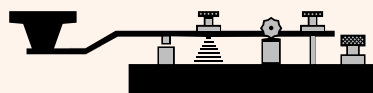


NAQCC NEWS



ISSUE 291 • SEPTEMBER 2022



KEY CLICKS

• **IN THIS ISSUE**

The Prez Sez... we have some new people; QSO Party updates; Tim W3ATB on the coast of Maine; Members want something new; Sprints; Gregg W8GG's portable trailer ops; Awards; A lofty Challenge; Net reports; Chapter outings with young, and not-so-young, hams; and more.

• **OPERATING AS N3A**

This year we will be celebrating our club's 18th anniversary from October 9 through 15 (UTC) and, as in past years, we need volunteers to put our special event callsign on the air during that week. No special equipment is needed other than your regular QRP/CW gear. Your operating schedule is completely flexible, and logging "paperwork" is kept to a minimum. See the details on page 3.

• **SEPTEMBER NAQCC ACTIVITIES**

Regular Monthly Sprint – Thursday, September 15, 2022, 0030-0230Z- (That's the evening of Wednesday, September 14, 2022 for us here in North America). <http://naqcc.info/contests.html>

September 2022 Monthly Challenge – The Castell Challenge - <http://naqcc.info/challenges/challenges202209.html>

Weekly Nets - http://naqcc.info/cw_nets.html

• **YOUR ARTICLE NEEDED!**

Please take a few minutes to tell us about your latest excursion, that thing you built, your favorite rig, or something funny. As long as it relates to QRP CW. Send it to Paul KD2MX: kd2mx@arrl.net

• **UPDATE YOUR MEMBER INFO**

Any time you change your QTH, email, or callsign, you can update your member info with a simple online form. First, check your information at <http://naqcc.info/memberlist.php> to make sure the rest of the fields are correct and then fill out the member update form here: http://naqcc.info/member_updates.html

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THE PREZ SEZ...

Greetings NAQCC Members!

LOTS NEW THIS MONTH, SO PLEASE READ ON!

NEXT MONTH IS OUR 18th ANNIVERSARY CELEBRATION!!! Our Anniversary Sprint is October 12th (UTC Date – the 11th in NA) and the week of October 9th through 16th is our N3A Anniversary event. Mark your calendar! Also, sometime later this month (around Sept 20th) the participation points through September 1st will be finalized – make sure you check your points for the prize tiers in our celebration activities. More information at: http://naqcc.info/main_n3a.html

WE'VE HAD SOME "PEOPLE CHANGES"

Our sincere thanks to **Jerry Pereira K4KBL #8806** who served as our first "official" Treasurer for the last few years and has stepped down. Another thanks to his replacement **Dennis Shoaf W4DWS #10593**. Dennis' first order of business was to open a commercial bank non-profit account and he is already working on that initiative. We have already established a PayPal business account. More on that in a bit.....

Special thanks also go to **Rich Carpenter N2RIC #9387** who has stepped down from the Facebook Administrator and is replaced by **Phil Harder K4NE #2991** who is our Twitter Account Manager – Phil will take over both social media accounts for us. Thank you both!!

On a sad note, long time Swap and Shop manager **Joe Pfeuffer KW1K #7862** recently became a silent key. Our sincere condolences to his family and thanks to him for all of his years of service.

Our new Swap and Shop Manager is **Michael Brown KG9DW #7510**. Michael has already sent his first solicitation out – please read it (if you are interested) as the e-mail address has changed for submissions. Thank you, Michael!

PAYPAL DONATIONS

We now have a business account – and we now can take donations directly. As we are a "non-profit organization," we get a special deal. You can now donate directly to help support our activities – and next month's anniversary is the BIG ONE for us. You can look on our web page for the "DONATE" buttons (the left sidebar and bottom of the home page just above the "Donations" paragraph). And while I have you, please consider making a small donation (yes, they are tax deductible!!) in the next few weeks so we can make our Anniversary Celebration the best ever!! Please continue to use Amazon Smile too! We have received \$130 to date from that program. It all helps.

Our Newsletter Editor Brent WT4U is always looking for submissions for the newsletter—anything related to NAQCC, QRP CW. Send Spotlight Editor Paul K2DMX an e-mail kd2mx@arri.net if you have something to submit or need more information

72/73!
Steve Szabo WB4OMM #5913
NAQCC President



A little bit of QRP on a wire goes a long way!



18TH ANNIVERSARY CELEBRATION

Planning continues for our NAQCC 18th Anniversary celebration the week of October 9. Special event stations will put N3A/# on the air from locations all over the country and we are recruiting volunteer operators for that purpose. Of course, a big part of our celebration each year is the special anniversary sprint and monthly challenge, with their associated prize drawings.

SEPTEMBER UPDATE

This year we will be celebrating our club's 18th anniversary from October 9 through 16 (UTC) and, as in past years, we need volunteers to put our special event callsign on the air during that week. No special equipment is needed other than your regular QRP/CW gear. Your operating schedule is completely flexible, and logging "paperwork" is kept to a minimum. **We need a big push this month as I have only 7 ops signed up. I know you are out there, veterans and rookies – come now!**

PRIZES!

We usually don't reveal the prize list ahead of time but will list them in the months to come.



PARTICIPATION COUNTS!

Please remember that there is a throughout-the-year participation requirement to be eligible for the best prizes. It's easy to rack up enough points, even if you started late. Drawing details at http://www.naqcc.info/prize_drawing_18th_anniv.html

MORE DETAILS

For more information about our celebration, and to see summary reports from previous years, go to http://www.naqcc.info/main_n3a.html.

We can put our special N3A callsign on the air from all 10 US call districts, Alaska, Hawaii, the US Virgin Islands, and Puerto Rico.

OPERATE AS N3A IN THE OCTOBER SPRINT

One operator from each district will be exclusively designated to use the special call in the Sprint that week. That person should have some previous Sprint experience. We still have openings for the designated sprint operator in all regions.

SIGN UP NOW

Other than that, there are no special requirements. If you are a member of the NAQCC and can operate QRP/CW (any speed) on one or more HF bands, you qualify. There is no limit to the number of people who participate so "the more the merrier." If you have not volunteered before, it's a great experience and a chance to make QRP contacts across the US and Canada and maybe work some DX stations.

If you would like to be one of our special ops, or if you just need some questions answered before making a commitment, send me an email. If you want to be the one designated N3A sprint operator for your district let me know that as well—first come first served. (Please be sure to include your call district and NAQCC membership number in your email.) –Rich, KC3MIO

hamberger@ptd.net



NAQCC STATE QSO PARTY CHALLENGE UPDATE

QSO PARTIES IN EVERY CORNER

Lots of events, and weirdly, most of them are on the same weekend. The bands are bound to cooperate for at least some of them from almost anywhere. After California, there are just six QSO Parties and two weekends left in the season.

GRAB THAT MULTIPLIER!

Even if you can't spend much time on a given event, fire up the rig long enough to grab two quick QSOs to earn the multiplier.

