited me to stop by his house on the way, so I took I-94. Besides, the Edens Expressway runs right by Jenny's childhood home. I was due in Chicago at 4:00 PM for a family Sunday dinner, so I had plenty of time. Roger and Sue took good care of my stomach, and we had a nice visit, catching up on club issues. Roger said he thought we were going to sit outside and enjoy the nice summer weather, but it sure wasn't summer on THAT day!

Between Racine, where Roger and Sue live, and Chicago, I needed to stop at a Walmart in Waukegan to buy an additional layer of clothing. That's what I get for complaining about Florida summers! Alas, the store had purged all its cold weather gear, so I could only buy a flimsy long-sleeved shirt to stave off the cold and damp.

## Illinois

After a couple of days catching up with Jenny's dad, Charlie and her brother, Chuck, we took off for Springfield, my next state capital. The problem was that all the hotels in Springfield were booked to capacity, as Governor Pritzker was signing some misguided, high-profile legislation, so we had to stay twenty miles away, in Lincoln. After dinner, Jenny was tired, so she hit the bed, while I trekked down to the capital city. Worked the Early SSB nets from there. Driving back after dark was nerve-wracking because it was a lonely road where I had seen many deer carcasses on the way down. Hitting a deer at highway speed would have ruined a productive and fun trip, but with no incidents, I returned to sleeping Jenny.

We visited some of Jenny's relatives in Southern Illinois – Centralia, to be exact – and then were on the road again around noon, with Chattanooga in our sights.



## 'Nooga and Home

The original plan did not call for operating from Chattanooga, as we would be arriving too late for the Early Nets. However, we were staying in East Ridge, which is right on the Georgia Border with Tennessee, which was way too tempting for me. We found a joint that was open for a late supper, where we decided that I would do just one more net. So, I found a good operating spot right on the line to do the 40M SSB Late Net, where I could give some late net people contacts operating from the GA/TN line, as I had not been able to work the late nets elsewhere on the trip.

In the morning, we were homeward bound. Jenny spotted a huge male dobsonfly on the brick wall of the hotel, which she photographed. Funny how it did not look at all like [Bill Dobson, N3WD \(Master #43\)](#), but it must have been named for one of his relatives.

Alas, it rained cats and dogs all the way from south of Atlanta to North Florida, where some of it was so heavy that I could not see twenty feet in front of me. (But idiots were still doing 80 mph on I-75).



And thus, wetly, we wrapped up the road trip. I spent the weekend generating QSL cards, sending out at least 250 of them, mostly to the bureau. Thanks to Rob and Rob for making it easy to deal with bulk QSL mailings and thanks to all of you who contacted me on this road trip!

## My Mobile Rig

[Randy, KY1KY](#), remarked several times about how good my mobile signal was as I was operating from various locations. Through many road trips, Eyeball QRP nets, and mobile antenna shootouts, this rig and its similar predecessor have provided me with all I need for successful mobile operations. Accordingly, I thought I would give you a sketch of my mobile station. Not gloating here – I am certain that there are better mobile stations out there – but this is what works for me. My ICOM IC-7100 hears well and has enough filters and noise blanking to deal with the QRM and QRN. It nominally outputs 100W, but real output depends on lots of things – battery voltage, resistance of the power cables, and SWR, to name a few



major ones. Like many modern rigs, the IC-7100 folds back power as SWR increases, so with a multi-band, compromise mobile antenna, I am certainly never putting out 100 watts, even if the power setting is 100%. However, never have I ever felt the need for any additional power.

I mount the main guts of the IC-7100 in a rear storage compartment that extends lower than the floor of the rear of the Tesla Model Y, mostly hidden from sight. As you can see in the photo, the head unit with its built-in speaker is up front with me, along with the remote keypad for the TuneMatic TM-1, a subject I will cover later. Both are supported by a heavy-duty cupholder mount from Lido Radio. All wiring is concealed, including the coax to the antenna, which is hidden inside the bumper cover.

## The Antenna

Speaking of the antenna, I am using a Tarheel 100-A HP attached via an offset hitch mount. Not that I use the HP (high power) part, but I've owned that Tarheel for a long time. The HO option means that its coil is constructed quite well to handle full legal limit, so it is a rugged design than the non-HP model. I sold a Tarheel 400-A to [Gary,](#)



[K9GWS](#) last year, and that was a great antenna, too! It has a taller coil, and it can tune 160 meters! I just didn't need both antennas. But I digress.

The 100-A requires a shunt coil at the base, which all but guarantees less than optimal SWR when it is used for multiple bands. I must compromise between 40M and 75M (my two primary bands of mobile operation). If the shunt coil minimizes reactance on 75, it will be out of whack on 40, and vice-versa. Maybe I should play with some switchable inductance values at the base of the antenna someday. Yeah, someday. In the meanwhile, I'll spend endless hours with one of my antenna analyzers and a lot of patience, trying to adjust that coil for good performance across the bands. (Then, someone – probably me – will bump it in a parking lot and change the inductance. Some have tried putting plastic covers over the damn thing, but that changes the inductance, too.).

On top of the Tarheel's main antenna coil is a Tarheel factory cap hat and a six-foot whip. Yeah, I know. The best place for a cap hat is on TOP of the whip. However, this arrangement works for me, so I am happy with it as-is.

## TuneMatic, from JT Communications

I auto-tune the coil using a TuneMatic TM-1. Not only have I found this to be the best of the available auto-tuning units designed for screwdriver antennas, but also the



company owner and chief engineer, [Jim Trapani, KA2MBE](#), provides excellent customer support and he's right up the road in Ocala, Florida.

The TM-1 not only stores memory positions for the antenna but also uses those stored locations as a base for fine-tuning, using active frequency and SWR sensing circuits to automatically home in on optimal SWR. This differentiates the TM-1 from its competitors. Another thing that differentiates it is that it is not backordered for interminable periods.

Jim freely shares detailed schematics and programming information. And now, Jim has even designed a version that works with Yaesu ATAS screwdrivers, which was difficult because the ATAS does not generate a turn count. Jim is constantly improving his products and provides firmware updates periodically to existing customers. He is active and accessible at all the major ham gatherings. It is cool that you can chat with the designer and share ideas. I highly recommend the TM-1 for anyone needing a automated tuning apparatus for their screwdriver antenna. (This is an unsolicited testimonial based on my positive experience with the product and some not-so-positive experiences with others).

## More Power to You

For rig power in the car, I don't use the Tesla electrical system. While trying to connect to the 400-volt main battery, I didn't feel like blowing up my rig. The accessory circuits in the Tesla are only able to supply 15 amps, but the IC-7100 requires 22 amps on transmit. So, my solution was a 30 amp-hour Bioenno battery under the rear deck, charged by a DC-DC charger connected to the 12V (nominal) accessory outlet to trickle charge the LiFePO4 battery during and between operating sessions. This works well for me, and the 30 AH LFP battery requires very little space.

## Award Challenge – Worked All States, All Nets (Expert)

Want to shoot for the moon? Well, the club has an award for you! This one is called *Worked All States, All Nets (Expert)*, the award fee is waived, and you could be the all-time first to earn it. Its concept is simple. Just earn WAS on all fourteen band/mode combinations for which the Club runs nets. Very easy to understand; very difficult to earn. Who will be the first? It could be YOU!

If the Expert version of the award seems extreme, the Intermediate version is certainly within anyone's grasp. It requires a mix of contacts to make up the fifty required states, such that all our bands/modes are used. For each of our fourteen band/mode combinations, you'll need three states, which brings you up to forty-two states. Then, you fill in the remaining eight states with contacts on any band/mode other than 40M and 75M SSB, with the added restriction that no more than four states can be covered by any single band/mode combination. You might need to read the rules a few times to get the idea, but this award has been earned eight times since 2009, so it is provably doable. Current members who hold this variant are: [Johnny, KI4WCQ \(Master #52\)](#); [Peter, N2XTT \(Master #6\)](#); [Richard, W5IL \(Master #10\)](#); [Jimmy, N5OHL \(Master #17\)](#); and [Mark, KI0Y](#). Why not take a shot at joining that elite group of members!

## Happy Independence Day!

*To all you US members, have a happy Independence Day celebration, and to all our Canadian members, Happy Canada Day!*

*I'll be back next month to run off at the mouth in your direction again!*

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## USPS is hiking the price of a stamp to 66 cents effective July 9, 2023.

The U.S. Postal Service will soon be raising the price of its first-class stamps to 66 cents, an increase of 4.8% from its current 63 cents. The move, announced by the USPS in April, is the latest in a flurry of rate boosts that will result in the cost of a first-class stamp rising nearly one-third since 2019.

The latest hike will go into effect July 9. Under Postmaster General Louis DeJoy, the money-losing agency has embarked on a 10-year plan to get on a path to profitability — with higher postage rates as part of the blueprint.

The July 2023 price hike will represent the fifth increase since early 2019, when a Forever stamp cost 50 cents. The higher postage prices haven't come without criticism, however, with some postal experts pointing out that customers are paying more while getting less for their money.

That's because the 10-year plan has slowed the post office's delivery standard for mail to six days, down from its prior goal of three-day delivery to any destination within the U.S. And the series of price hikes means that the cost of a postage stamp has soared much higher than inflation, which has jumped 20% in the same period, according to the Bureau of Labor Statistics. - [Courtesy CBS NEWS](#)

The (now frequently occurring) postal rate hikes are another reason why the on-going club discussions regarding electronic QSL confirmations should be of interest to all members. If you have the time and get a chance, it would be worthwhile to watch the clubs May Board Meeting ([\(12\) 3905 Century Club Board Meeting - May 13, 2023 - YouTube](#) ) and June Board Meeting ([\(12\) 3905 Century Club Board Meeting - June 10, 2023 - YouTube](#) ), where this topic is discussed. Be sure to contact your area director with any thoughts you have on the subject!


