





de N1NC

December 2022

Volume 31 Number 12

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The President's Corner

Last month, I talked a little about contesting, great conditions, and getting on the air and taking advantage of the conditions. November did not disappoint!

Two weekends ago, I again travelled to K1TTT for the CQWW CW weekend, and again, conditions were fantastic, with propagation particularly good on the higher HF bands: 20, 15, and 10 meters. If you are not a fan of CW (meaning, Morse code), it might be even better! Many, many DX stations are not CW fans. This means that during a CW contest, there is less competition to converse with these stations, making it much easier for modest stations to have some real fun.

If you're curious about contesting, next weekend (December 9, 10, and 11) has one of the most fun contests of the year - the ARRL 10 meter contest.

With conditions as they are now, even stations running QRP (5 watts or less) can have some real fun in this contest.



Remember, the contest starts at 0000 UTC Saturday, or 7PM eastern time on Friday. Ten meters is mostly a daylight band, so expect things to really open up Saturday morning by 9 AM or so.

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Our November meeting was again a smashing success. Our annual QSL sort resulted in over 15,000 QSL cards being sorted and sent off to managers for final delivery to W1 hams. As a service to members, NVARC offers an outgoing mailing whereby the club picks up the costs of sending cards through the ARRL QSL Bureau. Several members brought there outgoing cards to the November meeting. Rod, WA1TAC, is our QSL manager, and he is currently gathering cards to be sent out. Contact him if you are interested in participating.

Traditionally, NVARC's December and January meetings have been more social gatherings and less "formal presentations". December is "Homebrew Night", where club members show off projects that are not 100% off-the-shelf commercial in nature. Projects could be 100% breadboards. homebrew such as designed printed circuit boards, point-to-point wiring, etc. But projects could be far more than Restorations of older equipment, kits, software, modifications, repair. If it's too big to bring in, then bring the pictures. Anything that is not 100% store bought. Bring it!

In past years, we've tried a Yankee swap at the December meeting. It works like this: Wrapped gifts are put on a table, and everyone participating picks a number at random from a hat that determines the order of picking. Each person unwraps a gift and can either keep the gift they unwrapped or swap with someone who has already has a previous gift. This continues until all the gifts have been unwrapped. At this point, the first person has the last chance to swap (because they did not have that opportunity with the first pick). Yankee swaps can be entertaining and fun. If there is interest, let me know on the club reflector, and I will get some ground rules out.

Our January meeting is "Short Subjects Night", where club members get to talk about anything

they want to. By anything, I mean that as long as it's in good taste, it's OK. We will have a laptop and projector if you want to display a PowerPoint or picture/video presentation, but "stand-up" works as well. In the past, we've had some tremendously interesting and entertaining presentations. You have a couple of months now to think about this. Please come and talk about something you are passionate about.

2023 (YIKES!) is fast approaching, and I'll talk about 2023 resolutions in next month's Signal. Until then, get on the air and enjoy the fantastic propagation conditions we are experiencing, and enjoy some fun and relaxation with your family during the holiday season.

- de Bruce, K1BG

2022 Field Day Results

Those of you who are ARRL members and receive QST (and I highly recommend membership for MANY reasons) found the results for the 2022 ARRL Field Day published in the December issue. And what a Field Day it was!



There was a total of 4,929 entries submitted from the US and Canada, with a total of 29,679 participants. This resulted in – get this - 1,274,117 total contacts! NVARC participated in class 2A –

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meaning a club or non-club group, running two transmitters. Class 2A had a total of 292 entries. So how did NVARC do? Well, club members will tell you that NVARC participates in Field Day, but we do not "compete" in Field Day. Clubs that are serious only allow their best operators to operate and squeeze every point out of the weekend. NVARC uses Field Day as an operating event, a learning experience, and an emergency preparation exercise. Experienced operators regularly give up their operating time to new or inexperienced operators who are learning what Field Day is all about.