POST YOUR RESULTS

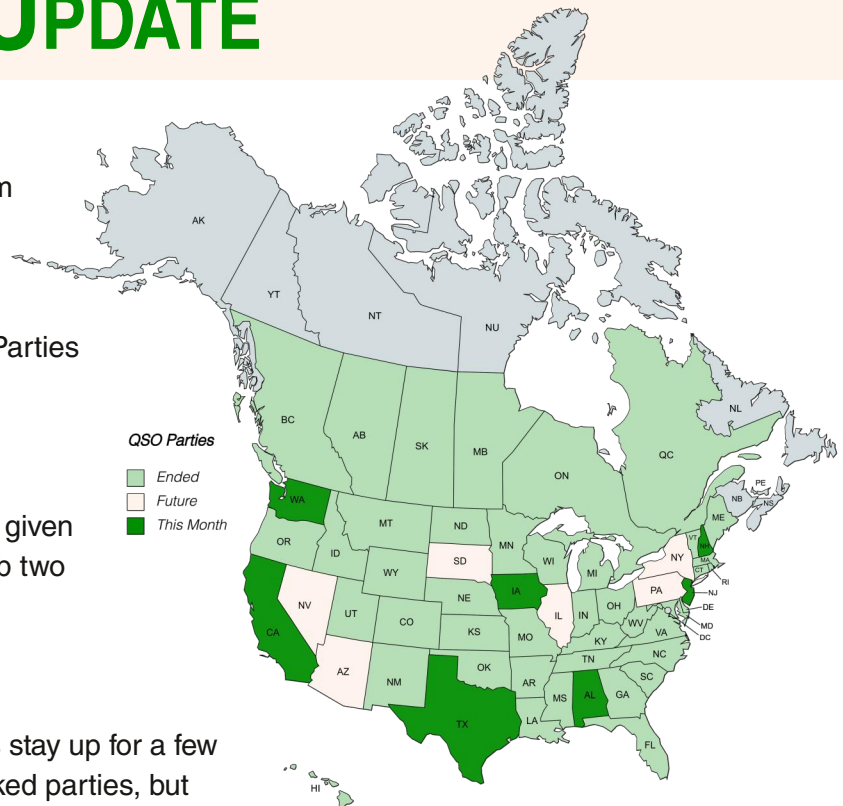
The 3830Scores.com submission forms stay up for a few weeks after the events, so if you've worked parties, but haven't posted your results, get on over there. See page 7 of the [April 2022 Newsletter](#) for a step-by-step guide to help you fill out the form.

STATS

So far this year 42 NAQCC members have posted 8,101 QSOs in 34 QSO Parties

LEADERBOARD

Member	Mult	QSOs	Score	Award	Pace
Alan KR4AE, #5847	25	1,305	32,625	Platinum	62,343
Mike W7LG, #10391	33	619	20,427	Gold	39,034
Don VE3DQN, #5846	32	515	16,480	Gold	31,492
Brent WT4U, #9019	33	480	15,840	Gold	30,269
Dave AB9BZ, #9309	30	372	11,160	Gold	21,326
Rick KY0Q, #9647	23	439	10,097	Gold	19,294
Anthony K8ZT, #412	29	345	10,005	Gold	19,119
Dale WC7S, #272	10	409	4,090	Bronze	7,816
John W2QL, #8914	16	191	3,056	Bronze	5,840
Bob N2EIM, #10373	11	169	1,859	Bronze	3,552
Will NQ2W, #4839	6	215	1,290	Bronze	2,465



UPCOMING EVENTS

State	Times	IN	Out	Freqs	Links
Alabama	1500Z, Sep 10 to 0300Z, Sep 11	RST County	RST ST	45kHz up	Rules
Texas	1400Z, Sep 17 to 0200Z, Sep 18 and 1400Z-2000Z, Sep 18	RST County	RST ST	20 kHz to 40 kHz up	Rules
Iowa	1400Z, Sep 17 to 0200Z, Sep 18	RST County	RST ST	1.820 and 40 kHz up	Rules
New Hampshire	1600Z, Sep 17 to 0400Z, Sep 18, and 1600Z-2200Z, Sep 18	RST County	RST ST	1.875, 3.845, 7.235, 14.280, 21.380, 28.390, 50.200	Rules
New Jersey	1600Z, Sep 17 to 0359Z, Sep 18	RST County	RST ST	50kHz up	Rules
Washington	1600Z, Sep 17 to 0700Z, Sep 18 and 1600Z-2400Z, Sep 18	RST County	RST ST	1.830, 3.550, 7.045, 14.050, 21.050, 28.040, 50.095	Rules
California	1600Z, Oct 1 to 2200Z, Oct 2	QSO# County	QSO# ST	1.815 & 40 kHz up	Rules

HOW TO PARTICIPATE

1. Work the QSO parties. Rules differ slightly by state, so check those. Work at least two stations in each QSO Party.
2. Post a summary of your results for each QSO Party to the appropriate page on <https://www.3830scores.com> The links to the submittal forms are in on the left side of the page in yellow.
3. Under “club” choose “other” and then type in NAQCC. If enough people do that we can get added to the pulldown menu. If you're already committed to another club, don't worry about it. It won't affect our friendly competition, but it's nice to get NAQCC some visibility.
4. Some QSO Parties lump CW together with digital or other modes. If that happens, send a note to QSO Party Challenge Manager Don VE3DQN

- at don@hekman.net and let him know that you worked strictly CW, or if mixed, how many of your contacts were CW.
5. Check the NAQCC Newsletter each month to see how everyone is doing.

NOTES

Individual QSO Parties will do their own official scoring based on uploaded Cabrillo logs. We're just looking at the summary you post to 3830scores.

To participate, you must enter as a QRP station. You don't have to limit yourself to CW operation, but only those QSOs will count toward the NAQCC QSO Party Challenge.

Questions? Read Don VE3DQN's [November article](#) or contact him at: don@hekman.net



ACADIA TRIP

BY TIM W3ATB #9553

On June 29 and 30th, 2022 I was lucky enough to be on Mt. Desert Island (MDI) in Downeast Maine visiting my daughter, son-in-law, and granddaughter. I had the early morning to myself each day and was staying in Southwest Harbor, only four miles from the Seawall picnic area in Acadia National Park.



This part of Acadia is at, or near, the southern-most part of MDI. The weather was superb with bright sunshine and cool temperatures in the

mid-60s F. The intense sunlight, however, made it feel much warmer.

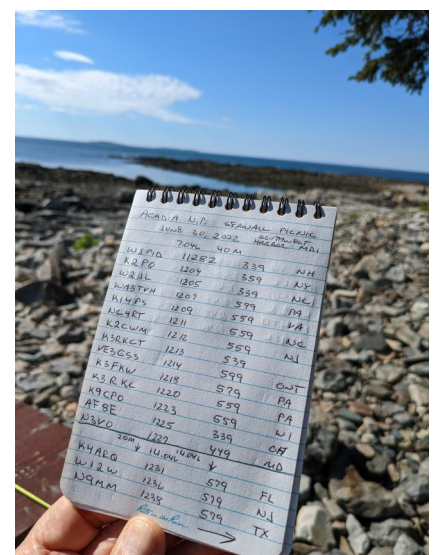
I usually schedule a Parks on the Air (POTA) activation a day or two in advance. Being a person that likes to mix things up, I posted my first activa-



tion just 45 minutes before going on the air. The folks running the POTA website have made it very easy to do even with a smartphone. I was sitting in the parking lot of a restaurant when I announced to POTA chasers, "Hey, come work me here in Acadia NP at 1200Z!" It worked!