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## A history of 3905 Century Club QSL cards

by Marty Blaise, AG5T

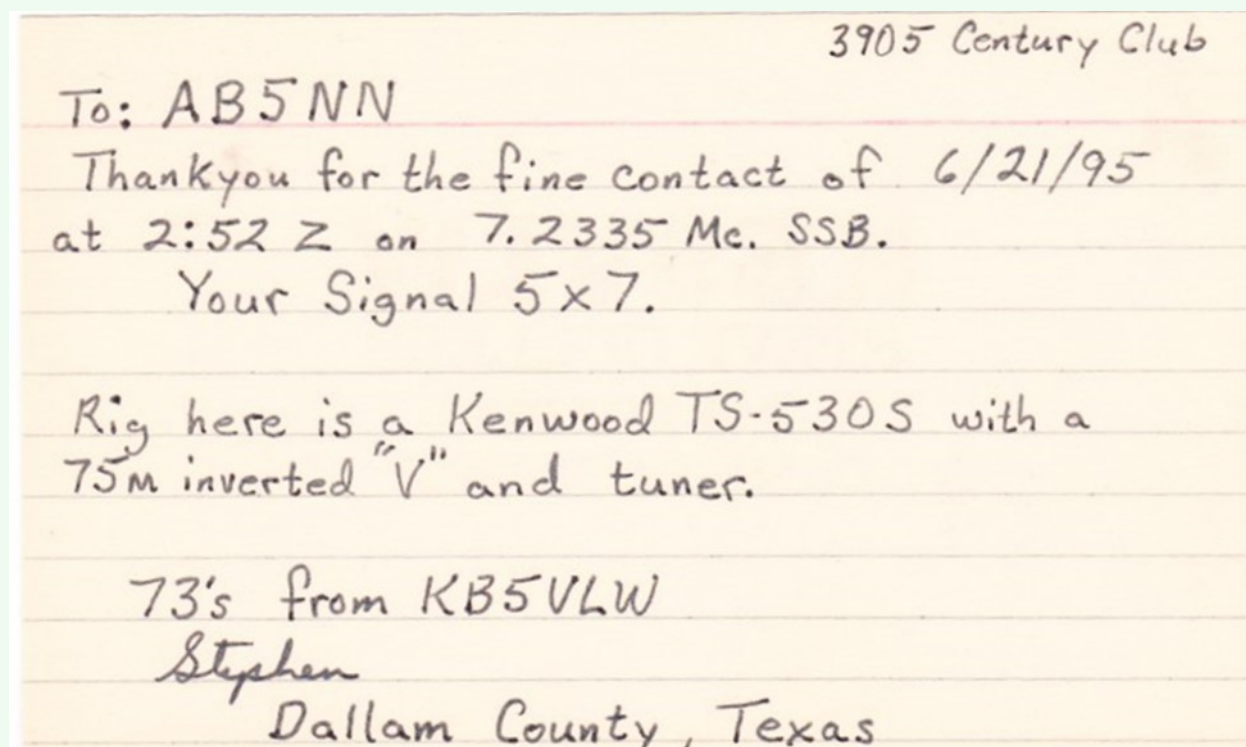


**Q**SL cards are the foundation of contacts made in the 3905 Century Club. Cards come in all kinds of sizes, types, materials as well as online. I once received a QSL card that was 8 ½ inches x 11 inches. I also received information on an index card. Both had the correct information for a contact. I went back to my boxes of old cards to see what I could find. So here is another trip down memory lane, plus a few pointers on how the cards could be improved.

	<h1 style="color: red;">K7QHU</h1>		<b>3905 Century Club Award Numbers</b>  <b>100 Pt 40m SSB #2472</b>			
	<h2 style="color: red;">Eagle, Idaho USA</h2> <p style="color: red;">Ada County</p>					
Stephen Davis 1190 N. Red Leaf Way Eagle, Idaho 83616		<b>3905CCN</b> <b>40 Meter Late Net</b>		Rig: Kenwood TS-130S Output: 100 Watts Antenna: Inverted Vee		
Please QSL <input checked="" type="checkbox"/> Thanks QSL <input type="checkbox"/>						
Confirming QSO With:	Date (Z) MM/DD/YY	Time UTC	Freq MHz	RS(T) Sent	RS(T) R'cvd	Mode
AG5T	9/29/2007	05:17	7.178	55	33	SSB

In 2207 I worked our current Centurion editor when he was living in Idaho! Nice card layout including 3905 Century Club information on the card and a note that it was a late net. You could see from the UTC time of 05:17 it was a late net, but putting late net on the card is good to have and will help the awards checkers.

At right is an example of an Eqsl. I would have added 3905 CC contact somewhere on the report. Some people use Eqsl while others do not. Note: Unless you have a printer that can handle card stock, Eqsls are usually printed on regular stock printer paper (that's like a regular piece of copy paper).



QSL card on an index card! This person from Texas did not have any cards yet, but was kind enough to include all the information on this card. And this contact was good!



FROM A. R. S. AA5NN

TO A. R. S. WU9T/m7 Confirming QSO On RTTY 7085 MC.

( ) 2XSSB ( ) CW ( ) AM While Operating ( ) Fixed  
( ) Portable (X) Mobile From the Following Location.

DATE	GMT	RST	CITY	STATE	COUNTY
22 JUL	0227	339	THAYNE	WY	Lincoln

Signature \_\_\_\_\_

McMinn Quality Printing Fults, Ill. 62244

### Wrong call sign!!

When I got the call AB5NN I got a slew of AA5NN cards. I don't know what AA5NN did with all the cards he received!! WU9T (SK) was operating RTTY mobile!!!

MARY MOORE E. 4007 12th AVE. SPOKANE, WA 99202 USA

3905 Century Club Net


Thanks Marty

**AA7RT**

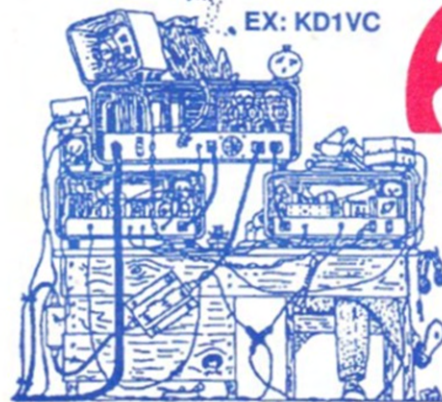
TO RADIO	CONFIRMING QSO		<input checked="" type="checkbox"/> PSE QSL	<input type="checkbox"/> TNX QSL
AB5NN	DAY	MONTH	YEAR	UTC
	17	NOV	93	02:09
	MHZ	RST	2-WAY	
	7.233	22	SSB	

This is an early YL card. You would assume that Mary is a female operator and a YL. I would have added "yl" to the card. There are names like Marty, Jamie, Hunter, Skyler etc. that can be male and female names. Just writing YL somewhere would take a second or two.

CONFIRMS		
2-WAY RADIO CONTACT <input checked="" type="checkbox"/>		
RECEPTION REPORT <input type="checkbox"/>		
RADIO	N50HN	
DATE	25-APR-92	
UTC	MHZ	MODE
0502	7.233	43
POWER	RST	
100	5/5	
QSL	In	
EQUIPMENT	HW101	
ANTENNA	Dipole	
CARL HANSEN P.O. BOX 14461 PHX, AZ 85063		



Here's an interesting card. It's a capital. It looks like someone took markers and filled in the picture and call sign. I think this is the only time I've ever worked Phoenix. Not sure if it is that rare, but for me it is. Using markers during the net maybe?

EX: KD1VC		<b>AAIME</b>																	
		<b>GEORGE W. BRANCHAUD SR.</b> 243 AIRPORT RD. NORTH CLARENDON, VT 05759 U.S.A. RUTLAND COUNTY 10-X #63952 CC #2015 80Mtr																	
MEMBER <b>10X</b> INTERNATIONAL		CENTURY CLUB EARLY NET - <input checked="" type="checkbox"/> LATE NET - <input type="checkbox"/>																	
<input checked="" type="checkbox"/> Pse QSL <input type="checkbox"/> Tnx		<table border="1"> <tr> <th>CONFIRMING QSO WITH</th> <th>DAY</th> <th>MONTH</th> <th>YEAR</th> </tr> <tr> <td>AG5T/NCS</td> <td>23</td> <td>7</td> <td>97</td> </tr> <tr> <td>UTC</td> <td>MHZ</td> <td>RST</td> <td>2-WAY</td> </tr> <tr> <td>0152</td> <td>7.243.5</td> <td>5/3 5X5</td> <td>550</td> </tr> </table>		CONFIRMING QSO WITH	DAY	MONTH	YEAR	AG5T/NCS	23	7	97	UTC	MHZ	RST	2-WAY	0152	7.243.5	5/3 5X5	550
CONFIRMING QSO WITH	DAY	MONTH	YEAR																
AG5T/NCS	23	7	97																
UTC	MHZ	RST	2-WAY																
0152	7.243.5	5/3 5X5	550																

I included this card because George, now a Silent Key, was one of our Eyeball hosts. Also, doesn't his card show a good representation of our radio rooms? The call sign is in a unique type of font as well.

73,

Marty AG5T





## The QSL Lifecycle using Century Club Logger

This month I will cover the life cycle of the QSL, from the point you decide to work a station until you can finally check them off with a receipt of a QSL confirmation and get started with using the logger for award generation. As in the previous column of the Centurion I will try and focus on features and benefits of the Century Club logger and in this process, I will point out differences between the Century Club logger and NetLogger.

Here is the general overview of the life cycle of a contact:

Make a contact and log it

Send out QSL confirmations

Receive QSL confirmations from stations you worked

Checkin QSL confirmations and optionally catalog the cards

Using confirmed contacts apply for awards

As you read through this article, please take note that using the Century Club logger you will be able to go “paperless” with many of your activities.

### Logging Contacts

Before the days of computers, we maintained paper logs in various forms to capture information about a contact(s). Below is an example of a partition of AG5T’s log from 1997:

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REC'D	TIME OFF	QTH	COMMENTS NAME	QSL VIA	QSL S	R
7 May 1994	7.2335	SSB X2	100	0335	KC7ALM	5x7	5x7	0335	☆		AA5ES	✓	
18 May 1994	"	"	"	0126	KB5IPQ	5x9	5x9	0126			"	✓	
"	"	"	"	0326	KA2NMH/m	4x4	4x4	0326			"	✓	
"	"	"	"	0231	AA3BU	5x9	5x7	0231			"	✓	
"	"	"	"	0257	N9MDW	5x9	5x5	0257			"	✓	
"	"	"	"	0348	KL7IFP/m	3x3	4x4	0348	☆		"	✓	
24 JUN 1994	"	"	"	0128	KR4GD	5x5	3x3	0128			"	✓	
"	"	"	"	0303	KJ5VV	5x7	5x7	0303			"	✓	
2 JULY 1994	"	"	"	0145	AA1IF/port.	3x3	3x3	0145	RI	Direct ?			
27 JULY 1994	"	"	"	0213	KZ3K/mob.	5x9	5x9	0213	NEB	AA5ES	✓	✓	
"	"	"	"	0250	K9MZA/mob.	5x9	5x9	0250	WIS	"	N/A		
"	"	"	"	0302	WA4MFF	5x7	5x7	0302			"	✓	
"	"	"	"	0307	K4MPJ	5x9	5x9	0307			"	✓	✓
"	"	"	"	0316	AB5SV	5x9	5x9	0316			"	✓	
"	"	"	"	0322	KC5GHR	5x9	5x9	0322			"	✓	✓

Note the care to detail his logging was there was a lot of information not recorded. For example, where was KC7ALM located. Take a look at KA2NMH, where was he mobile?