Still, the points mean something to some people. So, here is where we were in the standings. NVARC made 1206 contacts resulting in 5332 points. Out of 292 Class 2A entries, NVARC finished 20th. Not bad for a non-serious operation! In New England, we placed 4th (clubs that finished 1, 2, and 4 overall were from New England. All of them are very serious Field Day groups). We finished first in Massachusetts, and of course, first in the Eastern Massachusetts section.

Everyone who participated appeared to have a good time. Equipment worked flawlessly, as did the generators. We succeeded in proving that in an emergency, members are prepared to come together and set up emergency stations. We succeeded in getting people who do not normally operate amateur stations to sit down and experience what it's like. We got bonus points for youth par-

ticipation – and getting newly licensed young people on-the-air.

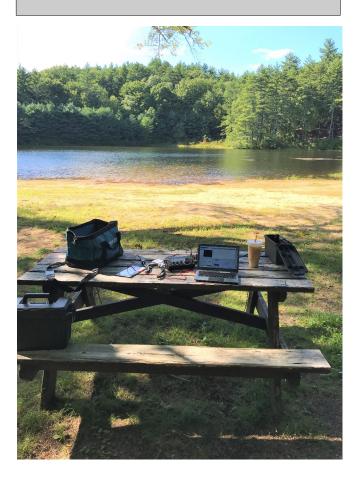
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All in all, we can be quite proud of our Field Day participation. Thanks to everyone involved. See you next year!

-de Bruce, K1BG

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CQ POTA DE KK1X



In my retirement I have been watching entirely too many YouTube videos. A lot of the videos, though, have been related to Amateur Radio, mostly in the vein of either antenna design or portable operation. A number of hams seem to spend a fair amount of time in parks working in the Parks On The Air (POTA) program. They appear to be having a lot of fun doing it, and I was looking for something new to do, so I set about, as my wife calls it, "Playing POTA".

As I have participated in several Field Day operations, often supplying the station, I didn't think setting up a portable operation would be too difficult. I just needed to supply a few more things – antennas, power, and logging.

So, I started planning. Oddly enough, I seemed to have on hand a lot of the stuff I needed. Go figure. I have links below to any items that aren't likely to be already in one's shack.

I bought a Bioenno 144Ah Lithium Iron Phosphate battery. It was expensive, but Bioenno has a superb reputation for quality. The battery is housed in a plastic ammo can from Harbor Freight, for which I 3D printed a power distribution plate. The plate sits inside the closed ammo can fused with a switch, voltmeter, USB charging outlets, and PowerPole connectors. Rather than to expose the battery to my ignorance, I bought the Bioenno charger as well for about \$30.



I already had a PAR end-fed antenna for 10-40, and a 30-foot telescoping fiberglass mast, which is handy if I'm in a parking lot without trees. I fashioned a support from a 2"x8" board and a length of pipe. A flange secures the pipe, and I park my car on the "2x8". It's pretty solid. The

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PAR antenna makes a nice sloper with this mast. I also have ham stick antennas for 15, 20, and 40 meters, and also bought a magnetic mount just large enough to keep the wind from blowing it over. It's clearly not right for mobile work, but the 20 meter ham stick works surprisingly well considering the numerous compromises.



I have a Heil headset and had adapted it to the radio. Given that I'm just rubbish at CW, I figured digital would augment SSB. There's a lot of FT8 traffic in POTA-land. So, radio control was required. After some research, I unearthed a little gem called the Digirig. Housed in a 1"x1"x2" aluminum box, it is a complete USB sound card, as well as CAT control for most radios. Cables for most common radios are available, and the design is clearly documented to allow you to build your own cables. The developer of Digirig is a ham. He gets it. I've since bought a second Digirig for my IC-7000. Digirig presents to the PC as

a "standard serial port" and a "standard sound card", which means no driver install, at least on the Windows 10 laptop I used.

Logging for SSB can be done on paper, but for WSJT-X I would need a computer anyway. Microcenter was selling a Windows 10 laptop that runs on 12V, for \$60. It's not going to mine you any Bitcoin, but it does handle WSJT-X pretty well. I don't think it's still available, but I saw a recent ad for a \$100 laptop there...