The first day I was in a rush because I was trying to get on the air at the promised time. I drove past the table I was to use the next day without seeing it. All the other tables I spotted next to the water had no trees by them. I need a tall tree to hold up my vertical 29-foot wire that has a 9:1 unun attached to it. I decided to use my Elecraft KX3 for these activations.

I settled for a picnic table with a very small tree



next to it. It would be a miracle if my wretched drooping sloper antenna would work. This is what happens when you don't scout an area first.

Fortunately, enough chasers came to the rescue. I logged 14 contacts in about 45 minutes. Ten of them were on 40 meters and the other four were on 20 meters. After I packed up my gear I noticed some movement across the road. A man was leaving a picnic table nestled under some very tall pine trees.

"That table looks perfect. How did I miss that driving in?"

After he walked away, I sauntered over to scout it out. It was just above the high-tide line and faced the Atlantic Ocean. The best part is low tide on these two days was right around 1100Z so the water was 70 feet away exposing a nice piece of granite bedrock I could stand on to get my halyard up and over the trees next to the table.

I could already feel that tomorrow was going to be an even better day than today.

DAY TWO

Since I knew I was coming back to the Seawall area to do back-to-back activations, I put myself



on the POTA schedule page about 15 hours before I would go back on the air. I believe it helped me get even more contacts than the day before.

Low tide happened as I was getting out of the shower and it would take at least four hours before the water lapped up and over the granite where I was about to lay out my halyard line. I've

discovered all the secrets to success using a small 8 oz nalgene water bottle filled with some rocks and sand to get a halyard line up 50 or 60 feet. I did it on this day with one throw. I wish I had captured the throw on video.

I stretched out a 25-foot counterpoise wire from the unun down to the bedrock platform. While it was not in the seawater, I'm sure it was getting some of the good jujumagumbo from the ocean.



I had texted my outdoor radio mentor Jim Cluett, W1PID, and we barely worked each other on 40 meters. He was in New Hampshire so my signal and his might have been really close to the HF shadow boundary.

At 1200Z, I started to call CQ and moments later I started logging contacts. There were no huge pile-ups, but I didn't expect any that early in the morning. I was hoping for some European POTA chasers, but they must not have heard my KX3.

The well ran dry on both 40 and 20 meters before 1300Z. Even so, I logged 14 operators on 20 meters and another nine on 40 meters. I packed up in no great rush to leave this wonderful place, even if weed whacking was on the schedule just behind me starting at 1230Z!



Yes, halfway through the activation NPS employees showed up to weed whack the tall grass across the road from me. I was not too happy to discover I had left my earphones back in my shack 225 miles away. Be prepared!



FROM PAUL N8XMS # 675 - SO WHERE HAVE I BEEN?

This is just a quick note to update everyone who has been wondering why the former president of the club hasn't been seen in any sprints or challenges lately. Well, I'm still alive and kicking but it has been a rough few months. In early May I had a complete computer crash, including my external backup HD. Recovery from that was a long and difficult process that included working with a forensic data recovery company, switching from a Mac to a Windows computer, and countless hours of keyboard/screen time.

On top of that we have been doing some significant home renovations, with numerous work crews running around in a torn-up and chaotic house. And of course, our granddaughters (4 of them now) still "need" regular attention! Consequently I have only had 8 short QSOs this summer and have had absolutely no time for any club activity. Everything is starting to wind down with only a few more weeks left on the renovation projects. I'm hoping to be fully back on the air and in the sprints and challenges by our club anniversary celebration in October. See you soon. Dit dit

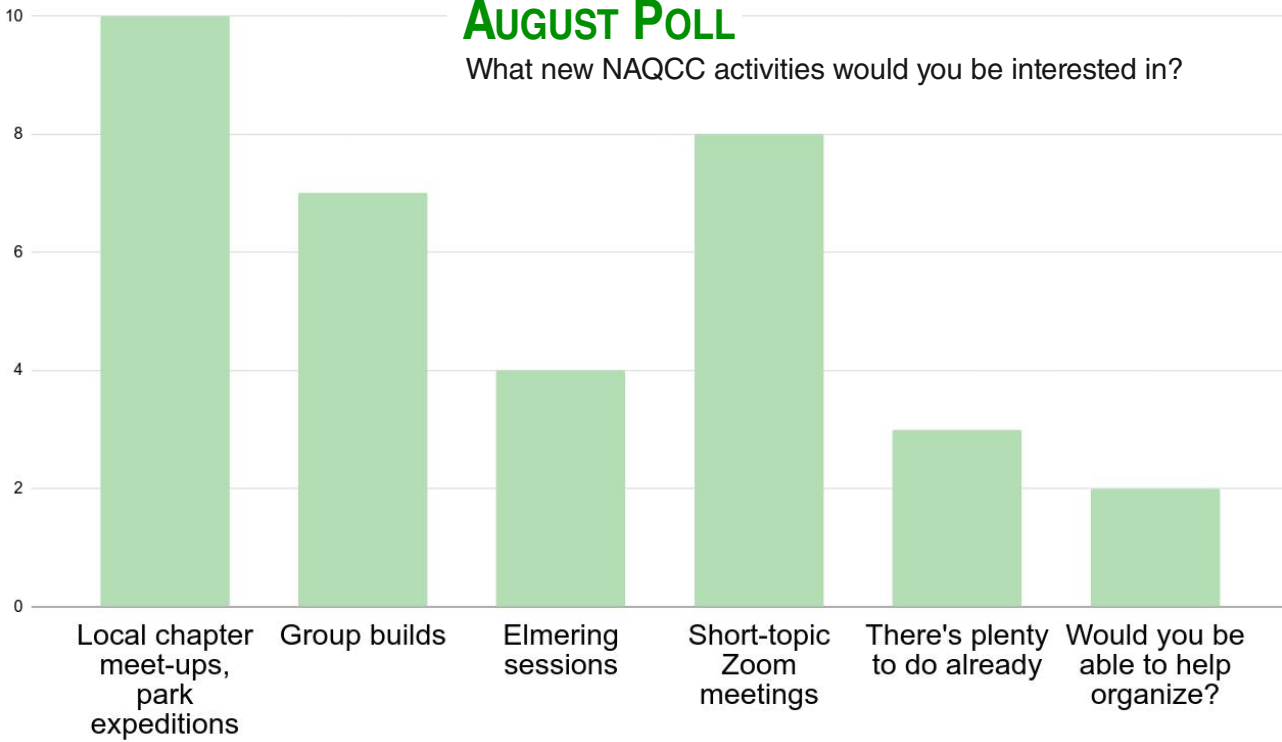
MEMBER POLL

SEPTEMBER POLL

Did you Participate in any of the NAQCC Activities through the Summer? Let us know at http://naqcc.info/poll_new.html

AUGUST POLL

What new NAQCC activities would you be interested in?



POLL SOAPBOX SAMPLER

Gregg W8GG - I know many of our members enjoy the mw sprints. We have one in winter and one in summer. Perhaps adding 2 more in the spring and the fall. sometimes the propagation during the equinox can be very good.

Jerry K4KBL - I concur with more mw Sprints. Also like the idea of Zoom sessions with various topics. Difficult part is to get folks to put it together! Finally, local area NAQCC informal meetings would be great, even for a coffee at the local Starbucks

Glen W1ND - Yes to more mW sprints.

Walt KB1M - mW sprints are a hoot and so is running mW power during a regular sprint. Maybe having a power output column in results would encourage members to use less than 5w. 5W is borderline QRO!