Using the Century Club logger, you will soon find out that this logger captures all of the variables in a contact that may be useful for tracking contacts and processing CCN awards. Consider working a National park and all that was logged was "NP" and you have no idea what part the station was in. By using the CCN logger when you worked that part the CCN logger will prompt for you to select from a list the park name. When you log a contact in addition to the basic data (call, mobile, state, date, time, rst plus a few more) the CCN logger creates a container of over 150 different pieces to data about the current status of the contact and future activity such as: QSL Sent set to Not sent; QSL Rec set to Not rec.


### Creating/Sending QSL Cards

Take a look at my example of my KL7OR card below. I have my location, my progressive award numbers, the net name and QSL via denoting Direct (do not send to the bureau). In addition to sending card images there are a number of email templates included with the software that also can be sent.

Once you have worked a station you may use the [Instant QSL](#) feature to send your card (s) immediately to the station you worked. Below is an example of the images I send out: My card KL7OR (upper left), optionally my club K7OPQ card on the right, and for new stations [a return card](#) (explained elsewhere in the issue of the Centurion) on the bottom left.



## Instant QSL



**Oregon State Capital**


Dean Davis  
3596 Karen Ave S  
Salem, OR 97302

Dave,  
Thanks for the 20M NM contact on the 3905 SSB Net  
73's Dean, President, (2 VIP points)  
40M SSB 100pt #2164, 1000pt #465, 2000pt 226, 75M SSB  
100pt #2542, 1000pt 515, 40M/RTTY 100pt #79, 40m CW #195

Station Op: Dave A Ruch  
I was operating: Fixed In: OR ☐ THX QSL  
☒ PSE QSL  
☐ No Card Needed

QSL card produced with CC Logger www.alpinesoft.com

Station:	NF0J
State:	NM
Date:	19-Jun-23
Time:	19:14
Frequency:	14.328
Mode:	SSB
My Rst:	55
	59
QSL Via:	Direct



**Oregon State Capital**


Dean Davis  
3596 Karen Ave S  
Salem, OR 97302

Station Op: Dave A Ruch  
I was operating: Fixed In: OR ☐ THX QSL  
☒ PSE QSL  
☐ No Card Needed

QSL card produced with CC Logger www.alpinesoft.com

Station:	NF0J
State:	NM
Date:	19-Jun-23
Time:	19:14
Frequency:	14.328
Mode:	SSB
My Rst:	55
	59
QSL Via:	NoCard

**If you do not have QSL cards, please print and cut out the image below, initial it and return it to me at the above address.**



Operating ☐ Fixed ☐ Mobile ☐ Portable

**To ARS: KL7OR** Fixed

On the 3905 - 20m SSB Net

Date	Time (ZULU)	Freq	Mode	Your RST	MyRST
19-Jun-23	19:14	14.328	SSB	55	59

Dave A Ruch  
P.O. Box 1110  
Elephant Butte, NM 87935

**Please initial here:** \_\_\_\_\_

**I have also included a card for my club. When we worked you also worked my club (2 for 1).**

**There is no need for you to return to me a card for my club.**

Since I have started sending out Instant QSL's to people (primarily direct QSLs) that have a good email address on file with QRZ, my QSL return rate has improved.

Using the Instant QSL feature will require you to purchase a little program called bioPDF (basic version is \$29.95), adjust a few settings, review your QSL template and from that point on all you do is right click on a contact, select Instant QSL, answer a few questions and finally watch you mail box as you will get QSL confirmations sent back to you.

## QSL Card/Label Generation

Another feature with the logger is the creation of QSL cards or labels anytime after the contact is made with no intervention to "touch up the card" with additional information, such as marking contacts with High-Point, national Parks, etc.. The QSL card generation feature was one of the most important features included in the first release of the logger back in 2003. If I had a single penny for every card produced by members of the club I would have my trip paid every year to the eyeball <g>.

Contact with	Date	Time	Freq	Mode	My	UR
<b>W6PNY</b> Mobile CO	DD/MM/YY	UTC	MHz	2-way	RST	RST
	03-Jun-23	17:28:22	14.339	SSB	59	57
<b>Oregon State Capital</b>						
20m SSB Net	NCS	K9GWS	Pse QSL <input checked="" type="checkbox"/>	Tnx QSL <input type="checkbox"/>	NCN	

Mac,

Thanks for the Officer 20M Mobile CO contact on the 3905 SSB Net

73s Dean, President, (2 VIP points)

40M SSB 100pt #2164, 1000pt #465, 2000pt 226, 75M SSB 100pt #2542,  
1000pt 515, 40MRTTY 100pt #79, 40m CW #195**KL7OR**

I was operating: Fixed OR

cc40

**KL7OR****Oregon State Capital**

Dean Davis

3596 Karen Ave S

Salem, OR 97302

Mac,

Thanks for the Officer 20M Mobile CO contact on the 3905 SSB Net

73s Dean, President, (2 VIP points)

40M SSB 100pt #2164, 1000pt #465, 2000pt 226, 75M SSB

100pt #2542, 1000pt 515, 40MRTTY 100pt #79, 40m CW #

Station Op: Win J Mccracken

I was operating: Fixed In: OR

Oregon State Capital

Flex-6600

Alpha 8410

QSL card produced with N7XG Club Logger www.alpinesoft.com

☐ THX QSL☒ PSE QSL☐ No Card Needed

Power: 1200



Station:	<b>W6PNY</b> Mobile
State:	CO
Date:	03-Jun-23
Time:	17:28
Frequency:	14.339
Mode:	SSB
My Rst:	59
	57
QSL Via:	cc40

These 2 examples are just samples of what the logger will produce. Using the feature rich Report Manager you can add, change, or delete anything on the card just to fit YOUR needs.

## Checking in QSL Cards

Checking in QSL cards is a snap. Using the QSL card checkin, just enter a call sign or partial call. Items in red are already checked in, and items in yellow are not. Simply double click on any like to check in a card.

Mobile	State	Date	Time	OpState	NetName	Sent	DateQSLSent	Rec	DateQSLRec
	NM	10-Oct-21	04:09:13	OR	40m SSB Late Net	S	10/12/2021	R	11/18/2021
	NM	25-Dec-21	06:09:01	OR	160m SSB Late Late Net	S	1/12/2022	N	
	NM	08-Jan-22	06:27:10	OR	160m SSB Late Late Net	S	1/12/2022	R	3/6/2022
	NM	27-Mar-22	04:49:53	OR	40m SSB Late Net	S	3/31/2022	R	8/12/2022
	NM	11-Sep-22	04:10:28	OR	40m SSB Late Net	S	9/27/2022	R	12/12/2022
	PA	13-Aug-19	05:21:16	OR	40m SSB Late Net	S	8/28/2019	N	
	PA	04-Apr-20	04:22:40	OR	40m SSB Late Net	S	4/19/2020	R	8/27/2020
	TX	29-Mar-20	04:23:58	OR	40m SSB Late Net	S	3/30/2020	R	4/7/2020
	TX	17-Apr-20	04:27:24	OR	40m SSB Late Net	S	4/19/2020	N	
	CA	08-Oct-16	05:31:48	OR	40m SSB Late Net	S	10/14/2016	R	12/10/2016
	CA	27-May-17	18:08:00	OR	20m SSB Net	S	5/29/2017	R	8/19/2017
	CA	30-Jul-17	04:46:54	OR	40m SSB Late Net	X		N	

## Cataloguing QSL Cards

A recent feature that has been added to the logger is to take jpeg images of your cards, assign (catalog) the image (either the only side of the card, or both the front and back). And save the image into a standard folder for future use.



## Awards

The real magic starts when you have all of your contacts organized, QSL confirmations married to actual contacts and are ready to use the logger to assist you in creating your award applications. Here is a sneak preview of a generated award, however I will save the topic until a future issue of the Centurion.

Band: <b>40M</b>	3905 Century Club, Inc.		
Mode: <b>PSK31</b>	100 Point Progressive		

---

**I A. State Capital**

AR	WB5FDP		
MIN	N0MNO		
TX	KE5AQD		

**I B. 2 Letter Calls**

AZ	K17PM		
CA	AD6ZJ		
MD	WT3F		
MIN	KG0DX		
MS	WY5S		
NC	NC4MO	NW0W	
NJ	NJ2LHP		
OR	AC7XF		
TN	KJ4JC	KX5OU/P	NS2X
WI	N9BC	W9OO/P	

Enclose QSL cards (or clearly scanned copies) in the order shown above and mail to your Awards Manager.

Please check the 3905 Century Club website for current information regarding award fees, methods of payment and additional items that are required when submitting any Club award. Detailed information can be found here: <http://www.3905ccn.com/newsite/awards-program.htm>

<b>Name:</b> Dean Davis <b>Address:</b> 3596 Karen Ave S Salem, OR 97302 <b>Email Address:</b> dean@alpinesoft.com	<b>Call:</b> KL7OR <b>Phone No:</b> 503.540.3270 <b>Date:</b> June 25, 2023
---	---

Checked By: \_\_\_\_\_ Call: \_\_\_\_\_ Date: \_\_\_\_\_

Issued Certificate Number: \_\_\_\_\_ Date: \_\_\_\_\_

OR

Issued Endorsement Number: \_\_\_\_\_ Date: \_\_\_\_\_

Send Completed Application to: KFTHNC  
 Joseph J. Bevier  
 Joseph J. Bevier

This Award produced with NTHG Club Logger [www.alpinesoft.com](http://www.alpinesoft.com)

And finally, there has been a lot of good information provided on our weekly “Meet up” zoom session on Wednesdays.



These past couple of months, the reflectors and AIM have been buzzing about the new features Dean, KL7OR is adding to the CCLogger. See Dean's continuing series of articles explaining the new features. Buddy, W3BS has been doing some beta testing for Dean and was kind enough to share his first impressions with the Centurion and its readers.

## SCANNING QSL CARDS FIRST IMPRESSIONS

Submitted by Buddy Spiegel, W3BS

**T**his article applies to scanning QSL cards, and linking the images scanned to QSL records in the CCLogger program, a program written and maintained by [Dean Davis, KL7OR](#) our club president.