Logging for phone is done with HAMRS software, available for most recent OS versions, including smartphones. It is pretty lightweight, but has templates for POTA, SOTA, and other types of logging. And it's free. It only lacks rig control.

WSJT-X is used for FT8. Because of its decoding methods, the PC must be closely tied to "real time". FT8 alternates between Tx and Rx in 15second periods. Stations must be synchronized to allow decoding of the transmitted signal. The decoding software has a hard time if signals are off by more than a half second or so. PCs generally have really bad clocks anyway, so WSJT-X users depend heavily on internet time servers. When there's internet. I've been surprised where I've found service, and where I've not found service. Using my phone as a hot-spot is quite helpful, but some places don't have even cell phone service. What to do? I got a GPS receiver. It's a bit bigger than an Oreo and plugs into USB. The cable is long enough to reach out the car window into satellite view. Free software reads the GPS data and can update the system clock to well within the required timing for WSJT-X.

I'm not done "perfecting" the kit. I've got a hand mic on order, thinking that lugging the adapter and foot-switch is tougher if I have to hike into a property.

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I'm happy with my setup. So far I have done 26 activations in about 15 parks, making over 400 contacts.

The gear:

Elecraft KX3 Transceiver

LiFePo4 Battery

Digirig

PAR ENDFEDZ Antenna

HAMRS

WSJT-X

POTA_

GPS dongle

GPS Software

- de John, KK1X

November General Meeting



The November General Meeting was dedicated to the annual QSL sort for W1 ARRL QSL Bureau. Seventeen Hams have gathered for this miniature party where the service blends with fun. Newcomers and old timers alike had a rare

chance to appreciate the unique art of QSL cards from all over the world.



Take a glimpse of the event at

NVARC's YouTube Channel.

-de NVARC N1NC

NVARC's 2M Net

The NVARC Information Net is held Monday nights at 7:30pm, Eastern time on the 2m Pepperell repeater, N1MNX: 147.345MHz, PL: +100.

- de NVARC, N1NC

The Treasurer's Report

Income for November was \$45 in membership fees. Expenses were \$71.72 for the November meeting (QSL sort) refreshments, \$49.55 for outgoing QSL Bureau cards (June) and \$0.90 in PayPal fees leaving a net expense of \$77.17.

Current balances:

General fund \$2,677.31

Community fund \$6,628.25

As of 1 December we have 38 members who are current with their dues and 47 renewals outstanding. Renewal months are in the member

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list on www.n1nc.org in the Member's area; check yours on https://www.n1nc.org/Members/Roster or you may also email me. Thank you to those of you who mail your renewals or use PayPal without a reminder.

To pay membership dues via PayPal see the instructions in the same Members area.

If you are joining ARRL or renewing your membership please consider letting Ralph send in the paperwork for you. The Club will buy the stamp and will get a commission from ARRL. As an Special Service Club, the ARRL expects a majority of Club members to also be ARRL members. Contact Ralph for further information if you need it.

de Ralph, KD1SM

NVARC Board Meeting

Attendees:

Bruce, K1BG, John, K1JEB, Ralph, KD1SM, Vlad, W1MTI James, N8VIM,

Call to Order: 7:35pm

Vlad W1MTI has suggested modifying the look of the Monthly Signal Bulletin. It was left to the discretion of the editor Vlad W1MTI.

Jim N8VIM indicated that the YouTube Channel subscribers are increasing. It was suggested that the YouTube Channel should be advertised in the Signal.

Bruce K1BG suggested giving coffee mugs again to the guest speakers as was done in the past. There is a need to recruit additional speakers.

December general Meeting is "Homebrew Night" and the January meeting is "Short Subject Night".

From Bruce K1BG the Monday Night 2 meter NET is doing quite well. Jim N8VIM is working on the Repeater Decoder board.

Billerica Amateur Radio Society (BARS) is going to provide an Extra Class License class.

There was a complaint that the club left the Pepperell Community Building trashy. So, please pick up any trash you see and throw it out or take out what you bring in.