NAQCC SPRINT

SEPTEMBER SPRINT

Our Sprint this month will be on Thursday, September 15, 0030-0230 Z. That's the evening of Wednesday, September 14th in North America. Complete information at <http://naqcc.info/sprint/sprint202209.html>.

RULES

Complete sprint rules and instructions on how to submit your log can be found at http://naqcc.info/sprint_rules.html. On that page you will also find information about the different computer loggers that are supported for our sprints. The membership data files for those supported loggers can be downloaded at <http://naqcc.info/contests.html>. **Please be sure to always get the latest membership data for your logger about a day before the Sprint.** A complete schedule for our upcoming sprints can be found at http://naqcc.info/sprint_sked.html.

AUGUST SPRINT RESULTS:

Complete Sprint results, including all of the soapbox comments, can be found at <http://www.naqcc.info/sprint/sprint202208.html>. High scores can be seen in the tables on the next page.

We would especially like to welcome our first-time regular sprint loggers and hope that they will return to participate often: VY2DP, KC3MAL, KD2OMV, AC5RN, N5ZN, KY4GS, & WB5ACT

August Sprint				
	Current Month	Previous Month	All-Time Record	Record Date
Logs	86	97	217	4/17
Participants	113	139	269	2/13
Total QSOs	921	1275	3154	4/17
Hour 1 QSOs	580	710	1704	4/17
Hour 2 QSOs	341	565	1450	4/17
20m QSOs	91	268	1232	8/13
40m QSOs	800	995	2203	4/17
80m QSOs	30	12	1417	2/13
Avg QSOs/Station	10.7	13.1	19.3	9/11

SWA STRAIGHT KEY CATEGORY			
Division	1st	2nd	3rd
W1	KN1H	N1BRI	WB1GYZ
W2	KA2KGP	W2SH	KD2OMV
W3	KC3MIO	KW2A	KA3TTT AK3X
W4	KC5F	W4NLT	K4WY
W5	N5GW	KG5HCF	AC5RN
W6	K6GPB	-	-
W7	KJ7KDB	-	-
W8	W8GG	KI8JY	-
W9	K9NUD	WB9HFK	K9QEW
W0	N0TA	AA5LH	NN0SS
Canada	VA3NU	VE3IIM	-
DX	-	-	-

SWA BUG CATEGORY			
Division	1st	2nd	3rd
W1	-	-	-
W2	-	-	-
W3	K3RLL	NN3E	K3WWP
W4	KJ4R	-	-
W5	AA5AD	K5GQ	-
W6	-	-	-
W7	-	-	-
W8	K8NGW	-	-
W9	-	-	-
W0	WU0A	-	-
Canada	VE3HUR	-	-
DX	-	-	-

SWA KEYSER/KEYBOARD CATEGORY			
Division	1st	2nd	3rd
W1	KB1M	AC5XK	W1ZU
W2	WA1GWH	N2ESE	-
W3	KC3RN	-	-
W4	K4BAI	N4MJ	K4KRW
W5	-	-	-
W6	-	-	-
W7	KF7Z	-	-
W8	WI8J	WA8SAN	NF8M
W9	KY0Q	AB9BZ	K9EYT
W0	K9OSC	K0EW	N0MII
Canada	VE3DQN	VY2DP VE3GNU	-
DX	DK1VD	-	-

GAIN CATEGORY			
KEY	1st	2nd	3rd
SK	-	-	-
BUG	-	-	-
K/K	-	-	-

FIRST-TIME ENTRANT HIGH SCORE			
Key Type	1st	2nd	3rd
SK	KD2OMV	AC5RN	KY4GS N5ZN WB5ACT
BUG	-	-	-
K/K	VY2DP	-	-
PRIZE DRAWING WINNER			
NF8M			

SPRINT HONOR ROLL

We honor the following members for their outstanding participation over the years in our regular sprints. Exact counts can be seen at http://naqcc.info/sprint_dates.html.

Number of Sprints	Members
50+	NQ2W WB1GYZ KF7WNS KC7DM KJ4R AA0W KB0ETU N7QR K2YGM AA7CU NN0SS VE3GNU WD4OHD N8QY WY3H K4KBL K6CSL W5UAA WK6L KC2EGL K2HT KE9DR AB8FJ NN9K K4ORD K5GQ K1IX N1JI W4HH KB4QQJ KB9ILT
75+	N8LA K4NVJ KQ1P KD3CA K9EYT K9OSC VE3FUJ WD0K WB4OMM N8BB KB1M N2CN WA1GWH K6MGO NF5U VE3DQN WA2FBN WB9HFK N8APO WI5H
100+	K1IEE K4KRW W4DUK AA9L AK3X KD2MX NO2D N5GW WB8ENE NA4O KN1H KA9FQG N4MJ
125+	K2CWM K4JPN KD0V N4FI N2ESE KE5YUM WX4RM WA8SAN WG8Y N0TA
150+	W9CC N8XMS K4BAI NF8M K3RLL KU4A
175+	W2JEK W2SH W8GG
200+	K3WWP KA2KGP

SPRINT SOAPBOX SAMPLER

K3WWP - My noise situation is getting better here so maybe next month I'll put in a bigger effort. Nice to get a high numbered member. The club continues to grow and that is great.

KJ7KDB - I could hear one member calling CQ NA on 20 meters, attempted to complete a QSO for the contest but no luck. I also tried to call CQ NA but no response. Still fun to try @ 5 watts. Xiegu G90 radio. Maybe better luck next month! 73, Tim KJ7KDB

NO2D - Would like to have spent more time in the sprint but my arm got tired so I stopped. Need to do arm exercises and practice more with the straight key. Thanks to all those who make the sprints possible. I really enjoy them. Pete

NA4O - Portable 5w from KX2 from hotel room in KY. Antenna was inside wire hanging around room. Heard a few; worked one; I will call that a success for a first time effort.

AB9BZ - Great sprint tonight, I had a good run going, even got to work the Prez. Really enjoyed tonight, have to call CQ more often. My experimental Endfed antenna, fed with 75 ohm CATV line is working well. Thanks for the contacts 72

WX4RM - Thanks to all who were able to hear my little peanut whistle of a signal. Had fun as always.

N8LA - KX-3; 5W; 200' Dipole Up 35'; NAQCCode Warrior with W8GG finger pieces—thanks, Gregg, for the finger pieces and the contact—wired as dual paddle side swiper by AD0BI. Thanks to all who worked me and apologies to all I could not pull out of the noise.



PORTABLE TRAILER OPERATIONS 2022 - ANTENNA REDUX

BY GREGG W8GG #1444

Last fall I got to test out portable trailer operations during a Thanksgiving visit with the kids out west. I used a homebrew, two-band trap vertical antenna dubbed the “Phoenix Vertical.” (Write-up in NAQCC newsletter Feb 2022).

It attached to the ladder rack on the rear of our travel trailer. It worked well, but I kept thinking about some other options. The main drawback of the vertical was all the radials required to make it play well. Also, the XYL did not approve of the “hanging hazard” of the radial array. That, along with the fact that many parks do not allow you to hang anything in the trees made me think that there had to be something better. Something like a good cheap way to get a dipole up in the air on the same ladder mount.