Why would a 3905 Century Club member want to scan his/her QSL cards? For the purposes of this article let us assume that the CCLogger program is used to store all of the QSL information, such as: callsign, date, band, mode, your location, the other station's location, etc. Think about what you go through when filing for a club award. First, you check CCLogger to see if you have the requisite cards recorded. Second, you go searching for the cards so that you are able to send either the cards or scanned images of the cards to your award manager. Up until recently I have been using my printer/scanner/fax machine to scan 4 cards at a time, and send the file created to my award manager. What happens when the CCLogger tells you that you have a specific card, but you cannot seem to find it in the: stack, shoebox, file drawer, etc. You might also find that you have a QSL card which has not been recorded in CCLogger.



I have two IKEA six drawer file cabinets, the drawers are slightly wider than the widest QSL card you would receive. One set is for 40M SSB, the other is for 75M SSB. The cards for all other nets are in #10 envelopes, banded, and stored in a plastic container. I have approximately 10,000 cards evenly divided between 40m SSB and 75M SSB. Approximately 50% of my total contacts represent contacts made /M and /P when driving around the country operating from all the state capitals. That is a lot of cards which are not easily available for award application purposes. Within band/mode the cards are primarily sorted by state, and secondarily by suffix. Recently I wanted to apply for WAS YL, and first used CCLogger to locate candidates, I was missing a lot of states. I let my fingers do the walking and manually looked through all the states I needed, for YL cards.

What if all the club contacts were recorded in CCLogger, and an image of the QSL card for each contact was “married” to the QSO record. That would be ideal. My friends,

that is now possible. While any scanner (printer scanner, flatbed scanner, etc.) capable of scanning a QSL card would work, I am using an EPSON ES-580W scanner (hence referred to by 580W). It connects to my PC by either WIFI, and/or a USB connection. For those of you who have scanned cards to send to your award manager, aren't those two-sided cards a royal pain to handle. The 580W scans both sides simultaneously, and appear as consecutive images in a file folder. So, you could scan your cards, view the images, and give the image a file name useful for club purposes. Something like W3BS\_20230309\_40M\_SSB\_1.JPG. The final number in the filename could handle multiple contacts on the same band, same mode, same day – like 40M early and then 40M late. I cannot imagine viewing every image, and changing the filename for each one. Fortunately, we do not have to go through that laborious process.

OK folks, here comes the drum roll, kudos to, or a Bravo Zulu award ----- our club President, [Dean Davis KL7OR](#), who is also the author of the CCLogger program has included new functionality in CCLogger which is soon to be released which makes it easy peasy to marry the card images produced by a scanner like the 580W to the QSL records in CCLogger. I have been using a preliminary copy of this CCLogger for awhile, and reporting to Dean when I have a question or a suggestion. In just a few days, an hour or so each day, I have completed processing for 20% of the 40M SSB collection of cards, in alphabetic order by postal abbreviation AK through IL. I describe the detail process I have been using below.

I strongly urge, I STRONGLY URGE, that you scan manageable chunks of cards. I scan approximately  $\frac{1}{2}$  to  $\frac{3}{4}$  inch at a time, which equates to 30 cards of post card stock. There are, in my case, four steps: SCAN, MARRY, ENTER/CONVERT, RESCAN, REMARRY.

**SCAN:** Scan approximately 30 cards at a time, each batch takes just a few seconds to scan. The scanner stores the images in a new directory within the CCLogger directory structure on your PC. When you load the scanner, you then click on an Epson created icon, and the scan process starts immediately.

**MARRY:** A click of an icon near the top of the CCLogger main screen brings up a new window containing the images scanned, two at a time, You select the band/mode, and enter the callsign on the record displayed. If you see the record which matches the card, you either click on saving one or both images displayed. Many net participants have great pictures on the front of their cards, and all the data on the back. If you do not have a record which matches the pic, you select to either hold the first, or both images. These images are placed in a new directory within CCLogger. After making your "use" or "hold" selection, the next cards are displayed. The callsign just used can be repeated by clicking "Repeat" on the new Catalog screen, or clicking F6. Repeat this procedure until all images have been processed. If in this process you have cards with

no matching QSL records, see next step, ENTER/CONVERT. If all cards were matched, grab the next batch of cards, and SCAN.

**ENTER/CONVERT:** We got here because we encountered a card with no matching QSL record. In my case, the main reason for this is that the cards I received from my

ROADRUNNER trip were kept in batches according to the capital I was in, I never keyed them into CCLogger. In your case, a card or cards just slipped through the crack. For just a few cards, the data can be keyed directly into CCLogger by adding a new record, or by cloning an existing record and making the necessary changes. In my case, on average 1/2 of every batch requires data entry. I do not like data entry, so I developed an EXCEL spreadsheet to help. Each record entered requires callsign, date, time, Band, and mode, at a very minimum. Date is in the format mm/dd/yyyy, and time is in the format 01:02. The EXCEL spreadsheet eliminates the need for the entry of the special characters, there are three fields for date, and two fields for time – you only enter numbers. Along with the CCLogger program, there is a LogConvert program which Dean includes in the distribution of CCLogger. Amongst other options, the LogConvert program accepts ADIF files (NetLogger export for example), and EXCEL XLS files – it then massages the data (converting 80M to 75M for example) and updates the CCLogger database. If you want a copy of the EXCEL spreadsheet, send me an email with the request to [BUDDYS70@GMAIL.COM](mailto:BUDDYS70@GMAIL.COM), putting EXCEL REQUEST in the subject line.

**RESCAN:** At this point you could copy the images “held” from the “holding” folder to the “scanned” folder, or rescan the cards just entered. I find the rescan easier and quicker.

**REMARRY:** See the MARRY paragraph. If all cards were matched, grab the next batch of cards, and SCAN. Another round of ENTRY/CONVERT might be required if you made an error in data entry. Or, maybe just a tweak of the QSL record might be just as effective.

73,

Buddy W3BS



Screen Capture of Marry Operation

# Enjoying Ham Radio

## HOA Free At Last!

BY DAVID JOHNSON, WA4NID



I have really been enjoying ham radio for the last six years after moving to Graham NC in 2017. Before that was a ten-year "ham hiatus" as I lived in a house with restrictive covenants (evil HOA). So in 2017 my new friend Donnie, [KG4ZOD](#), got me interested in the Century Club and I've so far earned 15 awards, most of which count toward the Master. This is a great pursuit, a very interesting way to learn about radio propagation, and do so in the midst of some great people.

I first got my novice ticket in 1975 ([WN4NID](#)), and upgraded gradually (in steps) to Extra by about ten years later. Prior to 2007 I had pursued a lot of ham radio goals, although intermittently. Sometimes career (biologist) and family (wonderful Chinese wife and one son) kept me too busy for radio. For a time I was involved with traffic handling, emergency and community support communications, building antennas and lots of kits (mainly transceivers) and some homebrew projects. One of my main ham radio obsessions has been QRP (low power operation).

I thought I would share with you two little stories. First, I had a reminiscence of late when I looked at a computer screen shot I made on July 4, 2022. That day I worked Russia on 5 watts by ft8 digital mode. Looking at the screenshot, I saw the DX contact was followed by a second contact less than ten minutes later, with [K9DBB](#). Hey wait, that is a familiar callsign! That's Debbie, a net control for the Century Club! Thanks Debbie for the QSO and for making it into my keepsake screenshot! I was also using 5 watts for the contact to Tennessee.

144600	-14	0.1	624	~	KA0BAT XE2J RRR	
144615	-9	0.1	685	~	CQ NA R210A LP04	EU
144634	Tx		685	~	R210A WA4NID FM06	
144638	Tx		740	~	R210A WA4NID FM06	
144645	-8	0.2	685	~	CQ NA R210A LP04	EU
144700	Tx		740	~	R210A WA4NID FM06	
144715	-8	0.2	685	~	KG1U R210A -12	
144730	Tx		740	~	R210A WA4NID FM06	
144745	-10	0.1	685	~	KG1U R210A -17	
144800	Tx		740	~	R210A WA4NID FM06	
144815	-14	0.2	685	~	KG1U R210A RR73	
144830	Tx		740	~	R210A WA4NID FM06	
144900	Tx		740	~	R210A WA4NID FM06	
144915	-14	0.1	685	~	KG1U R210A RR73	
144930	Tx		740	~	R210A WA4NID FM06	
144945	-14	0.2	685	~	KG1U R210A RR73	
145000	Tx		740	~	R210A WA4NID FM06	
145015	-13	0.2	685	~	WA4NID R210A -15	
145030	Tx		740	~	R210A WA4NID R-13	
145045	-13	0.1	685	~	WA4NID R210A RR73	
145100	Tx		740	~	R210A WA4NID 73	
145115	-16	0.2	685	~	CQ NA R210A LP04	EU
145145	-15	0.2	685	~	CQ NA R210A LP04	EU
145215	-18	0.2	685	~	WA0NUJ R210A -06	
145745	-8	0.2	684	~	K2I AF5FB EM22	
145815	-13	0.2	685	~	K2I AF5FB EM22	
150015	-7	0.1	626	~	CQ K9DBB EM55	NA
150040	Tx		626	~	K9DBB WA4NID FM06	
150045	-6	0.1	626	~	CQ K9DBB EM55	NA
150100	Tx		564	~	K9DBB WA4NID FM06	
150115	-9	0.1	626	~	WA4NID K9DBB -09	
150130	Tx		564	~	K9DBB WA4NID R-09	
150145	-8	0.1	626	~	WA4NID K9DBB RR73	
150200	Tx		564	~	K9DBB WA4NID 73	
150215	-12	0.1	626	~	CQ K9DBB EM55	NA
150230	-16	0.2	626	~	CQ K9DBB EM55	NA



My second story is another one involving low power. In October 2022 I decided that 5 watts working the world is a little too easy (I had already worked over 100 DX entities using 5 watts). I was inspired by a brief letter in QST that described a quest. Your quest can be whatever you want, you get to define it. I think the author worked hams using a hundred different radios! I decided to start a quest to work 100 DX entities using only a HALF watt. This is my HALF watt quest. I'm mainly using ft8. Things went really fast in the first 3 months or so, when I worked over 40, but now I am up to 52 (EU Russia). It seems there is LOTS of DX due to the great ascending solar cycle. When I work to make contacts now using a HALF watt, seems much of the DX are places I have already worked! So I must keep persevering, keep working! I think this lesson is valid for pursuing any worthy goal in life, like earning the Century Club awards. Most worthy goals in life require some extended work and overcoming challenges. Keep at it, and the goal can be reached. Keep having fun with RF!