Adjournment: 8:19pm

- de John, K1JEB

NVARC General Meetings

NVARC General Meetings are scheduled for the third Thursday of the month at 2430 UTC (7:30pm, Eastern Time), except for July and August, when no General Meetings are held. When held, meetings are at the Pepperell Community center.

Next General Meeting

The next General meeting will be held in person at the Pepperell Community Center, 2 Hollis St, Pepperell, MA 01463 on December 15, 2022. We will hold the annual "Homebrew Night". Bring your favourite gadget. Any "homebrew" radio related project you have worked on in the past year will do.

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Calendar

December

11 CQC Great Colorado Snowshoe Run

http://www.coloradogrpclub.org/contests/snow.htm

12 4 States QRP Group Sprint

http://www.4sqrp.com/SSS/sss_rules.pdf

17/18 Stew Perry Topband Challenge

http://www.kkn.net/stew/

25 RAEM Contest

https://raem.srr.ru/rules/

26 DARC Christmas Contest

https://www.darc.de/der-club/referate/conteste/weih-nachtswettbewerb/en/

30 YOTA Contest

https://www.ham-yota.com/contest/

January

1 SARTG New Year RTTY Contest

http://www.sartg.com/contest/nyrules.htm

5 NRAU 10m Activity Contest

https://nrrlcontest.no/index.php/nrrl-contests/nrau-nac/10m/nrau-nac-10m-english-rules/278-nrau-nac-10m-english-rules.html

7 Marconi Club ARI Loano QSO Party Day

http://www.ariloano.it/marconiclub/ marconiclubday2023/regolamentomcday_ENG2023.pdf

7 ARRL Kids Day

http://www.arrl.org/kids-day

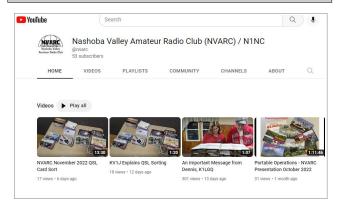
8 NRAU-Baltic Contest

https://www.nraubaltic.eu/

8 DARC 10-Meter Contest

http://www.darc.de/der-club/referate/conteste/darc-10m-contest/regeln/

Have YOU subscribed to NVARC's YouTube Channel?



How about your XYL? Your kids? Your neighbour? Your broker? Sure, they don't want to miss "an important message"!

So, here is the link: youtube.com/@nvarc

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¹"An Important Message from Dennis, K1LGQ" has gathered over 300 views in a few days after the posting on NVARC's YouTube Channel...

Have YOU Paid Your NVARC Dues?



See: http://n1nc.org/Members/Roster for your renewal month.

Sponsors







Amateur Radio Club

PO Box # 900
Pepperell Mass 01463-0900
http://www.n1nc.org/
NVARC's YouTube Channel

President: Bruce Blain, K1BG Vice President: Phil Erickson, W1PJE Secretary: John Bielefeld, K1JEB Treasurer: Ralph Swick, KD1SM

Board Members:

Sean Pearson, KC10NO, 2022-2025 Skip Youngberg, K1NKR, 2020-2023 Jim Hein, N8VIM 2021-2024

Property Master: John Griswold, KK1X Librarian: Peter Nordberg, N1ZRG N1NC Trustee: Bruce Blain, K1BG

Join NVARC! Annual membership dues are \$15; \$20 for a family.

NVARC general meetings are scheduled for the third Thursday of the month at 2330 UTC (7:30pm, Eastern Time).

NVARC thanks Medtronic, Inc for providing the teleconferencing services under their employee volunteer support program for non-profit organizations.

Contact us on the N1MNX repeater. 442.900 (+), 100Hz 147.345 (+), 100 Hz 53.890 (-), 100Hz

This newsletter is published monthly. Submissions, corrections and inquiries should be directed to the newsletter edi-

editor@n1nc.org.

Articles and graphics in most PC-compatible formats are OK.

Editor: Vladimir A. Goncharov, W1MTI

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