My requirements were simple: A 20/40-meter trap dipole mounted on a telescoping mast. Easy up, easy down, with the strength to hold up an aerial safely, at about 25 to 30 feet. The dipole should be the easy part, so I concentrated on the mast first. I



Mast raised between the pines with Dipole at 30'

thought about buying one of those commercial fiberglass jobs, but a quick look at the prices and I knew I could homebrew one better.

It was time for another trip to the “old scrap” aluminum pile. A quick rummage through the heap netted several good salvageable telescoping sections, two six footers, and two five-foot sections



Bumper mounted fence hinge to secure bottom of mast



Mast fully extended and ready to be walked up



View of Elk Lake, Michigan from the first campsite

with a 4-foot top section that accepted a ½ inch diameter, 3-foot long, non-conducting PVC section. Now I needed a good easy way to mount it to the trailer. A quick look through the junk box, and I found an old fence hinge, just the thing I needed for a “fold over” mast. Total height, just under 31 feet.

I tested the ease of getting it up and down quickly in the back yard. It wasn't very heavy (about 11 lbs) and worked beautifully. The fence hinge was bolted to the rear bumper of the trailer just under the ladder. This would serve as the “fold over” mounting bracket for the base of the mast, with the ladder serving as the upper mounting support. I drilled a hole through the side of the PVC



Mast sections ready to be assembled or stowed



View of second campsite with mast raised

top piece to allow the attachment of a small pulley.

I measured out 58 feet of Dacron rope and heat sealed both ends. Now I had a good halyard with which to quickly hoist an antenna up the mast. I put two short pieces of water pipe insulating foam around the ladder mount where the mast would be resting against it as a bumper cushion. It was ready for action. Now on to the antenna.

I have used homebrew 20/40 meter trap dipoles for a while now with good results. It is a full-size 20m wire with two traps made of about 32-34 turns of #20 magnet wire close wound on a 1½ inch PVC pipe. The traps got a good coating of



Mast secured to bumper for travel with bungee cords



Morning "cup o joe" and P/8 QRP.
Nothing better

liquid electric tape for protection before soldering on the tuning wire. The tuning stubs for 40-meters are only about a yard long. It allows me to have full coverage of both my favorite bands, and is only about 40 feet total length.

Used as an inverted-V, it can be shoehorned into just about any location. Fed with 40' of RG58/U coax, it's just the thing for operating in style when camping or doing portable operations like Field Day or POTA. A good dipole up $\frac{1}{4}$ to $\frac{1}{2}$ wave at the feed point is a very efficient radiator. I made two of them; one with insulated wire, and one with bare stranded copper #14 gauge. I pre-tuned both in the back yard on a 32-foot mast so they wouldn't give me any surprises upon deployment. Now on to the camping!

My first real test was camping at Elk Lake in northern Michigan. My XYL, Vicki and I had planned a couple weeks of fun with friends at Whitewater Park. We had a beautiful campsite overlooking the lake from the edge of a pine grove. As soon as we had our trailer secure, my thoughts turned to RADIO. Concentrating on the antenna, I pulled out a screwdriver and crescent wrench and extended all of the aluminum mast sections to length.

The mast went up and down easily as planned, but the dipole, which was made of hard, stranded copper was a bit of a tangle problem. A little bit of untangling, then laid out and hoisted to the top. The ends were tied off to nearby pine trees and W8GG/ portable 8 was ready for action.

As the XYL had a HUGE itinerary for the trip, I didn't know how much time I would have to play radio. We spent our days bicycling, exploring new beaches, boating with friends, visiting some local breweries and enjoying the summer weather. Most of the "on air time" was first thing in the morning with coffee, or early evening before or after dinner.

The rig this time out was the Elecraft K2. Many times I use an FT-817 on my portable ops, but I wanted to be able to run a few more watts if needed. So the K2 won out this time. Turned out that propagation was FB the entire time, and I did well with just five watts.

My very first P/8 QSO with the new lashup was quite nice. 20M was open and I answered a CQ from a station in Spain. He came back with a 559. I was pleased to see that my K2 at 5 watts and an inverted-V up 30 feet would 'hop the pond'!

The limited casual time I spent operating during my first week netted 26 QSOs in eleven states, plus DX from Italy, Spain, Germany, and Canada. There was some POTA, and SKCC contacts, as well as some good rag chews. My favorites, were a QSO with W1AW, and a nice chat with K3WWP, John just before dinner one night.

We moved to a site on a hill overlooking the lake for the second week of our stay, also with great results. Week two was much the same with 18 QSOs from 14 states, Poland and Canada. My favorite QSO was with Bob WB5OSD/QRPp, who was running a "rock-mite" xcvr at just 300mw. It was great fun to have a QRP to QRPp contact! Ham Radio at its finest for sure.



Caboose from the “Pere Marquette” line in northern Michigan

LESSONS LEARNED AND SIDE NOTES.

BE SAFE. I took the trailer and all the radio gear out to a State park on Lake Michigan about a month earlier with good intentions. It was a windy week with gusts in excess of 70 mph. I planned on raising my new mast and trap dipole but with the high winds I did not want the whole thing to come down and cause injury. So, rather than test the true wind survival of my homebrew mast, in the trailer it stayed. No hamming that week. (sigh)

When raising antennas at a new location, be aware of overhead power lines and other objects your antenna could come in contact with.

Don't take chances near power lines just to get on the air. That's how SK's are made.

The other thing noted was an e-mail from a fellow NAQCC member about my earlier trailer operations while out west last year. He was also a trailer camper who used ham radio while camping. He asked if I had ever experienced RFI problems with the trailer inverter power systems while transmitting. So I did some testing. I didn't notice anything at QRP power levels, but at 10 watts and up I could hear the cooling fan in the trailer inverter come on and off as I transmitted. I began putting ferrite blocks on the feed lines to eliminate

the problem with no joy. Then I put one around the 12vdc supply line to the rig near the lighter supply plug. That did the trick. Guess some stray RF juice was getting into the inverter through the 12v supply lines under my seat. Those ferrite self-clamping blocks are great little buggers aren't they? The “cat's meow.” Sure wish I had some of those blocks when I was a Novice. Might of saved me a “pink slip”; but that's another story.

Another thought on portable-ops. I like resonant antennas. Especially dipoles. They don't require a tuner, and the current portion of the antenna can be higher than an EFHW with the same mast. They have worked well for me. I have come to trust them.

Don't be afraid to try your antenna out on bands it was not designed for. I was pleased to find my two-band trap dipole for 20/40 meters also accepted power and made QSO's quite nicely on 30 meters and 17 meters as well. I didn't have a tuner or an SWR bridge, but the K2 was happy and so was I.

One other thing, I seem to see a train engine, caboose, or both, on display at local parks nearly everywhere we travel. This trip was no exception. They are good fun to visit and read about some of the local history in many small towns across the USA. So here's a pix of the caboose we found along the way this time.

Well all too soon our summer trip was over, with many QSOs in the log and many more memories to cherish of all the fun we had. The trap dipole and homebrew mast worked great. It packed it away quickly and easily as planned. It's a keeper. I may have to retire the “Phoenix Vertical” or pack it at the ready for a backup aerial. Now that I have another good, reliable antenna system, I will be thinking about some other portable operations. On to more fun with Ham Radio QRP style as we travel around the USA.

NAQCC AWARDS

FEATURED AWARDS:

QSO-A-DAY

This award, which is renewed annually, is designed to encourage hams to spend more time on the CW bands thus increasing the CW presence there which is so important in this day and age. The award was initially suggested by K4UK in a QSO with K3WWP late in 2004. It is based on K3WWP's 'streak' of having made (and continuing to make) at least one QRP/CW QSO each day since August 5, 1994.