73,  
Dave WA4NID

P.S. - while I love my solo QRP pursuits, I do usually run 94 watts or more on Century Club nets, especially when I am a net control. I just feel it's important to be heard in this community type of event - though I welcome hearing QRP stations on our nets!

# AND MORE PARKS!!

By Mike Rush, KU1V

February 27, 2023

**A**n early start from Terlingua, TX. Now heading for the Carlsbad Caverns near White City NM. Driving north on routes 118 / 67/ 285 / 720 / 62 to the entrance of Carlsbad Caverns NP. I passed thru Alpine TX., the college town for Sul Ross State University, which is an active community with lots of businesses. One such business, The Cheshire Cat Antiques. I always enjoyed these old-style western antique shops as lots of hidden treasures, but regrettably I was too early to go inside, thus missed out again on another treasure. The wrought iron fence is claimed to have been originally around the courthouse in 1889.



Cheshire Cat Antiques, Alpine TX [http://shootbigbend.com/?page\\_id=2919](http://shootbigbend.com/?page_id=2919)

The entrance to the Carlsbad Caverns NP is near White City, NM, however, the caverns entrance is about seven miles farther up the road at a much higher elevation. Prior to leaving White City and heading to the cavers entrance for evening Century Club Nets, I took a short tour of what remains of the Million Dollar Museum. As I understand, the bulk of the collection has been sold but a few items remain. Perhaps no one wanted these old-time bar stools.





<https://www.youtube.com/watch?v=3BQBI0G8CIU>



KU1V Carlsbad Caverns NP





Entrance and visitor center (backside) Carlsbad Caverns (KU1V will be operating in parking lot right side)



KU1V, operating Carlsbad Caverns NP

Leaving White City NM, I headed northerly to Carlsbad, NM, and then north to Artesia NM. With a westerly turn on routes 82 I am now heading to the White Sands NP. Routes 82 passes through the Lincoln National Forest and the town of Cloudcroft, which is near 9,000 feet above sea level. Cloudcroft is a great recreational area for both summer and winter activities. It is a big change to drop off the mountains and into the Alamogordo Valley, now considered high desert, and the town of Alamogordo,

NM. There is a great aviation / space museum here if you have the time. Now for a short drive to the White Sands NP.

<https://www.newmexico.org/places-to-visit/regions/southeast/cloudcroft/>

<https://www.nmspacemuseum.org/>





**KU1V, Operating White Sand NP – No shortage of white sand!!** [https://  
www.nps.gov/whsa/index.htm](https://www.nps.gov/whsa/index.htm)

**Leaving White Sands NP, after Century Club Nets, I followed routes 70 / I-25 / I-10 to a rest stop near the AZ/NM boarder for some ZZZs, then onward toward Tucson, AZ, and the Saguaro NP.**

**But first, a side trip south of Tucson, to Green Valley AZ and the Titan II Missile Silo along with, perhaps, the largest discone antenna ever built – and it still is operational – see you there.**

**Best 73 Mike KU1V**



# KL7JR 2023 Road Trip: Back to Alaska, Pt 3 of 3

**It's all about Alaska: Kenai Fjords National Park, Seward, Anchorage, Denali National Park, Wrangell St. Elias National Park and Glacier Bay National Park.**

**A**fter a hearty bacon, eggs and hashbrowns breakfast from our Glennallen camp, cooked by yours truly, we set out for Anchorage for an RV park that was advertised as open. It wasn't. Then we went to another park but that was a total dump. They were the only two RV parks that were advertised as open this early in the season. Plan B now is to head for Seward and activate Kenai Fjords National Park using [VA3TUV/p KL7](#), then spend a couple days in Anchorage as [KL7RST](#) fixed. Both are new calls for 3905 CCN!



## Kenai Fjords National Park

From Miller's Landing, a rustic RV camp overlooking the Gulf of Alaska within Kenai Fjords National Park, I checked into the 40m late net hosted by [W9WWG](#) per [KL7OR](#) relay. Conditions were fair with heavy QSB. [N0PUI](#) (again 1<sup>st</sup> in my log!), [KL7OR](#), [KU1V](#), [WA4BKL](#), [W8JCS](#), [WY6N](#), [KM4P](#), [W6PNY](#), [AI4K](#), [K9DBB](#), [KD8IJ](#), [W9WWG](#), [AC2MT](#), [N7HRR](#), [KE7RG](#) and [K7QHU](#) all found a spot in my log! The band went

long after 45 minutes and S9 QRN set in. I was glad to finally work Robin [KE7RG](#) who had been chasing me all trip.

75m late net was very strange with low signals but zero noise. I worked: [N0PUI](#), [AC2MT](#), [K9DBB](#), [AI4K](#), [KL7OR](#) and [KU1V](#). Dave was louder than Debbie tonight. Meanwhile at high tide, Mother Nature unleashed her fury all night and through the next day. Low temperatures and high winds kept my electric heaters busy. Tonight we'll see how it goes using [VE6YPY/KL7](#).



**Sense of Humor Alaska Style...expired at that!**

The 40m late net, [NCS KL7OR](#), was once again rough to make contacts, but with perseverance the following made it through the QRN I was experiencing up here: [N0PUI](#), [K5GEB](#), [KF7HNC](#), [W2RCH](#), [KL7OR](#), [K9DBB](#), [AI4K](#) and [WU2T](#). Thanks for hanging in there

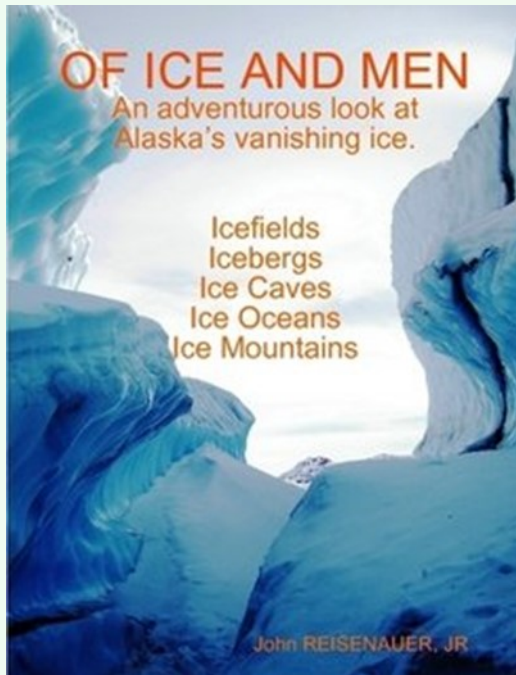
to add the frosting on the cake on our last night here. 75m late net, hosted by [W9WWG](#), was not meant to be. I just had too much QRN, and the northern lights weren't even out!

My sister Carol enjoying the up closeness to many different types of wildlife housed at the center in Seward. This is definitely a must see thing when in Seward. Here trained technicians care for injured or orphaned wildlife and prepare them to be introduced back into the wilds of Alaska. We saw many species of birds and fish, a couple huge sea lions and otters and dolphins.

Another one of my other favorite camping and DXing spots in Alaska is Exit Glacier in Kenai Fjords National Park near Seward. The glacier is very accessible (except winter) thanks to a black top path that takes you up close to the ice. Years ago, I snowshoed all around the ice giant that cascades down from Harding



Icefield. I took a million pictures too. It is truly an awesome picturesque sight! Yes, I even wrote a book on Alaska's vanishing ice- *OF ICE and MEN* which highlighted some of my glacier adventuring with Amateur Radio before "global warming" was commonly heard.



Even in this fast-paced unsettling world, complete with "global warming", man's quest to unlock the mysteries of the ice continues today. Alaska is on the front lines of global warming, having experienced a rise in average winter temperatures (2015) of 5-7 degrees Fahrenheit in just the last 60 years! *OF ICE AND MEN* is an adventurous journey of experiencing some of Alaska's shrinking glaciers up close. Glaciers, small or huge moving rivers of ice, are part of or included in; icefields, ice mountains, icebergs, ice caves and ice oceans. The treasures that lie buried in the ice continue to mystify man.

Unfortunately Exit Glacier was not accessible this early in the season. The last 2 miles of the road were not plowed. In previous years it was open for my jaunts "down here". It seems like I'm forever revising my plans "up here", hi hi!

["Up here" is a common Alaskan term for Alaska]







We traded the blue ice glacier for the blue water of the Gulf of Alaska. It is truly breathtaking scenery here especially experiencing the change of the tides and spectacular sunsets.

From within Icemobile IV, with EFHW sloper mounted on rear hitch, we enjoyed a spectacular view of the Gulf of Alaska.



The next day found us back in Anchorage. I just had to use [KL7RST fixed](#), new for CCN. Many NCDXAers have used the call here before in our yearly events.

40m late net, hosted by K4JEL on April 20<sup>th</sup>, was S5 noise and weak signals. Those making my log included: N0PUI, AC2MT, KL7OR, K5GEB, K9DBB, N1ABY, AI4K, KF7HNC, W2RCH and K4JEL. 75m late net, NCS KL7OR, was even worse netting me only KL7OR and KD7QBB. Tomorrow I'll get the oil changed in Icemobile IV then we'll re-provision and head for Denali National Park some 300 miles north of Anchorage.



**Downtown Anchorage from across Cook Inlet in Earthquake Park**

This is the most photographed view in Anchorage followed by Bullwinkle's girlfriends!







**Early morning barge traffic in the Gulf of Alaska in Kenai Fjords National Park.**



I cannot over emphasize just how flexible these EFHW antennas are. You can bend them so much that it looks like it should never work, but they do! Here my wire takes a 90 degree bend and slopes up and down from the 49:1 balun to the end point. I didn't have much room because of the snow bank so did what I could. A zip tie held the wire to a tree limb stuck in the crusty snow pile.

I've had several different brands of EFHW but have found the ones with the 9:1 balun more easily suited for multi-band quarter-wave

use. I usually go vertical for 20 to 25 feet then end as a sloper which fits most camp sites. I will say at 130 feet long, my EFHW with a 49:1 balun needs no tuner on 75 or 40m when a counterpoise is used. I put out 3 or 4. You can't beat a tuner less aerial.





**KL7JR/KL7**

Mobile ☒ Portable

Confirming 1 NP:  
 Denali ☐  
 Glacier Bay ☐  
 Kenai Fjords ☒  
 Wrangell-St. Elias ☐

**CONFIRMING NP:**

CONFIRMING QSO WITH		DAY	MONTH	YEAR
K9DDB		18	Apr	2023
UTC	MHz	RST		2-WAY
0417	7.182	22 22		SSB

**KL7JR/ K8J N2P**

☒ /KL7 ☐

Mob / Port. Locn: AK

Kenai Fjords NP

Early ☐ Late ☒

**CONFIRMING QSO WITH**

DAY		MONTH	YEAR
18		Apr	2023
UTC	MHz	RST	
0439	7.182	22 22	
		2-WAY	
		SSB	

KL7JR 100pt #: 20m #90, 40m #3044, 75m #2512 & 160m #664

**KL7JR/KL7**

Mobile ☒ Portable

Confirming 1 NP:  
 Denali ☐  
 Glacier Bay ☐  
 Kenai Fjords ☒  
 Wrangell-St. Elias ☐

**CONFIRMING NP:**

CONFIRMING QSO WITH		DAY	MONTH	YEAR
AC2MT		18	Apr	2023
UTC	MHz	RST		2-WAY
0509	3.909	22 22		SSB

## Getting closer!



## Denali National Park in central Alaska.

It was midnight (EST) on April 21 when we stopped at the park entrance and shot a few pictures. Next we drove 5 minutes down Denali Park Highway to find CLOSED signs all over. In 2018 when I was here last the RV park was open year around. The park town



was a ghost town as well. No problem we'll camp along the highway in the park.

Within 100 miles of the park it was 54 degrees F, the warmest it's been the whole trip. Overnight it got down to 10 degrees....brrr! I was out in a t-shirt in the mid afternoon as the temp had to be at least 60 and the bright sun had snow melting all over.





Postcard scenery unfolding on the Denali Highway some 100 miles south of Denali National Park. This is the south end of Mt. McKinley (Denali NP).

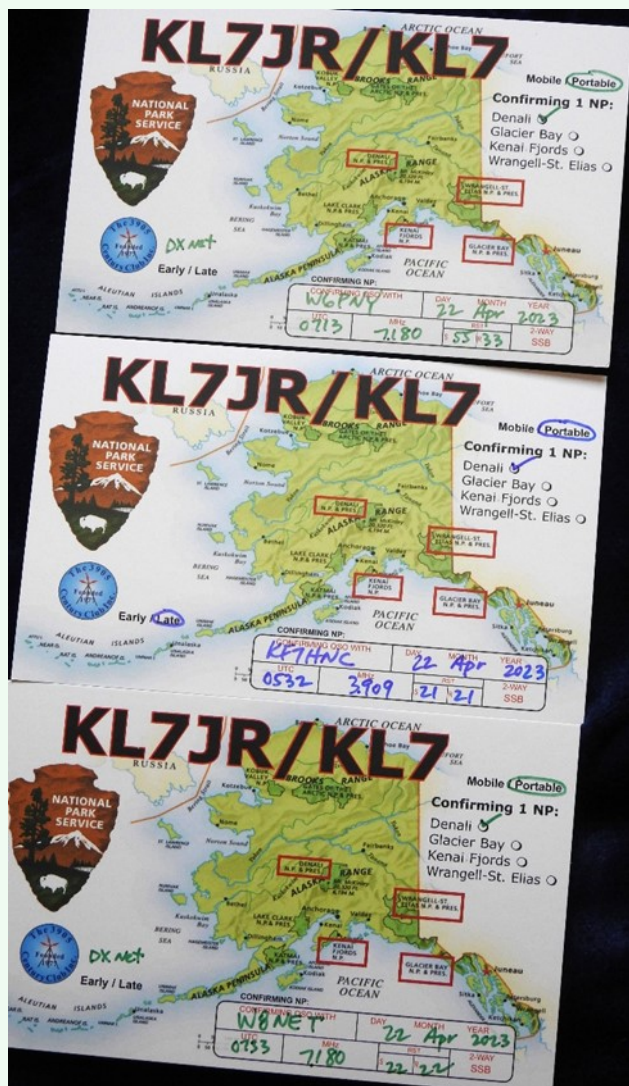
KL7JR/p KL7 and K8ICE/p KL7 tried to check into the 40m late net on April 22. NCS was KI7PM, conditions were beyond poor as no one was heard. KL7OR not heard which meant my relay was gone.

75m late net was pretty much the same until about a half hour into the net when KL7OR relayed me in. I worked, under very tough conditions, KL7OR, KR0DS/p OR, AI4K, K9DBB and KF7HNC. I was glad we got through. I had no noise up here and not many signals.

40m DX net was red hot compared to the other two nets this morning. Contacts were much easier to make with stronger signals, netting me: AC2MT, AA0HF/p WA, W6PNY, KL7OR, KR0DS/p OR, K9DBB, AI4K, K4JEL, W3BS, N2KED and W8NET! Thanks KL7OR for all the “roger contacts”.







## Wrangell-St. Elias National Park, Alaska

Wrangell-St. Elias National Park & Preserve is one of the National Park Service sites that does NOT charge an entrance fee. There is no entry gate to enter the park on either of the two park roads, Nabesna Road (in the north) and McCarthy Road (in the center).

You must see Wrangell-St. Elias National Park and Preserve to believe it. Number and scale loom large here, magnified by splendid isolation. The largest U.S. national park, it equals six Yellowstone's, with peaks upon peaks and glaciers after glaciers. Follow any you will find either a receding, advancing, or tidewater glacier. The park lets you sample representative Alaska wildlife as well as historic mining sites. Witness living geology. You sense discovery, the feeling you might be the first to see such sights. [I got a chuckle out that when I hiked back, over and down ice caves about 5 miles to Matanuska Glacier back in 1991 only to find a discarded Coke can protruding through the ice!]



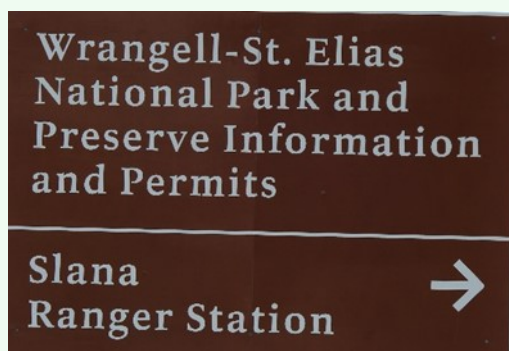
We broke camp at Denali about 4 hours after the 40m DX net. I went mobile some 100 miles south of the park to check into the 20m SSB Saturday net. Total disappointment again as 20m was all beeps and pops. We experienced snow, sleet and rain for a good hundred miles as we neared Glennallen, our final fuel and propane stop enroute to Wrangell-St. Elias National Park.

40m Late net, hosted by [KL7OR](#), was absolutely the worst conditions for me so far. Signals were almost non-existent laced with heavy QRN/QSB. I did manage to work [KL7OR](#) and [KR0DS/p OR](#) using [KL7JR/m AK](#) and [KL7CCN/m AK](#).

75m late net was a repeat performance of the 40m late net. My only contact was again [KL7OR](#). We traded 2x2 reports. By now another mini-blizzard accompanied by howling winds rocked Icemobile IV as I swapped out verticals.

75m DX net, hosted by [KB0EL](#), was another repeat performance of only a few weak signals heard. [AA0HF/p WA](#) and [K5GEB](#) were worked. I went QRT disappointed and exhausted. Six hours later I awoke to find about 2 inches of freshly fallen snow. The temperature was just above zero. I cranked up the generator to warm us up and the coffee pot!

Hours later, the 20m SSB Sunday net was again extremely poor conditions up here. No one heard.



{Trip temps ranged from 9 below zero at Denali to 64 above in BC enroute home.}





## HAARP Facility near Wrangell-St. Elias National Park

### Glacier Bay NP, Alaska

Without WiFi and cell service, I was dead in the water and just about ready to give up when I heard K9DBB make a call on 7.185 MHz. I was searching for 25 minutes before I stumbled upon Debbie's melodious voice. KL7JR/p AK and VE8AU/p AK worked the following: KL7OR, KR0DS/p OR, K9DBB, AI4K, N0PUI and K4JEL before the band dropped out. I then QSY'd to 3.909 MHz in hopes of finding the net. No such luck. The weather was cold and freezing rain on and off all day on our travel to Haines, Alaska, 125 miles south of Haines Junction, Yukon. I hit the bed and slept like a baby, hi hi!

**“...Yukon, you're on an epic adventure that will go down in the annals of Amateur Radio history...” (Mike KU1V)**





**Kluane National Park Visitor Center on Kluane Lake near Destruction Bay, Yukon**



Goodbye Yukon...I'll be back!

# Alaska National Parks activated by KL7JR/KL7

Kluane National Park, Yukon is located near Klondike Gold Rush.

## Fort Liard, Northwest Territories

On April 26<sup>th</sup> we set out for the small village of Fort Liard just because VE8 land was only about 100 miles north of the Alaska Highway as we headed south for home. Calls used were [KL7JR/m VE8](#) and [VE8RST/m VE8](#). From our camp in Watson Lake (Yukon) we set out on the bumpy Alaska Highway in the British Columbia. We immediately started seeing Wood Bison, Caribou, Mountain Goats and elk many of which will be included in the video Sammy is producing. I was pumped now seeing the road signs for the Northwest Territories.





**Wood Bison grazing along the Alaska Highway in British Columbia**



**A Mountain Goat was kind enough to pose for me!**



The 40m late net, **K4JEL NCS**, on April 27 was horrible up here. I was called by **N0PUI** and **KL7OR** and went back to both but only **N0PUI** heard me. **KL7OR** checked me in on a relay and the band went south shortly afterwards for me. I swapped out antennas and tried the 75m net directed by **KL7OR**. Nothing was heard over my S5 QRN. Oh well, it was not meant to be I guess.

**Goodbye my old friend  
Northwest Territories. On  
many past radio trips you  
were always good to me.**



**Another exciting radio trip up north is history. Thanks for  
all 2,398 contacts made on the trip!**



## *KL7JR 2023 Alaska Trip Stats*

-Duration/Contacts made: 45 days out and 2,398 contacts

-Miles driven: 12,776

-Prefixes Activated: W5-W7, VE7, KL7, VY1 & VE8

-National Parks activated: Gateway Arch, Grand Canyon, Death Valley, Sequoia, Kings Canyon, Kluane, Kenai Fjords, Denali, Wrangell-St. Elias and Glacier Bay.