Note the new additional DX endorsement.

TIME FRAME FOR QUALIFYING QSO'S:

January 1, 0000Z through December 31, 2400Z of the current year. The award starts over again each year.

BASIC AWARD PREMISE:

Make at least one QSO per day.

CATEGORIES:

1. FULL YEAR - Make at least one QSO on each of the 365 (366) days during the calendar year.
2. PARTIAL YEAR - Make at least one QSO on each day of the following number of calendar months in the calendar year:
 - 2A. 11 MONTHS
 - 2B. 10 MONTHS
 - 2C. 9 MONTHS
 - 2D. 8 MONTHS
 - 2E. 7 MONTHS
 - 2F. 6 MONTHS
- 3A. 30 DAYS - Make at least 1 QSO on each day of a consecutive 30 day period during the year. The 30 days can span months.

RECENTLY ISSUED AWARDS:

KMPW AWARD

#	Call	Date
0015	K1YAN	08/10/22

SUPER STREAKS

NAQCC Co-founder John K3WWP #002 almost certainly holds the record for QRP-CW QSO-a-day streaks. Still going strong after 27 years. He also has one of the longest continuously maintained ham radio sites on the Internet. Check it out at:

<https://k3wwp.com/>



Awards earn you participation points so you're eligible for the best prizes in the annual anniversary drawings.



NAQCC CHALLENGE

BY GARY K1YAN #2365

THIS MONTH'S LETTER CHALLENGE: CASTELL BUILDING

Did you ever build a human pyramid as a kid? The big guys got on their hands and knees then other kids got up on their backs and so on. The result was a pyramid maybe two or three layers tall. Pretty impressive at the time, but, the Catalonians take it to a whole new level, literally.

Some festivals feature the building of a human castell or castle. The tradition began in the early 18th century and has continued to the present day. The practice slowly spread over parts of Spain but interest has grown at a more rapid pace in the past 60 years or so. It was a male-only event until women entered the field in the 1980s. Their inclusion helped to build castells of nine or even ten stories. A team of more than 800 erected the first ten level castella in 1998. Teams are outfitted in white pants, a black sash and a shirt in the team

color. More than a decoration, the sash is used as a handhold or foothold for climbing into position. It is common for the castellers who will be on the upper levels to be barefoot to enhance their feel and balance.

The process begins with a ground level base, the pinya. Two additional layers of base may be used, a second layer, the folre and then a third layer, the manilles. Once it is decided that the base is acceptable, the additional layers are constructed. Castellers climb up over the lower members and the castle is complete when a child, the enxaneta or rider, has reached the highest level alone and raises his or her hand to signal the castella is complete. The structure is then dismantled level by level. Total success is achieved by building and dismantling with no falls or collapses.




WORDS

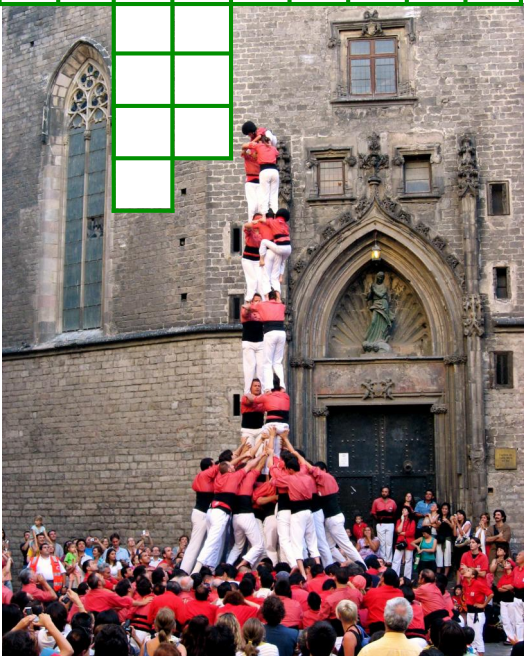
- CASTALONIAN FESTIVALS
- CASTELL BUILDING
- WHITE PANTS BLACK SASH TEAM SHIRT
- PINYA FOLRE MANILLES
- ENXANETA

CHALLENGE TRACKER:

A	B	C	D	E	F	G	H	I	K	L	M	N	O	P	R	S	T	U	V	W	X	Y	

X Every time you work a new station this month, mark off the lowest box under each letter of the call to track your progress and see what letters you still need. You can download a printable version of this month's tracker at: http://naqcc.info/challenge_tracker.pdf

 Entering the Challenges earns you participation points so you're eligible for the best prizes in the annual anniversary drawings.



SUBMITTING YOUR ENTRY

The easiest way is to use the great tool hosted by Robby WB5RVZ. Create an account, choose this month's challenge, and paste in all the eligible calls you worked. It will apply the letters, tell you what you're missing, and fill out the email for you. <http://naqccletters.azurewebsites.net/>

If you want to do it by hand, or got some but not all of the words and want to pick up a participation point, send an email to

Subject: (your call) NAQCC (month year) Challenge

Body: your call:
word1 - call1 call2 call3
word2 - call1 call2 call3

RULES:

Just make ALL the words from calls of stations you work subject to the General Challenge Rules. (Any spaces in the phrases should be ignored. For example the challenge phrase "INVERTED V ANTENNA" should be treated as if it is the single word "INVERTEDVANTENNA.")

Each letter in a callsign you work during the month can be used twice to complete the challenge words. Complete rules, information, and a helpful tutorial on how to organize your work for an alphabet challenge along with detailed general rules and submission instructions can be found at http://naqcc.info/challenges_rules.html

NEXT MONTH'S CHALLENGE

Feel the need... the need for speed in October's McElroy letter challenge.

<http://naqcc.info/challenges/challenges202210.html>

LAST MONTH'S CHALLENGES

The deadline for submissions for the Medical Product Safety letter challenge is still a few days away. You can see what has been submitted so far at <http://www.naqcc.info/challenges/challenges202207.html> and final results will be posted on that page shortly after the 10th of the month.

CHALLENGE HONOR ROLL

We honor the following members for their outstanding participation over the years in our monthly challenges. Exact counts can be seen at http://naqcc.info/challenges_schedule.html.

Number of Challenges	Members
25+	KU4A N1JI K9OSC KD0V KA5PVB N4OW KB1M WY3H WY7N AC2C VE3HUR DK1VD KI4IO N1LU KD2MX
50+	PA9CW VE3FUJ WI5H NF1U WA2FBN AK3X W3IQ KJ4R VE3DQN G3JFS AH6AX N9SE WB4OMM
75+	PA0XAW
100+	K1IEE
125+	K1YAN
150+	W2JEK K3WWP N8XMS

CHALLENGE SOAPBOX SAMPLER

NQ8T - Great activity!!! Thank you for keeping it going!

AD0YM - I really enjoyed completing this month's challenge by using exclusively portable operation. I thought the last letter was going to require some shack time, but I was able to activate another park and when the pile up settled, there was the last "O."

W1BLU - Challenging alright. The solar conditions hit. Oh boy! I'd have finished in 7 days if calling myself was legal, lol. It taught me a few things though... #1. LISTEN for possible weak signals, (it was apparent to me that so many people calling CQ expected a 1 kW response). #2. QRP is always fun but it isn't always easy. Great job folks. Thank you all. 73, Blue

N8RVE - Again, a very fun and challenging event. I had trouble finding "o" but at the end I worked kb8oom and finished. Thanks Sam, and everyone that puts on these challenges. 72

M0KTZ - Thanks for another nice challenge. Operated this one as I/M0KTZ. TNX and 72



NAQCC NETS

We have a number of nets (QRS = slow speed, QRQ = higher speed) designed to help people build up their CW operating skills. Complete information about these nets can be found at http://naqcc.info/cw_nets.html. Questions should be directed to Net Manager Mark, W8EWH.

NAQCC Net Schedule				
Net	Local Time	UTC	Freq +/-	Primary NCS
East Texas QRS Net (ETN)	Monday 7pm CDT	Tuesday 0000 Z	7066 kHz Summer 3566 kHz Winter	Allen KA5TJS (TX)
Midwest QRS Net (MWN)	Monday 7:30 CDT	Tuesday 0030 Z	7031 kHz	Bob W0CC (KS)
Pacific Northwest 80m QRS Net (PNW80)	Thursday 7 PM PDT	Friday 0200 Z	3556.5 kHz	Stewart KE7LKW (WA)
Wyoming Daily QRS 80 Meter Net (WY80)	Inactive			Steve KE7UUJ (WY)

Note: On the rare occasions that there is a conflict between one of our scheduled nets and one of our regular sprints, the sprint will take precedence.

NET CONTROL STATION REPORTS

NAQCC PACIFIC NORTHWEST QRS 80 METER NET (PNW80)

Thursday evenings 7:00 PM PDT, which is Friday 0200 UTC on 3556.5 kHz +/-
Main NCS - Stewart KE7LKW (Washington State)

- Aug 05 – QNI (6) NCS WB7WHG, AD7BP, W7ANM, K7JUV, WB4SPB, KE7LJKW
- Aug 12 – QNI (6) NCS KE7LKW, WB7WHG, KI7SJE, WB4SPB, AD7BP, K7JUV
- Aug 19 – QNI (4) NCS KE7LKW, WB4SPB, AD7BP, K7JUV
- Aug 26 – QNI (4) KE7LKW, KI7SJE, AD7BP, K7JUV

NAQCC MIDWEST QRS NET (MWN)

Monday evenings 7:30 PM CDT, which is Tuesday 0030 UTC, on 7031 kHz +/-
Main NCS - Bob W0CC (Kansas) — Assisted by Dave AB9BZ

Aug 01 – No Net

Aug 08 – QNI (4) W0CC, KC9TYA, KG9DW, N9FGC

AB9BZ could copy my signal but I could not hear his signal. There was a LOT of QSB! Of note, all three stations: Mark, KC9TYA, Mike, KG9DW, and Jacob, N9FGC are all in IN. Dave, AB9BZ, is in IL. There were a couple of other stations that I was not able to copy because of weak signal strength and STRONG QSB!

Aug 15 – QNI (4) W0CC, AB9BZ, KC9TYA, KF0DQF

A lot of QRN.

Aug 22 – QNI (4) W0CC, KC9TYA, N8HWV, K0YQX

Some QSB; however, Mark, Nate and John came thru like CHAMPS. AB9BZ, Dave could copy my signal; but my ears were not as sharp as his!

Aug 29 – No Net

NAQCC EAST TEXAS QRS NET (ETN)

Monday evenings 7PM CDT, which is Tuesday 0000 UTC,
on 7066 kHz +/- (Summer) or 3566 kHz +/- (Winter)
Main NCS - Allen KA5TJS (Texas)

Aug 02 – QNI (4) NCS KA5TJS, KE5YUM, KE5YGA, N4NN

YUM was very light tonight. 439 with QSB. The other two were good copy. Some QSB and QRN. No major QRM tonight.

Aug 09 – No Net (Storms)

Aug 16 – QNI (3) NCS KA5TJS, KE5YUM, N4NN

YUM was QRP and had deep QSB on his signal tonight. NN was 589 but running 50 watts tonight. Still dry and hot in TX and AR but Allen in GA reports rain and temps in the 80's. Not much else going on.

Aug 23 – No Net (Storms)

Aug 30 – QNI (4) NCS KA5TJS, KE5YGA, N4NN, KA6J

Good signals tonight. All 579 or better. Great to hear Jim in Kyle TX again. We had TX, AR and GA.



NAQCC CHAPTERS

The North American QRP CW Club currently has seven local chapters - Western Pennsylvania, West Florida, Illowa, Downeast Maine, Long Island, Florida, and Green Swamp WCF—but we would be more than happy to expand on that list. Chapters are more or less independent local gatherings organized by NAQCC members in a geographical area and subject to a list of guidelines from the NAQCC. They provide opportunities to have fun and to promote our parallel passions of QRP and CW. If you are interested in forming a local chapter please contact Club President Steve WB4OMM.

If your chapter is planning a portable operation activity and would like to have it promoted on the club email list or in the newsletter, send an email with the subject “NAQCC Portable Operation” and with the exact wording of the announcement to Steve, at the email address listed on the last page about a week before the operation. Please be sure to include the UTC time for the event and not just the local time.

A report about your chapter activity should appear here. Please send them to KD2MX or N8XMS at the email addresses listed on the last page.

NAQCC chapters located in the United States are welcome to use the NAQCC Club call, N3AQC for their special operations. Please contact call sign trustee Please contact call sign trustee, Club VP John KK4ITX, to schedule the use of N3AQC.

NAQCC WEST FLORIDA CHAPTER



Items in this section are from the West Florida Chapter unless otherwise credited. Questions and comments should go to Ron, N9EE.

The chapter’s web site is <https://www.facebook.com/groups/967110089994401/>.

CHASSAHOWITZKA WILDLIFE MANAGEMENT AREA

August 13, 2022

Members of the HCARA went to Chassahowitzka Wildlife Management Area (park) and setup some QRP stations at their only 2 picnic table shelter. The area is over 34,000 acres, but had a small park area. The area is mostly used for hunting.



Arrived at 8:30AM, no one was there including the park ranger (hunting season is closed so no ranger, the park is over 34,000 acres and they hunt bears and boars and turkeys), but the area for our event is small, 300 x 200 ft, one shelter with 2 picnic tables. Did have 60ft pine tree with branches at the top. Wondered if could be tie rope over it, but Doug, K8QY, did it, took about 5 tries. He pulled up his 65 ft End Fed. I put up my 20ft flag pole and 20m end fed wire.

ATTENDING

Ron, N9EE

IC705 and 20m End Fed Wire with 20ft flag pole

Frank, KY4FG

Jim, K8JK

Mark, KD4ZYA

X6100, IC7100 and 20m BuddiPole Vertical

Doug, N8QY

G90 HF rig, just got last Wednesday, 65ft End Fed in 60ft tree.

Rich, KI2X

LOGS

Ron, N9EE with IC705 and 20m End Fed Wire at 20ft.