-States activated: MO, AZ, CO, NM, UT, CA and AK

*An epic journey North has again unfolded for me. An Amateur Radio adventure most hams only dream of. I am fortunate to experience Alaska and the Yukon once again!*  
*73 de Yukon John KL7JR*



**On his trip to Alaska, John KL7JR, drove by the HAARP Facility near Wrangell-St. Elias National Park. John provides more information about the facility:**

## **HAARP Gakona, AK near Wrangell-St. Elias National Park**

The main instrument at HAARP is the Ionospheric Research Instrument (IRI). This is a high-power, high-frequency phased array radio transmitter with a set of 180 antennas, disposed in an array of 12×15 units that occupy a rectangle of about 30–40 acres. The IRI is used to temporarily energize a small portion of the ionosphere. The study of these disturbed volumes yields important information for understanding natural ionospheric processes.

During active ionospheric research, the signal generated by the transmitter system is delivered to



the antenna array and transmitted in an upward direction. At an altitude between 70 to 350 km (43 to 217 mi) (depending on operating frequency), the signal is partially absorbed in a small volume several tens of kilometers in diameter and a few meters thick over the IRI. The intensity of the HF signal in the ionosphere is less than  $3 \mu\text{W}/\text{cm}^2$ , tens of thousands of times less than the Sun's nat-

ural electromagnetic radiation reaching the earth and hundreds of times less than even the normal random variations in intensity of the Sun's natural ultraviolet (UV) energy which creates the ionosphere. The small effects that are produced can be observed with the sensitive scientific instruments installed at the HAARP facility. These observations can provide information about the dynamics of plasmas and insight into the processes of solar-terrestrial interactions.

Each antenna element consists of a crossed dipole that can be polarized for linear, ordinary mode (O-mode), or extraordinary mode (X-mode) transmission and reception. Each part of the two section crossed dipoles is individually fed from a specially

designed, custom-built transmitter that operates at very low distortion levels. The effective radiated power (ERP) of the IRI is limited by more than a factor of 10 at its lower operating frequencies. Much of this is due to higher antenna losses and a less efficient antenna pattern.

The IRI can transmit between 2.7 and 10 MHz, a frequency range that lies above the AM radio broadcast band and well below Citizens' Band frequency allocations. HAARP is licensed to transmit only in certain segments of this frequency range. When the IRI is transmitting, the bandwidth of the transmitted signal is 100 kHz or less. The IRI can transmit in continuous waves (CW) or in pulses as short as 10 microseconds ( $\mu$ s). CW transmission is generally used for ionospheric modification, while transmission in short pulses frequently repeated is used as a radar system. Researchers can run experiments that use both modes of transmission, first modifying the ionosphere for a pre-determined amount of time, then measuring the decay of modification effects with pulsed transmissions.



The facility is powered by a set of five 2500 kilowatt generators being driven by EMD 20-645-E4 diesel locomotive engines.

The project site (62°23'30"N 145°09'03"W) is north of Gakona, Alaska just west of Wrangell-Saint Elias National Park. An environmental impact statement led to permission for an array of up to 180 antennas to be erected. HAARP was constructed at the previous site of an over-the-horizon radar (OTH) installation. A large structure, built to house the OTH now houses the HAARP control room, kitchen and offices. Several other small structures house various instruments. (KL7JR photos April 2023)

## July 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, July 8, 2023**

Did you know that videos of all Board Meetings are posted on the Club's YouTube channel? Courtesy of the Board and produced by Sammy KB1XP, you can view them at: [\(11\) 3905 Century Club - YouTube](#)



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

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## Road Trips!

**No Road Trips have been submitted to the Centurion for July.**

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## 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](mailto: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](mailto: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 June 2023

Did you know we had **589 unique U.S. Stations** that checked into our nets during the month of June, 2023. Check to see if you made the list!

AA0HF	K2AES	K8WEE	KC5AGO	KE8RYW	KJ5BEG	KQ4EBU	N5ZHB	W3NH	WA4NID	
AA0ZP	K2GQ	K8ZRH	KC5PLZ	KE8URV	KJ6EEP	KQ4EON	N6TCO	W3RKI	WA5IEK	
AA1AL	K2LOR	K9DBB	KC5SDX	KE8UWD	KJ6MS	KQ4FEG	N6VNI	W4AWM	WA5YNE	
AA1NA	K2NTH	K9GWS	KC5THR	KE8VOP	KJ7OWB	KQ4FPS	N7EKB	W4BWJ	WA6IMS	
AA1NZ	K2SFS	K9HIM	KC6YBV	KE8VZH	KJ7RVB	KQ4GBE	N7HRI	W4CBH	WA6LBU	
AA1PB	K2TRD	K9K	KC8DEL	KE8WAV	KK0SS	KQ4GMY	N7HRR	W4CPO	WA6USL	
AA1QW	K2YS	K9LR	KC9LFD	KE8YMB	KK2M	KQ4HMT	N7YES	W4ERL	WA7WQV	
AA3AS	K3DPP	K9QEW	KC9TAU	KE8YQN	KK4ASA	KQ4INU	N8BRO	W4FAL	WA8ALQ	
AA3JF	K3LUE	K9WAE	KC9VUQ	KE9FID	KK4LLS	KQ4IQB	N8EWX	W4JPS	WA9AQQ	
AA3WD	K3MLB	KA0SOH	KC9YY	KF0BFU	KK5E	KS3N	N8HHG	W4MA	WA9DIY	
AA4HI	K3ROD	KA1FLH	KC9ZVZ	KF0GUS	KK7BWQ	KS9WI	N8ZZF	W4MUF	WB0CSF	
AA4WL	K3RRP	KA2YDS	KD0GIX	KF0IBT	KK7DEU	KT4AS	N9BFI	W4OTS	WB1LOV	
AA4YA	K3UHU	KA3UFV	KD0QIX	KF0LGL	KK7ELZ	KU1V	N9FKS	W4RRJ	WB2AFC	
AA5AC	K3ZZZ	KA4CZL	KD0SRD	KF0MPG	KK7FJX	KV0H	N9GIX	W4SPB	WB2BWS	
AA5JE	K4BMW	KA5LYL	KD0VHD	KF4DMC	KK7FYT	KV8U	N9IZQ	W4UIT	WB4EQJ	
AA9TC	K4CIW	KA5PXE	KD1KE	KF4TIM	KL7JR	KW5DRE	NC8F	W4VLL	WB6QEX	
AB3VK	K4EGL	KA9E	KD2AMZ	KF4TPY	KL7OR	KY1KY	NC8I	W4YDL	WC4J	
AB3VZ	K4FIO	KB0EL	KD2DPP	KF4ZKU	KL7RST	KY4FF	NC8N	W4ZDP	WD0DMO	
AB5SJ	K4GCD	KB0FWP	KD2EOY	KF5FWR	KM4AVB	KY4KSP	NF0J	W4ZGH	WD4CPF	
AB8VX	K4GVH	KB0QIX	KD2HCE	KF5GTX	KM4BLG	N0KRO	NF0T	W4ZWW	WD4ERM	
AB8YZ	K4HZF	KB1RRR	KD2MZO	KF5MRO	KM4P	N0PF	NH7DX	W5GFM	WE4FUN	
AC1OC	K4ISG	KB1XP	KD2PEZ	KF7HNC	KM4RGL	N0PUI	NI0A	W5HWZ	WE4GUN	
AC2MT	K4JEL	KB2ENF	KD2THF	KF9K	KM6NQX	N0PYN	NR4JB	W5JAM	WE5B	
AC7DW	K4JNG	KB2JZJ	KD2TZX	KG2BAD	KM7AFF	N0RWJ	NS9T	W5NA	WF4H	
AC9PA	K4JUJ	KB2NER	KD2VBH	KG2RG	KM9U	N0TXW	NT4OM	W5RDY	WF4ROG	
AD4GH	K4KHO	KB2TVR	KD2WXA	KG4JZU	KN4CQB	N1ABY	NV5I	W5STR	WG0I	
AD5XD	K4KRK	KB3OOH	KD3Y	KG4RDE	KN4LGM	N1BAT	NW3Y	W5SWA	WH6GVN	
AD9RR	K4KSW	KB3VPK	KD4ACG	KG4YHR	KN4TYV	N1CFB	NX3W	W5UOT	WI9CE	
AE0OG	K4LO	KB3W	KD4DTR	KG4ZOD	KN4WNX	N1JWS	NZ0P	W5WJN	WK1J	
AE0QG	K4MBD	KB3WAH	KD4GUB	KG5GCX	KN6GLC	N1KPW	VE8RST	W6BBB	WK4B	
AE4NT	K4MXI	KB4HAM	KD5EFB	KG5HFL	KN6JDX	N1YAO	VY0RST	W6CVA	WN0P	
AE5OV	K4NLS	KB8UEY	KD6GIK	KG5YMI	KN6JOX	N2IGW	VY1RST	W6PNY	WN1F	
AE5PP	K4NTS	KB8UGP	KD7ISF	KG8WL	KN6UDK	N2KED	W0BTS	W6SFG	WN8SCI	
AE7BM	K4PVK	KB9BSK	KD7SXH	KG9HY	KN6UNL	N2LFD	W0CBS	W7EMI	WO1J	
AE7JE	K4TER	KB9EWG	KD8HER	KH6KW	KO4CBI	N2XTT	W0DCB	W7LN	WQ4X	
AF5DT	K4VSK	KB9JDM	KD8RQY	KH6OWT	KO4FH	N2YBX	W0DZW	W7PAU	WQ7V	
AF5P	K4WAX	KB9LXM	KD8TF	KI0Y	KO4FQY	N3JPP	W0QI	W7PML	WQ9S	
AF6MV	K5AVL	KB9MOZ	KD9PCN	KI4FSZ	KO4GRC	N3MH	W0ZWY	W7SCD	WQ9V	
AF8GO	K5BMR	KB9OGS	KD9PXZ	KI4KGK	KO4HEF	N3VET	W0ZZM	W8BI	WR3V	
AG4ED	K5GEB	KB9WAA	KD9VXC	KI4PNK	KO4HJW	N4BNO	W1ABC	W8CWM	WT3B	
AG5T	K5KTD	KC0RZA	KE0MC	KI4QMB	KO4LEM	N4BWW	W1GBA	W8DDS	WU2T	
AG5Z	K5NBA	KC0UTN	KE1AF	KI4WCQ	KO4MEX	N4CVT	W1IP	W8JCS	WV7MS	
AI0ME	K5PAR	KC1ABY	KE1HD	KI5KZN	KO4OZK	N4POD	W1NLK	W8NET	WV8KJ	
AI4K	K5VG	KC1DBR	KE2BAM	KI5OLV	KO4QZY	N4WLC	W1OO	W8PDS	WX4KXT	
AI7RB	K5WEL	KC1ROC	KE3UY	KI5RQG	KO4SMP	N5BWC	W1PEF	W8TVO	WY0MNG	
AI8W	K6EXY	KC1SXV	KE4ASC	KI5SFP	KO4SOW	N5EJH	W1TM	W9BLI	WY6N	
AJ0D	K6ODI	KC1YL	KE4IFE	KI5SPA	KO4TRA	N5FKP	W1XMM	W9BUM	WZ8Q	
AJ0KE	K6YEK	KC2LXD	KE4JXF	KI5UPP	KO4VBL	N5IPU	W2ABC	W9KMH	WZ9O	
AK1SS	K7NHC	KC2MNQ	KE4LLW	KI5VHC	KO4WFO	N5KB	W2BZ	W9ROG	WZ9Y	
AK1VT	K7OPQ	KC2SDR	KE5KDO	KI5YOO	KO4WQO	N5KUC	W2CSI	W9VOP		
AL8Y	K7QHU	KC3FTQ	KE7GGP	KI5YVP	KO4YZI	N5MIG	W2FEC	W9WWG		
K0DVH	K7TSB	KC3HIL	KE7VHF	KI5ZND	KP2JR	N5OHL	W2JLD	WA0FIK		
K0HE	K7TSW	KC3KJ	KE8FK	KI7CFO	KP4RX	N5OUR	W2RCH	WA0O		
K00LG	K8DSD	KC3QLV	KE8GC	KI7KXP	KQ0EEE	N5RNR	W2TI	WA0ROH		
K1CCN	K8GIB	KC3SKP	KE8HBY	KI7PM	KQ0Q	N5RYH	W2WCM	WA1LNY		
K1NI	K8IWV	KC3TIU	KE8LGC	KJ4KKB	KQ4AKJ	N5UUA	W3BS	WA1TDH		
K1RKD	K8MSF	KC3UDZ	KE8ODN	KJ4OFD	KQ4AUZ	N5WGA	W3FNZ	WA2BTC		
K1RLP	K8NIV	KC3VWJ	KE8QFT	KJ4RM	KQ4BRG	N5XJT	W3LAM	WA2JIM		
K1TSW	K8RRF	KC4ABE	KE8QYY	KJ5ABG	KQ4CIA	N5XKG	W3LHD	WA2VQW		
K1XK	K8SSN	KC4YAO	KE8RRG	KJ5BBZ	KQ4CZA	N5XTH	W3MFB	WA4BKL		