TIME	CALL	RST/MY	RST FREQ	COMMENTS
0931	W4LRB	599/339	14.051	Ben, MA, SKCC 11021S
1007	N4SS	599/?	21.021	Bryan, KY
1011	SN2B	599/599	21.028	Poland
1012	SP8N		21.029	Poland
1019	SN7Q		21.030	Poland
1025	AA3B		21.029	Joe, PA
1030	OK4M		21.048	Czech Republic
1034	N3FZ		21.0525	Bryan, MD
1149	KJ4XF	579/589	14.054	Tony, TX, SKCC 23043S
1158	WZ2J	549/559	14.0585	Vin, NJ, SKCC 13909
1207	N9EEE	449/?	14.062	Dick, WI
1213	KI6KU	559/?	14.065	Dan, CA
1223	N8EU	569/?	14.067	John, NC
1229	WA3WXR	579/339	14.039	Kim, PA, SKCC 19169S
1241	K3EW	589/439	14.051	Phil, MD SKCC 10605S
1246	AC9XS	579/339	14.052	Steve, IN SKCC 23390S



Doug, K8QY with G90 with 65 ft End Fed Wire at 60ft.

TIME	CALL	RST/MY	RST FREQ	COMMENTS
0922	KA3IRJ	57/57	14.213	PA
0948	K4YWE	57/57	14.250	AL
1030	N4XPZ	59/59	14.347	GA
1107	W3VPR	57/57	14.284	MD
1108	AB1F	57/57	14.284	MD
1235	W0KYZ	57/57	18.163	AR

15 m was hopping, so was 20m. Doug got a good work out with his new G90 rig. Mark worked with his IC7100 and getting his LDG tuner to work with the rig.



NAQCC LONG ISLAND CHAPTER



Items in this section are from the Long Island Chapter unless otherwise credited.

Questions and comments should go to Howard, WB2UZE.

Once again, a group from the Long Island CW Club braved the summer heat to set up portable operations at Sunken Meadow State Park on Long Island, NY (K-2147) on August 19, 2022.

Among the intrepid souls were Dave WA2YYL on one side of the parking lot, and a group consisting of Walter W2TE, Tom KA2D and young Ayden, Ellen KD2ZPM (a brand new general!), Karen W2ABK and her OM Bruce, Peter AA2VG, John W2XS, Rob W2ITT, and Drew N2AKJ on the other side of the parking lot.

They made 14 QSOs with Walt's KX3 into an inverted V dipole. Dave used an ICOM IC-745 into an end fed half wave sloper (pointed away from the parking lot). That explains the only DX contact made, which was between Dave and the group on the other side of the parking lot, which was via long path, I'm sure (grin).

Seriously, the band conditions were poor, with the group making 14 QSOs, Rob W2ITT making another 15 with his inverted V, and Dave WA2YYL making another 5 QSOs including one in Canada. The furthest contacts were Texas and Florida. Some DX was heard but not able to be worked. Oh well, maybe next time. Until then, 73 from LI!

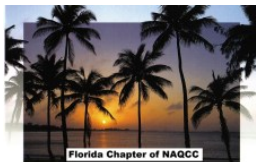


Tom KA2D and young Ayden



Ellen KD2ZPM about to get on the air with her brand new general!

NAQCC FLORIDA CHAPTER



Items in this section are from the Florida Chapter unless otherwise credited. Questions and comments should go to Nikki, KM4SBQ.

The Florida Chapter website is <http://wb4omm.com/naqcc-fl-chapter>.

NAQCC WESTERN PENNSYLVANIA CHAPTER



Items in this section are from the Western Pennsylvania Chapter unless otherwise credited. Questions and comments should go to John, K3WWP.

NAQCC DOWNEAST MAINE CHAPTER



Items in this section are from the Downeast Maine Chapter unless otherwise credited. Questions and comments should be directed to Jeff, KA1DBE.

The chapter is located in the Hancock and Washington counties area of Maine.

NAQCC ILLOWA CHAPTER



Items in this section are from the Illowa Chapter unless otherwise credited. Questions and comments should go to Tim, N9BIL.

The Illowa Chapter operates in the “Quad Cities” area of Davenport, IA / Moline, IL.

The Illowa Chapter website is at <https://sites.google.com/site/naqccillowa2/>.

NAQCC GREEN SWAMP WCF



Items in this section are from the Green Swamp WCF Chapter unless otherwise credited. Questions and comments should go to Gary N3OS.

The chapter’s website is <https://www.zaarc.org>.



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NAQCC CLUB INFORMATION

STATEMENT OF PURPOSE

Amateur radio has something for everyone. For a growing number of folks, the challenge of "doing the most with the least" makes QRP (and QRPp) CW operating the greatest thrill available in amateur radio. The North American QRP CW Club Inc. exists to promote and pursue designing, information sharing, building, and operation of low power, Morse Code enabled Amateur Radio (FCC Part 97) equipment with simple wire antennas for both emergency and personal communications purposes, an exciting facet of the hobby.

The NAQCC provides numerous opportunities for hams to operate in QRP/CW activities. For contest types we have a popular monthly 2-hour sprint that runs at relatively low CW speeds and at a fairly relaxed pace to increase code skills and experiment with different antennas. Three special sprints also take place during the year for 160-meter and QRPp (less than 1W of power) operators. For a month-long activity we offer our members a Monthly Challenge that can be anything from forming a list of words from the calls of stations worked, to making a prescribed number of contacts using home-brew gear. There is also an extensive awards program to recognize the significant QRP/CW accomplishments of our members.

We also serve as a resource for people who are just getting started in QRP and/or CW, sharing information on low power Morse operations. Our slow-speed CW nets are a great place for beginners to practice Morse code under real on-air conditions. Beginners will also find a wealth of helpful information on these web pages and we are more than willing to answer any questions about QRP, CW, and simple wire antennas that you might have. An extensive monthly newsletter is filled with useful projects and news from fellow QRPers.

A number of local NAQCC Chapters offer opportunities to get together for in person socializing and QRP/CW activities. Portable operations are especially popular with the local chapters.

Whether you are a veteran ham radio operator who is looking for a new challenge in the hobby, or a beginner who is intrigued by the possibilities of QRP/CW communication, we cordially invite you to join us. Membership is free and the benefits and fun are significant.

REPRINT POLICY

Unless otherwise stated in the article, local clubs and other ham radio organizations are free to reprint featured articles from this newsletter, provided appropriate credit is given to the North American QRP CW Club and the author of the article. If at all possible a link to the club website at <http://www.naqcc.info/> should be included.

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NOTE: These email address are not automatic links.
They are given here in graphic form to avoid harvesting by spambots.

The North American QRP CW Club Inc., is organized exclusively for scientific purposes within the meaning of Section 501(c)(3) of the Internal Revenue Code of 1986, and the Georgia Nonprofit Corporation Code to advance, promote, and pursue designing, information sharing, building, and operation of low power, Morse Code enabled Amateur Radio (FCC Part 97) equipment with simple wire antennas for both emergency and personal communications purposes. No dues or membership fees - open to any licensed radio amateur or shortwave listener (SWL) worldwide with interest in CW/QRP operation. Encouraging the use of CW and helping all hams increase CW speed and proficiency is a top club priority. Club activities are dedicated to QRP/QRPp operation, using CW and emphasize using simple wire antennas.

The North American QRP CW Club was founded in 2004 by WY3H and K3WWP and now has over 9500 members world wide. Membership is free and anyone interested in CW/QRP operating is welcome. Complete information about the NAQCC, including a membership application, activities schedule, and useful resources, can be found on our website at <http://www.naqcc.info>.

Inquires can be sent to:

Club President Steve Szabo, WB4OMM
536 Central Park Blvd
Port Orange, FL 32127 USA