Did you know we had 29 unique DX Stations that checked into our nets during the month of June, 2023. There were 16 Canadian DX stations and 11 Other DX stations. As for new stations, we had 289 unique new stations check into the nets in June.

### 18 CANADIAN DX STATIONS

### 11 OTHER DX STATIONS

VA2AFU	VE3KUZ		9Z4GKM	Trinidad	40m SSB DX				
VA3CRL	VE3LTN		HH2/AA1QW	Haiti	20m SSB				
VA3INV	VE3LTP		EA8DMF	Canary Is	20m SSB				
VA3TUV	VE3PZ		HP3EFS	Panama	40m SSB DX				
VA3YKT	VE3XFD		ON4KCP	Belgium	40m SSB L				
VE1AJ	VE3YWN		PJ4/W0JKT	Bonaire	75m SSB E				
VE2ACP	VE3ZSZ		PJ4/W0JKT	Bonaire	40m SSB L				
VE2KLW			PJ4/W0JKT	Bonaire	20m SSB				
VE3CMB			9A/W0JKT	Crotia	75m SSB L				
VE3HMK			9A/W0JKT	Crotia	40m SSB E				
VE3HWT			W0JKT/PR	Puerto Rico	40m SSB DX				

### 289 NEW STATIONS

AA3AS	K4NTS	KC1ABY	KE0MC	KI5SFP	KO4WFO	N5FKP	W3RKI	WD4CPF	
AA4HI	K4VSK	KC1ROC	KE1HD	KI5SPA	KO4WQO	N5RYH	W4AWM	WE5B	
AA4WL	K5AVL	KC1SXV	KE2BAM	KI5YOO	KO4YZI	N5XKG	W4ERL	WH6GVN	
AA4YA	K5BMR	KC2MNQ	KE4ASC	KI5YVP	KP4RX	N5ZHB	W4OTS	WK4B	
AA5AC	K5KTD	KC2SDR	KE4IFE	KI5ZND	KQ4AKJ	N7EKB	W4RRJ	WQ4X	
AA9TC	K5NBA	KC3FTQ	KE4JXF	KI7CFO	KQ4AUZ	N7YES	W4UIT	WQ9S	
AB3VZ	K7TSB	KC3JKJ	KE4LLW	KJ4KKB	KQ4BRG	N8EWX	W4VLL	WQ9V	
AB8VX	K8DSD	KC3SKP	KE5KDO	KJ5ABG	KQ4CZA	N8ZZF	W4YDL	WZ8Q	
AC9PA	K8IUV	KC3UDZ	KE7VHF	KJ5BBZ	KQ4EBU	N9GIX	W4ZWW	WZ9Y	
AE7BM	K8NIV	KC3VWJ	KE8FK	KJ5BEG	KQ4EON	N9IZQ	W5GFM		
AF5DT	K8RRF	KC4ABE	KE8ODN	KJ7OWB	KQ4FEG	NC8F	W5RDY		
AG4ED	K8WEE	KC4YAO	KE8QYY	KJ7RVB	KQ4FPS	NR4JB	W5STR		
AI0ME	K8ZRH	KC5AGO	KE8URV	KK4ASA	KQ4GBE	NS9T	W5SWA		
AI7RB	K9HIM	KC5PLZ	KE8VZH	KK7BWQ	KQ4GMY	NV5I	W6BBB		
AJ0D	K9QEW	KC8DEL	KE8WAV	KK7DEU	KQ4HMT	NZ0P	W6CVA		
K0HE	K9WAE	KC9TAU	KE8YMB	KK7ELZ	KQ4IQB	VA3CRL	W6SFG		
K1NI	KA3UFV	KC9VUQ	KE8YQN	KK7FJX	KS3N	VA3INV	W7EMI		
K1TSW	KA4CZL	KD0GIX	KE9FID	KM4AVB	KV8U	VE2ACP	W7LN		
K1XK	KA5PXE	KD0SRD	KF0IBT	KM4BLG	KY4KSP	VE2KLW	W7PAU		
K2TRD	KA9E	KD1KE	KF0LGL	KM4RGL	N0KRO	VE3LTP	W8CWM		
K3DPP	KB0FWP	KD2AMZ	KF0MPG	KM6NQX	N0PYN	VE3PZ	W8PDS		
K3LUE	KB0QIX	KD2MZO	KF4DMC	KM7AFF	N0RWJ	VE3XFD	W8TVO		
K3MLB	KB1RRR	KD2PEZ	KF4ZKU	KN4TYV	N0TXW	W0BTS	W9KMH		
K3ROD	KB2JZJ	KD2THF	KF5FWR	KN4WNX	N1BAT	W0CBS	WA1TDH		
K3RRP	KB2NER	KD2VBH	KF5MRO	KN6JDX	N1CFB	W0DCB	WA5IEK		
K4BMW	KB2TVR	KD2WXA	KF9K	KN6JOX	N1JWS	W0DZW	WA6IMS		
K4CIW	KB3OOH	KD4ACG	KG2RG	KO4CBI	N2LFD	W0QI	WA6USL		
K4EGL	KB3VPK	KD4DTR	KG4JZU	KO4FQY	N2YBX	W0ZZM	WA7WQV		
K4FIO	KB3W	KD5EFB	KG4RDE	KO4GRC	N3MH	W1TM	WA8ALQ		
K4ISG	KB4HAM	KD6GIK	KG4YHR	KO4HEF	N4BWW	W1XMM	WA9AQQ		
K4KHO	KB9EWG	KD7ISF	KG5GCX	KO4HJW	N4CVT	W2BZ	WB1LOV		
K4KSW	KB9JDM	KD8HER	KG5HFL	KO4OZK	N4POD	W3FNZ	WB2BWS		
K4MBD	KB9MOZ	KD8RQY	KI4PNK	KO4QZY	N4WLC	W3LAM	WB4EQJ		
K4MXI	KB9WAA	KD9PCN	KI5KZN	KO4SMP	N5BWC	W3MFB	WB6QEX		
K4NLS	KC0UTN	KD9VXC	KI5OLV	KO4VBL	N5EJH	W3NH	WD0DMO		



## Unique Check-Ins By State and SSB Net

### June, 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	1	3	3	2	Montana	0	0	0	2	0
Alaska	0	0	0	0	0	North Carolina	2	1	15	7	6
Arkansas	0	0	6	4	1	North Dakota	0	0	0	0	0
Arizona	0	0	1	4	0	Nebraska	0	0	4	2	0
California	0	0	1	14	0	New Hampshire	0	0	2	3	1
Colorado	0	0	1	2	0	New Jersey	0	0	8	5	4
Connecticut	1	0	6	2	1	New Mexico	0	0	0	2	1
Delaware	2	0	3	0	1	Nevada	0	0	1	1	0
Florida	1	0	17	9	11	New York	3	0	12	3	5
Georgia	1	0	10	8	1	Ohio	1	0	15	5	4
Hawaii	0	0	1	1	0	Oklahoma	0	0	2	3	1
Iowa	0	0	3	1	1	Oregon	0	2	0	5	0
Idaho	0	0	0	4	0	Pennsylvania	0	0	11	4	3
Illinois	0	1	6	6	3	Rhode Island	1	0	0	1	0
Indiana	2	0	2	4	3	South Carolina	2	1	6	7	1
Kansas	0	0	0	4	2	South Dakota	0	0	3	2	0
Kentucky	2	0	8	2	2	Tennessee	3	0	13	5	2
Louisiana	1	0	6	1	0	Texas	3	1	14	8	8
Massachusetts	2	0	3	1	0	Utah	0	0	0	2	0
Maryland	0	0	3	1	0	Virginia	2	0	13	7	4
Maine	1	0	7	1	1	Vermont	1	0	0	0	0
Michigan	4	0	5	2	3	Washington	0	2	0	5	0
Minnesota	0	1	4	6	1	Wisconsin	3	0	6	1	4
Missouri	0	0	6	6	0	West Virginia	1	0	6	1	1
Mississippi	2	0	0	0	3	Wyoming	0	0	1	3	1

## Exit with a Smile!

I thought this photo was in line with the QSLish theme of this issue. Credit to the W5RG website for this photo.

